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*NIST Special Publication 806, 1996 Edition*

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*Standards Activities of Organizations  
in the United States*

*Robert B. Toth, Editor*

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*NIST Special Publication 806, 1996 Edition*

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# *Standards Activities of Organizations in the United States*

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Robert B. Toth, Editor

Office of Standards Services  
National Institute of Standards and Technology  
Gaithersburg, MD 20899-0001

(Supersedes NIST Spec. Publ. 806)

September 1996



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**Technology Administration**  
Mary L. Good, *Under Secretary for Technology*

**National Institute of Standards and Technology**  
Arati Prabhakar, *Director*

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## FOREWORD

The U.S. National Institute of Standards and Technology (NIST) assists the private sector and other agencies of government through research and development of better methods of measurement, determination of physical constants and properties of materials, and design of practical test procedures. We consider standards essential media for disseminating the results of the Institute's research, hence the working of the national standardization system is of vital concern to NIST. The Institute's Technology Services and its Office of Standards Services coordinate within the Federal Government and with the private sector in policy, procedural, and informational matters concerning standards and activities related to their application.

This directory is one of NIST's most popular publications. It is widely distributed in the United States and abroad. It identifies and describes U.S. public and private sector organizations that develop, publish, and revise standards, participate in those processes, identify standards, or make standards available through information centers or distribution channels. These organizations are the foundation for the U.S. standardization system, which has grown steadily since the first volume in this series was issued in 1941. Most of the standards developed by the organizations listed in this directory are included in NIST's National Center for Standards and Certification Information, and are available for reference at the Center's facility. For further information on the Center, see page 718 of this directory.

We believe that this directory will be a useful reference for all who need and use U.S. standards.

Arati Prabhakar  
Director

## ACKNOWLEDGMENTS

Every entry in this directory was carefully prepared by representatives of the participating organizations. Obviously, this directory could not have been issued without the contributions and cooperation of hundreds of staff persons in the trade associations, professional societies, government agencies, and other organizations that constitute the "standardization community." They deserve the thanks of those who worked on this project and all who use the directory.

Maureen Breitenberg ably coordinated and monitored this project for NIST's Office of Standards Services. Special thanks are due the staff of R. B. Toth Associates, who compiled this directory under contract to NIST. In particular, Mary Ellen Hinkley managed all aspects of information gathering and processing.

Robert B. Toth  
Editor

## ABSTRACT

This directory is a guide to mandatory and voluntary standards activities in the United States at the Federal level and by nongovernmental (trade associations, technical and other professional societies) organizations. It excludes proprietary (company) standards and those of state and local levels of government. Superseding the 1991 edition (NBS SP 806, "Standards Activities of Organizations in the United States"), it includes standards distributors, libraries, and information centers. It also lists organizations that no longer develop standards or have become defunct since the previous directory was issued.

More than 700 current descriptive commentaries are formatted, with subject headings to facilitate access to specific information. The main sections cover developers of formal and informal nongovernment standards; Federal agencies which develop standards; sources of standards documents and information; a subject index and related listings covering acronyms and initials, defunct bodies, and those organizations with name changes. Organizations have been included if they develop standards or contribute to the standardization process, whether voluntary or mandatory, or are sources of standards documents or information. An introductory section provides general information on Federal (including military) standards activities, a list of 20 major nongovernment standards developers, and an overview of U.S. (national) standardization activities.

Keywords: codes; government standardization activities; nongovernment standardization activities; overview of U.S. standardization activities; recommended practices; sources of standards; specifications; standardization; formal standards; informal standards; test methods





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## 1. INTRODUCTION

Standardization activities in the United States are broad, complex, and decentralized. This directory is intended to provide perspective and to serve as a source of information about the U.S. standardization system; the inputs are based on material provided by the principals.

This directory is the seventh in a series started in 1941. The first edition, NBS Miscellaneous Publication (MP) 169, "Standardization Activities of National Technical and Trade Organizations," was edited by Robert A. Martino and covered 450 organizations. The second edition, NBS MP 230, was edited by Sherman Booth and issued in 1960. The third edition, "Directory of United States Standardization Activities, NBS MP 288, was edited by Joan Hartman and issued in 1967, and the 1975 edition, NBS Special Publication 417, was edited by Sophie Chumas. This publication supersedes the 1984 and 1991 editions (SP 681 and SP 806 respectively), both of which were compiled and edited by Robert Toth.

### 1.1 SCOPE AND CRITERIA

This edition summarizes standardization activities of more than 700 organizations which, in the aggregate, comprise the U.S. standardization system. In the broadest sense, "standards" include specifications, codes, guidelines, recommended practices, grading rules, and similar documents. This directory also refers to regulatory standards developed by government agencies, but not to laws or regulations *per se*. However, many federal, state, and local regulations and codes are based on the voluntary standards of organizations listed in this directory.

The directory includes organizations that develop standards and also those that work with others to develop and use standards or that regularly comment on draft standards. Activities that develop only ethical/professional standards, or that set standards for judging animals, are not included.

This profile of U.S. standardization activities is necessarily a snapshot of a moving target. Although extensive efforts were made to be comprehensive, some organizations that conduct standardization activities may not be represented. New standards developing organizations spring up, and there are standards known only to specialists in a narrow field. The information summarized here has been derived from numerous sources. However, it may not be all-encompassing and inclusive.

In response to increasing interest and application of standards throughout the world, the directory also lists some major sources of U.S. standards outside the United States and major U.S. sources of foreign and international standards. Self-designated regional and international organizations are covered separately in a companion NIST Special Publication 767, "Directory of International and Regional Organizations Conducting Standards-Related Activities," which has 338 entries, and NIST

SP 795, "Directory of European Regional Standards-Related Organizations," which has 154 entries.

## 1.2 AN OVERVIEW

The U.S. standardization community includes: (1) government and nongovernment standards developing organizations; (2) affected interests that participate in the development and approval of standards; and (3) organizations which disseminate standards and information about standards. At the national level, the United States currently maintains about 93 000 standards in an active status. Figure 1 shows the various categories of standards developers and their output.

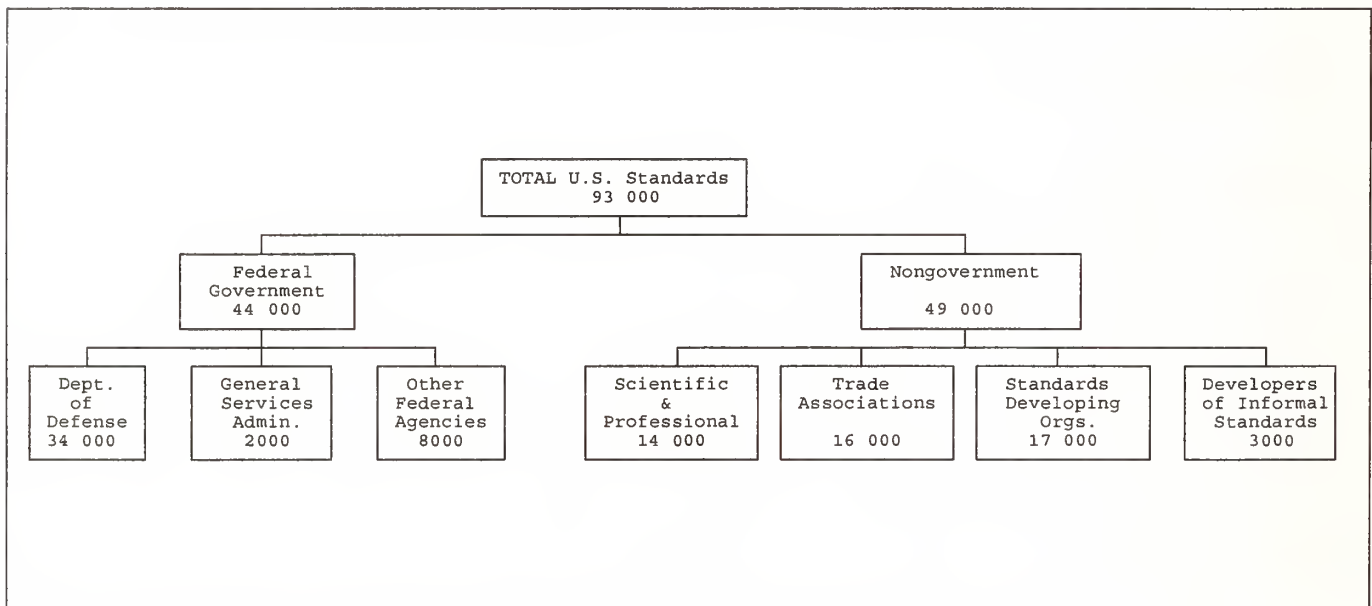


Figure 1. The estimated number of U.S. standards and their developers in 1996. \*In addition, the Federal Government has adopted 9500 nongovernmental standards.

In the past 5-year period, the total number of U.S. standards has not increased; and, for the first time, the private sector maintains more national standards than the government. Federal agencies are canceling more standards than they develop, and are also adopting nongovernment standards instead of preparing their own. The total number of Federal Government standards has decreased by 8000 in the past 5 years, and the number of adopted nongovernment standards has increased by 4600. Nongovernment standards developing organizations are adding to the overall

body of standards at a net rate averaging 3.4 percent per year. Very few voluntary standards are being canceled or inactivated.

## 20 MAJOR NONGOVERNMENT STANDARDS DEVELOPERS

	Approx. Number of Standards
Aerospace Industries Association	3000
American Association of Blood Banks	500
Am. Assoc. of State Highway and Trans. Officials	1100
Am. Conference of Govt. Industrial Hygienists	750
American National Standards Institute	1500*
American Oil Chemists Society	410
American Petroleum Institute	500
American Railway Engineers Association	400
American Society for Testing and Materials	9900
American Society of Mechanical Engineers	600
Association of American Railroads	1400
AOAC International	2100
Cosmetic, Toiletry & Fragrance Association	800
Electronic Industries Association	1300
Institute of Electrical & Electronics Engineers	680
Natl. Association of Photographic Manufacturers	475
Semiconductor Equipt. and Materials Intl.	450
Society of Automotive Engineers International	4550
Underwriters Laboratories	780
U.S. Pharmacopeial Convention	5000

/

\* These standards were developed by organizations other than ANSI and then published and copyrighted by ANSI as American National Standards.

Table 1

Significantly, this increased output can be attributed primarily to mid-sized standards developers. In 1996 the standards of the 19 major nongovernment standards developers (excluding ANSI), shown in Table 1, constitute 71 percent of the nongovernment standards database. In 1984, their standards constituted 81 percent of the total.

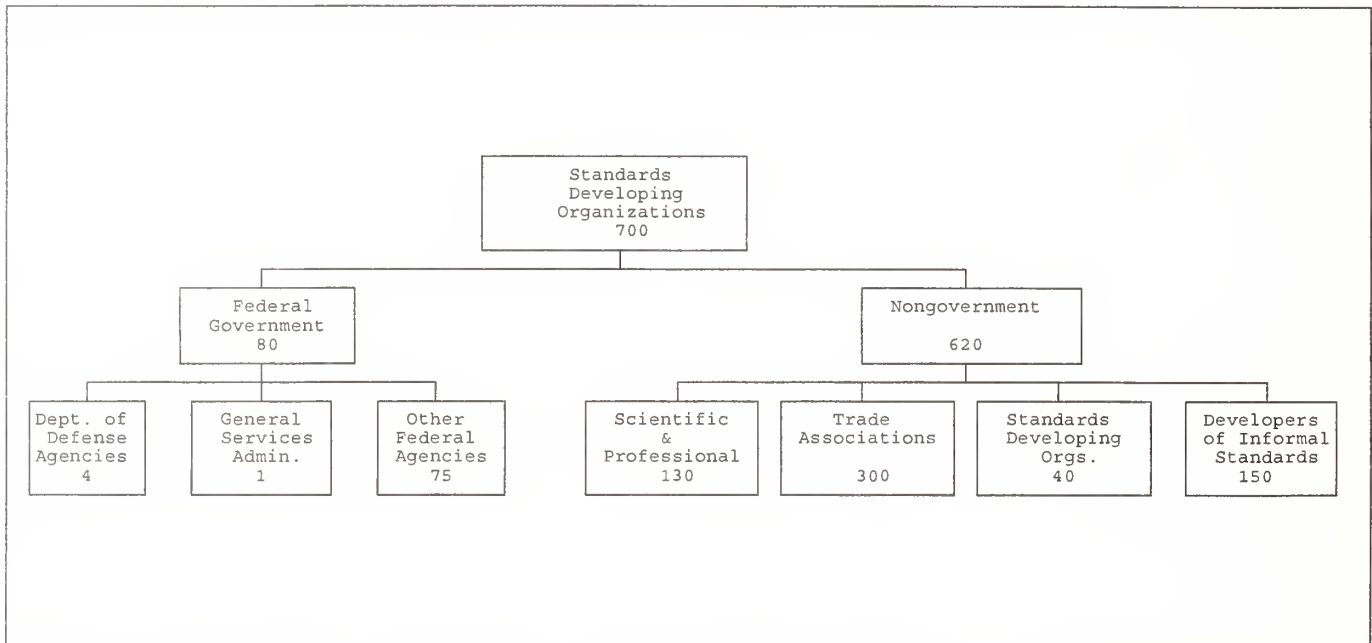


Figure 2. Number of U.S. standards developing organizations.

\*Approximately 130 of the 620 nongovernmental organizations have prepared a few standards in the past and occasionally update them, but are not actively engaged in ongoing standards development.

The number of Federal agencies developing standards has remained relatively constant. The number of private sector standards developing organizations with *active*, ongoing standards development programs has increased by about 50 organizations developing formal standards, and a whole new category of standards developers has emerged. These private sector organizations, for the most part, work outside the traditional standards development framework. Figure 2 depicts the types of nongovernmental organizations that develop national standards. These can be categorized into four groups, the first three of which prepare formal standards.

1. Scientific and Professional Societies. Some of the more than 2000 societies in this group, in addition to their professional and educational roles, also develop standards. Examples are the American Society of Mechanical Engineers, American Association of Cereal Chemists, and the Acoustical Society of America.
2. Trade Associations. These associations deal with mutual business problems in a particular industry, and promote the industry and its products. To address their objectives, many trade associations



develop standards for the products manufactured by their members, although a few concentrate on developing standards for products used by their industries. The Aerospace Industries Association and the American Petroleum Institute are two trade associations that develop standards for items used by their member companies.

3. Standards Developing Organizations. Organizations founded specifically to develop standards are often designated "standards developing organizations" (SDOs). Some confusion occurs when the four types of organizations are collectively called SDOs. The oldest SDO in the United States is the U.S. Pharmacopeial Convention. It published standards for 219 drugs in 1820. The American Society for Testing and Materials can be classified as an SDO, as can many of the organizations that serve as secretariats for ANSI accredited committees (e.g., the Alliance for Telecommunications Solutions).
4. Developers of Informal Standards. This category, listed in Section 2.2 on page 573, could be considered a subset of the group of SDOs founded specifically to develop standards, but these SDOs operate outside the traditional standards development framework. They develop or promote standards which are described as *ad hoc*, *de facto*, or consortia standards. Within Europe, and for some regional and international SDOs, the informal standards of these organizations are designated Publicly Available Specifications (PAS) if their developers made them available for public comment. The X/Open Consortium has been designated as a Recognized Submitter of PASS by ISO/IEC Joint Technical Committee 1 which enables the committee to adopt or "transpose" X/Open standards. Examples of developers of informal standards with entries in this edition are the ATM Forum, Bellcore, the Process Industry Practices Initiative (PIP), United States Council for Automotive Research (USCAR), and the Internet Engineering Task Force. Additional information and a list of more than 80 developers of informal standards is included in Section 2.2 of this directory. It is estimated that there may be as many as 150 such organizations in the United States and 50 to 70 others in the rest of the world.

### 1.3 APPLICATIONS OF STANDARDS

The number of published standards is not necessarily an absolute indicator of overall activity level or significance. Although counted as a single standard, the 12 000 page Boiler Code of the American Society of Mechanical Engineers, and any of the model building codes are not comparable to 95 percent of the standards published in the United States.

The number of available standards may not be indicative of their value to industry and commerce. Real value is realized only when standards are used. Methods have yet to be developed to measure how often, or how widely, individual standards are implemented. Standards developers report that 80 percent of their orders for individual standards are for 15 or 20 percent of the total number of published standards. Many standards are seldom used. We also know that, in spite of 5-year reviews, a substantial

portion of our standards refer to and document obsolescent technology that, while appropriate for spares and maintenance of older equipment, is no longer appropriate for new designs. Some believe that 25 to 30 percent of our national standards - both government and industry - fall into this category. Finally, some U.S. standards are redundant or overlapping. In a few areas, particularly building and construction, we often find five or six standards that, while not identical, define the functional requirements for the same type of product or material. More than 11 000 standards (12%) are applicable to building and construction. More than half of the nongovernment developers of formal standards prepare standards used in building and construction. Two hundred of the 300 trade associations which prepare standards do so exclusively for building products.

The increasing role of organizations that develop standards outside the traditional framework is not the only trend that has affected the overall number of standards and their application. Harmonization of standards used in Canada and the United States is resulting in consolidation and simplification. The outcome of these efforts is one or two standards replacing an earlier three or four Canadian and half a dozen U.S. standards. The national adoption of international standards is increasing. Ten years ago fewer than ten national adoptions (indicated by the designation ANSI/ISO) were listed in the ANSI Catalog. Today the number of adopted ISO and IEC standards is approaching 150. Many of these are based on U.S. standards which can be canceled. Others preclude the need to develop U.S. standards. National adoptions, however, are not a true indication of the extent that U.S. manufacturers and service providers are implementing international standards. Unlike many other countries, U.S. standards developers and users, particularly in high-technology industries and global markets, do not wait for the ANSI imprimatur before citing an international standard. It is estimated that more than half of ISO's and IEC's standards are implemented directly by U.S. standards developers and users.

As Figure 1 indicates, the Department of Defense (DoD) is, by far, the largest developer of standards in the United States. Moreover, the 5650 Federal Specifications and Standards and Commercial Item Descriptions (procurement specifications for off-the-shelf products) prepared by DoD and the General Services Administration (GSA) are widely used by federal and state agencies to procure many common products, and federal test methods are used in many industries. It is estimated that another 8000 standards are developed by such federal agencies as the Occupational Safety and Health Administration (OSHA), the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), National Institute of Standards and Technology (NIST), and others. Many of these are in a gray area where it is difficult to differentiate between standards and regulations.

Recent trends in DoD standards development have been toward the elimination of detailed military specifications and standards in favor of adopting nongovernment standards or developing Commercial Item Descriptions and defense performance specifications. From 1990 to 1995, DoD canceled over 6700 military specifications and standards, while adopting 2400 nongovernment standards and issuing nearly 1900 Commercial Item Descriptions for procurement of off-the-shelf products. The DoD has now adopted over 7400 nongovernment standards and published more than 4200



Commercial Item Descriptions. Other agencies are also using nongovernment standards extensively. GSA has adopted more than 800 nongovernment standards. The Department of Energy's Technical Standards Program has adopted 60 DOE standards and 800 from the private sector. It is probable that a number of federal agencies have adopted the same nongovernment standard, so the total number adopted by all federal agencies may be overstated.

#### 1.4 CHANGES SINCE 1991

The U.S. standardization community is in a period of change and, within some industrial sectors, redirection. Government contractors, particularly within the defense industry, are learning to cope as the Department of Defense implements policies that promote the use of performance specifications and nongovernment standards, canceling thousands of military standards and specifications. Private sector standards developers are stepping in to fill apparent voids. Equipment suppliers and users are working in many forums to develop standards to promote interconnectivity for telecommunications and information technology systems. A number of trade associations have instituted standardization initiatives to accommodate their members' needs for electronic data interchange (EDI) capabilities.

Nearly 50 federal and private sector organizations are included in this directory for the first time. Seventy have been deleted because they no longer have standardization programs or have merged or disbanded, and the total number of entries has dropped from approximately 750 to approximately 700. This may be because more organizations now prefer to describe their publications as guidelines or recommended practices rather than as standards, and a new class of standards is being published for general use: Interim or Draft Standards. Many organizations are responding to the needs of new technologies by developing standards that can be implemented on a trial basis prior to publication of a fully definitive, final standard.

Many organizations have added "international" to their name, and a dozen use only an acronym, so that their fields of specialization are not evident to the uninitiated. Examples include AIM USA, AOAC International, NACE International, NSF International, and SFI Foundation. A more positive trend is the increasing availability of e-mail addresses that can be used to communicate with standards developers in government and the private sector. More than 50 World-Wide Web sites are listed and each week more organizations announce that their WWW sites are on the Internet providing access to information about their standardization programs. Many make it easier to order standards by putting their catalogs on-line. The Defense Information Systems Agency and the Department of Defense Single Stock Point enable some users to download standards from the Internet. A few standards committees are developing standards on-line, but the most extensive user of the Internet for standards development and delivery is, appropriately, the Internet Engineering Task Force. Thousands of experts develop consensus positions on a range of technical issues in the transparent, open forum of the Internet.

## 1.5 COMPILATION OF INFORMATION

More than 1200 nongovernment organizations and 100 government agencies were invited to provide entries for the current directory. They included all those cited in the previous edition; organizational members of ANSI; those represented in on-line databases of standards; and organizations listed in directories of trade associations and professional societies. Information for the entries was voluntarily provided by the submitting organizations, but it was sometimes necessary to reformat or edit for uniformity. Wherever possible, information on secretariats, designations, quantities, and the availability of standards was verified by consulting ISO, IEC, and ANSI publications, as well as electronic databases of standards developers and their distributors. In some instances organizations chose not to submit entries although they are known to be standards developers. Identifying authoritative spokespersons for organizations which develop informal standards proved to be especially difficult. Follow-up mailings and telephone calls were made primarily to confirm information. Corrections were sought only in the event of obviously erroneous entries.

The major sections on nongovernment organizations and federal agencies are each preceded by a short description of mechanisms for policy development and coordination. Entries are organized in the various sections of the directory under subheadings to permit information to be found easily. Naturally, organizations with limited standards activities have fewer subheadings.

Each responding organization has determined for itself whether or not it is a "Standards Developer." A few organizations (less than 30) self-identify as Standards Developers although they neither develop nor publish standards, but in fact work within the structure of another organization. Similarly, a few organizations, many of them focal points for standards activities in their field, insist that they not be cited as Standards Developers, but as working with other organizations to develop standards. A perusal of the information included in the Standardization Activities subheading will usually clarify the actual role.

## 1.6 FUTURE UPDATES

Organizations that are not included in this directory are invited to send pertinent information to:

National Institute of Standards and Technology  
Office of Standards Services  
Bldg. 820, Room 280  
Gaithersburg, Maryland 20899  
Fax: (301) 926-2871  
e-mail: [maureen.breitenberg@nist.gov](mailto:maureen.breitenberg@nist.gov)  
WWW: <http://www.nist.gov>

Listed organizations are encouraged to keep NIST informed of changes in organizational name or address.

In the near future this directory will be available on the Internet. The Web site will include forms so that listed organizations can update their entries, and new entries can be submitted by those not yet listed. This may well be the last edition in paper of a publication that has served the standardization community for more than half a century.





## 2. NONGOVERNMENT

### 2.1 DEVELOPERS OF FORMAL AND INFORMAL STANDARDS

This section lists in alphabetical order 605 entries for trade associations, professional and technical societies, and other U.S. private sector organizations that develop standards or work with other organizations to develop standards. The information presented is intended to provide basic data, not only on the type of standards that are prepared, but some indications of the level of activity. Organizations were asked to provide information on the number of members involved in standardization, the number of staff personnel devoted to standardization programs, and secretariats that they sponsor. The individual named is directly responsible for the organization's standardization activities and should be contacted if additional information is required.

Organizations were asked whether or not they had any certification, qualification, or accreditation programs for products, laboratories, or services. In many cases it was considered just as important to indicate when there was no qualification program. Many standards developers provided information on the prefixes or other designations which identify their publications.

The keywords were provided by the listed organization, supplemented by the editor. These keywords simplify on-line search and for that reason are separated by semicolons the convention that is utilized in most search software. Keywords synopsise the areas in which the organization's standardization activities are directed and, as such, assist the directory user to find pertinent, responsible organizations more quickly.



## ABRASIVE GRAIN ASSOCIATION

J. Jeffrey Wherry, Manager

3020 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

FAX: (216) 892-1404

Founded: 1933

Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards developer since 1933.  
Ten standards published.  
Processed through ANSI.

### Standards Designation

ANSI B74.x.

### Scope

Manufacturers of natural and manufactured abrasives, i.e., silicon carbide, aluminum oxide, corundum, emery, garnet, etc., used in grinding wheels, coated abrasives and other products.

### Standardization Activities

Administered by Standards Committee and several subcommittees; participates in international standardization work, cooperating with the International Organization for Standardization (ISO), the Federation of European Producers of Abrasives (FEPA), and ANSI. Publishes ten standards including standards on density, capillarity, friability, and chemical analysis of abrasive grains. Promulgates its documents through the Grinding Wheel Institute Accredited Standards Committee B74. The Technical and Administrative Directors provide technical advice and answer queries related to the Committee's standards activities.

### Availability

Distributed directly and through ANSI.

### Keywords

abrasives; manufacturing; materials;

## ACCREDITED STANDARDS COMMITTEE X9 - FINANCIAL SERVICES

Cynthia L. Fuller, Associate Director

C/O American Bankers Association  
1120 Connecticut Avenue, NW.  
Washington, DC 20036  
(202) 663-5284  
e-mail: cfuller@aba.com

FAX: (202) 663-7554

Founded: 1984

Standards Staff: 3

Type of  
Organization

Standards Developer

Standards  
Development

33 active standards, all processed through ANSI.  
5 published technical guidelines; 1 published Draft Standard for  
Trial Use.

Standards  
Designation

X9.xx-199x (ex. X9.37-1995); ANSI X9.xx-199x.

Secretariats

Accredited Standards Committee X9 - Financial Services  
Administrator, U.S. Technical Advisory Group IS/TO 68, Banking  
and Related Services

Scope

Standardization for facilitating financial services operations.

Standardization  
Activities

More than 200 committee members participate in development  
of standards which cover PIN management, wholesale financial  
transactions, authentication and encryption, check processing  
specification including electronic check exchange and imaging,  
magnetic stripe cards, retail electronic transactions, and  
securities processing. Numerous standards are under development,  
in such areas as public key cryptography and secure remote access  
to financial databases. X9 members also vote on international  
financial industry standards developed under the International  
Organization for Standardization.

Availability

Distributed through publisher (phone (216)974-7650) and through  
ANSI.

Keywords

banking; financial services; standards; retail financial; whole-  
sale financial; computers; security;

ACCREDITING BUREAU OF HEALTH EDUCATION SCHOOLS

Carol A. Moneymaker, Executive Director

2700 South Quincy Street  
Suite 210  
Arlington, Virginia 22206  
(703) 998-1200

FAX: (703) 998-2550

Founded: 1964

Standards Staff: 9

Type of  
Organization

Accrediting Agency

<b>Certification</b>	Accredited program graduates are eligible for professional registration with American Medical Technologists Registry as medical laboratory technician (MLT) and registered medical assistants (RMA).
<b>Scope</b>	Recognized by U.S. Department of Education to accredit medical laboratory technician education programs in the private and public sector through junior college level and medical assistant programs in the private sector and allied health institutions in the private sector. Recognized by Commission on Recognition of Post Secondary Accreditation to accredit medical laboratory technician and medical assistant education programs in the private sector and institutions of allied health in the private sector.
<b>Standardization Activities</b>	Establishes criteria and standards for the administration and operation of health education institutions and specialized programs for medical laboratory technician and medical assistant education; enhances the profession through the improvement of schools, programs, and quality of graduates; provides sound business and ethical standards in the fields of health education; maintains standards and procedures consistent with the philosophies and best-known practices of other educational accrediting agencies.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Accrediting Bureau of Medical Technology Schools (1964-78) Accrediting Bureau of Medical Laboratory Schools (1968-78)
<b>Keywords</b>	accreditation; medical laboratory; dental; medical; health education; public health;
<b>ACIL</b>	Joseph F. O'Neil, Executive Director  1629 K Street NW. Washington, DC 20006 (202) 887-5872 FAX: (202) 887-0021 e-mail: acil@dce2.com  Founded: 1937 Standards Staff: 3
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards

<b>Representation</b>	Participates with others developing standard test procedures and laboratory methods, particularly the National Institute of Standards and Technology; Department of Defense; General Services Administration; Department of Transportation; Department of Labor, Occupational Safety and Health Administration; Food and Drug Administration; Department of Agriculture; Environmental Protection Agency; the Department of Energy; the American National Standards Institute and other public and private sector organizations
<b>Secretariat</b>	ANSI Z34 Committee
<b>Scope</b>	A trade association of independent scientific and engineering laboratories whose membership includes many of the leading testing and inspection firms in the United States, Mexico, Central America, Japan, Canada and Europe.
<b>Standardization Activities</b>	Promotes standards of ethics employed by independent laboratories in special fields of interest and activity including sampling, inspection, physical or nondestructive testing, and chemical analysis of raw, intermediate, and finished materials and products; research and development; the improvement of products or processes; the quality control of composition and performance; and professional consultation in various fields of scientific technology.  Does not write standards for products or materials but participates in writing test procedures and methodology in other standards writing organizations.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	American Council of Independent Laboratories (1994)
<b>Keywords</b>	laboratories; testing;

#### ACOUSTICAL SOCIETY OF AMERICA

Avril Brenig, Standards Manager

120 Wall Street, 32nd Floor  
New York, New York 10005-3993  
(212) 248-0373

FAX: (212) 248-0146

Founded: 1929

Standards Staff: 3

<b>Type of Organization</b>	Technical Society Standards Developer
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Standards Development	Standards development since 1932. Organizer of 85 working groups and 700 participants active in standards development. Over 100 active standards. Processed through ANSI. Draft standards available for review.
Standards Designation	ANSI SX.x.
Government Adoption	Some referenced by FDA
Secretariats	Four ANSI accredited standards committees: S1, Acoustics S2, Mechanical Vibration and Shock S3, Bioacoustics S12, Noise ISO/TC 108, Mechanical Vibration and Shock ISO/TC 108 SC 1, Balancing
Scope	A national society of physicists and engineers involved in the fields of electroacoustics, ultrasonics, architectural acoustics, psychological and physiological acoustics, music, noise and vibration control.
Standardization Activities	Coordinates development of standards, specifications, methods of measurement and test, and terminology in the fields of physical acoustics, including architectural acoustics, electroacoustics, sonics and ultrasonics, underwater sound, mechanical shock and vibration, psychological and physiological acoustics, including aspects of general acoustics, shock and vibration which pertain to biological safety, tolerance and comfort; and acoustical, environmental, and occupational noise. Each of the accredited standards committees (operating in accordance with procedures approved by ANSI) is responsible for developing, voting upon, and maintaining or revising its own standards. The ASA Standards Secretariat administers committee organization and activity, and provides liaison between the accredited standards committees and ANSI. After the standards have been produced and adopted by the accredited standards committees, and approved as American National Standards by ANSI, the ASA Standards Secretariat arranges for their publication and distribution.
	These four Accredited Standards Committees also provide the United States input to various international committees (IEC and IS).
Availability	Sold directly and through ANSI.

**Keywords** noise control; mechanical shock; vibration; bioacoustics; environment; acoustics;

#### ADHESIVES MANUFACTURERS ASSOCIATION

Christine Norris, Executive Director

401 N. Michigan Avenue  
Chicago, Illinois 60611  
(312) 644-6610

FAX: (312) 321-6869

Founded: 1933

Standards Staff: 8 part-time

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** ANSI

**Scope** Twenty member companies represent the major packaging adhesive manufacturing firms in the United States and twenty associate members represent supplier companies. Provides a forum for members to meet and exchange ideas for the advancement of the industry and its members, including research and development of better adhesives and applications. Sales and marketing techniques, employee health and safety, statistical analyses, and regular updates on the economic climate are other important functions.

**Standardization Activities** The Adhesives Manufacturing Association is not a standards developing organization; it works within the voluntary standards system to coordinate adhesive standards activities and act as the industry voice. Also monitors proposed regulations and standards at the federal, state, and local levels.

**Keywords** adhesives; packaging; manufacturing;

#### ADVANCED TELEVISION SYSTEMS COMMITTEE

Robert Hopkins, Executive Director

1750 K Street, NW.  
Suite 800  
Washington, DC 20006  
(202) 828-3130  
e-mail: [atsc@atsc.org](mailto:atsc@atsc.org)  
WWW: [//www.atsc.org](http://www.atsc.org)

FAX: (202) 828-3131

Founded: 1982

Standards Staff: 2

<b>Type of Organization</b>	Standards Developing Organization
<b>Standards Development</b>	Develops voluntary national standards for advanced television systems in the United States, including generation, distribution, reception, and display of improved NTSC television systems, enhanced television systems, and high definition television (HDTV) systems.
<b>Standards Designation</b>	ATSC currently has three standards: A/49 Ghost Canceling Reference Signal Standard. A/52 Digital Audio Compression Standard (AC-3). A/53 ATSC Digital Television Standard.
<b>Government Adoption</b>	ATSC Standard A/49 has been adopted by the Federal Communications Commission (FCC). ATSC Standard A/53 has been proposed for adoption by the FCC.
<b>Certification</b>	ATSC does not have a program to certify, qualify, or accredit.
<b>Scope</b>	Created by the Joint Committee for InterSociety Coordination (JCIC). Coordinates the development of voluntary national technical standards for advanced television. Makes recommendations to the United States Department of State for its use in developing positions on various standards issues that are considered by international standards organizations. Membership includes television equipment manufacturers, broadcasters, cable companies, and associated trade and professional societies.
<b>Availability</b>	ATSC standards are available on the Internet using a Web browser at <a href="http://www.atsc.org">http://www.atsc.org</a> or by anonymous ftp to <a href="ftp.atsc.org">ftp.atsc.org</a> .
<b>Formerly</b>	National Television System Committee (NTSC)
<b>Keywords</b>	advanced television; ATV; communications; digital television; electronics; high definition television; HDTV; television;

#### ADVISORY COMMISSION ON TEXTBOOK SPECIFICATIONS

Stephen P. Snyder, Administrative Director

45 William Street  
Suite 245  
Wellesley, Massachusetts 02181  
(617) 239-0103

Type of Organization	Advisory Commission Standards Developer
Government Adoption	ACTS standards are applied by most states for textbook purchases.
Scope	A federation of three organizations comprised of representation from the Association of American Publishers, Book Manufacturers Institute, and the National Association of State Textbook Administrators.
Standardization Activities	Developed the Manufacturing Standards and Specifications for Textbooks, which establish quality standards for paper, printing, binding, and related details. These standards are intended as a guide to aid manufacturers, publishers, textbook administrators, and the general public. The Technical-Administrative Director profiles technical advice and answers queries related to the Commission's standards activities.
Availability	Distributed directly.
Keywords	publishing; textbooks; education;

#### AERONAUTICAL RADIO, INC.

Daniel A. Martine, Director Avionics Engineering

2551 Rica Road  
Annapolis, Maryland 21401  
(301) 266-4111 FAX: (410) 266-4040

Founded: 1929 Standards Staff: 6

Type of Organization	Service Provider Standards Developer
Standards Development	250 Form, Fit, and Function (performance) standards describe airborne electronic equipment for transport aircraft. Draft standards and related reports available upon request. None processed through ANSI.
Standards Designation	ARINC Equipment Characteristics (specific equipment). ARINC Standards (basic system elements). ARINC Reports (guidance material).
Certification	No certification, qualification, or accreditation programs.
Secretariats	Airlines Electronic Engineering Committee (AEEC).
Scope	A wholly owned subsidiary of ARINC Incorporated, which is owned by major air transport operators. Provides telecommunications ser-

vices without discrimination to all users of the airspace within the United States. Provides planning and coordination of the users' telecommunications needs with participation by all elements of aviation.

**Standardization  
Activities**

ARINC's voluntary standardization activities are conducted by the EEC, chaired by D.A. Martinec, Director of ARINC Avionics Engineering Department. AEEC comprises user specialists from United States, European and Pacific basin airlines, general aviation, U.S. Air Force and airline associations. The voluntary standards are generally drafted by a subcommittee comprised of users, equipment and airframe manufacturers, regulatory agencies and other interested parties. AEEC supervises the subcommittee work and adopts completed documents when appropriate.

**Availability**

Paper copies are available directly; microfilm from IS.

**Keywords**

avionics; navigation; surveillance; air-traffic-control; aviation; transportation; electronics; communication;

**AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA**

Bruce L. Mahone, Manager, Standards Programs

1250 Eye Street, NW  
Washington, DC 20005

(202) 371-8462

FAX: (202) 371-8470

e-mail: aia@millkern.com

Founded: 1919

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1938.  
130 members participating in standards activities.  
3000 standards, including 140 metric.  
None processed through ANSI.  
Draft standards available for review.

**Standards  
Designation**

NAS, National Aerospace Standard.  
NA, Metric NAS.

**Government  
Adoption**

The Department of Defense has adopted nearly 700 National Aerospace Standards (NAS's).



<b>Certification</b>	No certification, qualification, or accreditation programs.
<b>Secretariats</b>	ISO/TC 20 Aircraft and Space Vehicles. International Coordinating Council of Aerospace Industries Associations, industry interface with the International Civil Aviation Organization. American National Metric Council, Aerospace Sector Committee.
<b>Scope</b>	A national trade association representing United States companies engaged in research, development, and manufacture of such aerospace systems as aircraft, missiles, spacecraft, and space launch vehicles; propulsion, guidance, and control systems for flight vehicles; and a variety of airborne and ground-based equipment essential to the operation of flight vehicles. Functions on national and international levels, representing its membership in a wide range of technological and other relationships with government agencies and the public.
<b>Standardization Activities</b>	<p>Standardization activities are directed toward fulfilling user-defined requirements of the industry and its customers. A close working alliance exists with the Department of Defense, National Aeronautics and Space Administration, and other agencies and industry organizations. This liaison involves direct participation of government representatives in meetings and activities of the association's primary standards developing body, the National Aerospace Standards Committee. Technical input is solicited from all affected interests. Committees also review and make recommendations on government standards documents and participate in standards programs of ANSI, SAE, ASME, DoD, DoC, and FAA.</p> <p>NAS's are used worldwide in high stress environments. They are applied on all types of aerospace and other high-technology systems, as well as critical non-aerospace applications, such as rapid transit rail cars, amusement park rides, high speed diesel engines, and racing cars. The NAS series is best known for its high strength, precision fasteners, which include bolts, screws, nuts, and rivets of all types in inch (NAS) and metric (NA) series. Other NAS's define high pressure hose, electrical connectors, splices and terminations, rod end bearings, and many other types of hardware and components.</p> <p>Nearly 100 of NAS's specify requirements for manufacturing equipment used by aerospace and other industries, including numerically controlled (NC) and computer aided manufacturing (CAM) machine tools, NC welding and fabrication equipment. One of the first</p>

standards for an industrial robot was released as an NAS in 1982. NAS's have also been developed for airport planning, hazardous material management, air-worthiness requirements of cargo containers, flight testing, propellants, packaging, and other needs of the aerospace community.

**Availability** Distributed through IHS, ATP, Global, U.C..

**Formerly** Aeronautical Chamber of Commerce  
Aircraft Industries Association (1945)  
Aerospace Industries Association (1959)

**Keywords** aerospace; transportation; defense; testing; high-technology; engineering; manufacturing; fasteners; metric;

#### AGRICULTURAL RETAILERS ASSOCIATION

Paul E. Kindinger, Executive Vice President

11701 Borman Drive  
St. Louis, Missouri 63146  
(314) 567-6655 FAX: (314) 567-6808  
Founded: 1955 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1974.  
4 active standards, all processed through ANSI.

**Scope** A national trade association representing the fluid fertilizer industry worldwide. Consists of 950 member companies in the United States and 16 foreign countries including retail fertilizer dealerships, fertilizer manufacturers, equipment manufacturers, and distributor/jobbers. Serves its membership through support programs in research, technical services, education, legislative action, public relations, and publication services.

**Standardization Activities** Develops guidelines for regulatory authorities writing their own regulations. Assists individuals working with equipment and materials covered by the standards.

**Availability** Sold directly and through ANSI.

Formerly	National Fertilizer Solutions Association (1992)
Keywords	fertilizer; nitrogen; phosphoric acid; storage; safety; agriculture;
AIM USA	
	Larry W. Roberts, President and CEO
	634 Alpha Drive Pittsburgh, Pennsylvania 15238-2802 (412) 963-8588 FAX: (412) 963-8753 e-mail: adc@aimusa.org
	Founded: 1972 Standards Staff: 4
Type of Organization	Trade Association Standards Developer
Standards Development	Since 1987 has developed standards for automatic data collection including bar coding, and magnetic strip. 160 Member Companies; participate in AIM, ANSI, government, industry trade association, and inter-industry standards activities. AIM is approved to use the ANSI canvass review method.
Standards Designation	AIM.
Government Adoption	All nine Uniform Symbology Specifications.
Certification	Film Masters Manufacturer Certification (manufacturers of bar code film masters for mass printing).
Scope	A national trade association of companies involved in the manufacture or integration of automatic data and collection and identification hardware, software, supplies, services and systems for industrial, commercial, and government applications. Technologies represented include bar code, radio frequency identification, wireless data communications, magnetic stripe, vision systems, biometrics, and OCR.
Standardization Activities	Current activities include standardization of bar code symbols, some aspects of magnetic stripe media measurements (magnetic properties) and specification of immunity to magnetic interference, and creation of a standard for radio frequency identification of companion animals.
Availability	Distributed directly.

**Formerly** Automatic Identification Manufacturers (1991)

**Keywords** automatic data collection; automatic identification; bar codes; magnetic stripe; RFID; wireless; data communication; biometrics; OCR;

#### **AIR AND WASTE MANAGEMENT ASSOCIATION**

John A. Thorner, Executive Director

P.O. Box 2861  
Pittsburgh, Pennsylvania 15230  
(412) 232-3444 FAX: (412) 232-3450

Founded: 1907

**Type of Organization** Technical Society  
Works through other organizations to develop standards

**Representation** ANSI Committee Z-21, Subcommittee on Standards for Domestic Gas-Fired Incinerators; ANSI Z-105, Air Cleaning Equipment Committee; ANSI Z-91, Committee of Installation Standards for Oil Burners and Oil Burning Equipment; ANSI Z-228, Incinerator Committee; International Organization for Standardization; Technical Committee ISO/TC 146; and Air Purity Intersociety Committee (Manual of Methods of Ambient Air Sampling Analysis).

**Scope** A voluntary, cooperative, nonprofit, technical organization devoted to air pollution control and waste management. Membership of over 16 000 is composed of engineers, scientists, enforcement officials, industrial organizations, manufacturers of control equipment and instrumentation, scientific and educational institutions, and consultants.

**Standardization Activities** Contributes to standards development through representation on various committees of standards setting organizations.

**Keywords** air pollution; environment; waste management;

#### **AIR CONDITIONING AND REFRIGERATION INSTITUTE**

Mark Menzer, Vice President of Engineering and Research

4301 N. Fairfax Drive, Suite 425  
Arlington, Virginia 22203  
(703) 524-8800 FAX: (703) 528-3816  
WNW: <http://www.ari.org>

Founded: 1953 Standards Staff: 10

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since its formation in 1953. 150 members participate in standards activities. Over 50 active standards processed through ANSI. Draft standards available for review; interested parties are invited to participate in standards development.
Standards Designation	ARI prefix.
Government Adoption	Some government agencies recommend purchase of protested according to specific ARI Standards and/or ARI certified products.
Certification	Seventeen certification programs. Product performance certified by manufacturer, verified by ARI through an independent laboratory.
Secretariats	Chairmanship U.S. TAG ISO/TC 86, Refrigeration; Chairman, IEC/TC 61D Secretariat, ISO TC 86/SC 6, Air-conditioning and heat pump units.
Scope	Trade association of manufacturers of air conditioning, heating, commercial and industrial refrigeration, excluding room air conditioners, household refrigerators and freezers, portable humidifiers and dehumidifiers.
Standardization Activities	<p>Activities of ARI include: Equipment standards pertaining to physical and operating characteristics of items and equipment; Testing standards procedures for testing equipment in order to determine performance and operating characteristics; Rating standards containing provisions for converting data into general statements of capacity and performance which can be applied to a series of production items; Application standards specifying acceptable installation criteria, including initial selection of equipment.</p> <p>Standards issued cover: unitary air-conditioning equipment and heat pumps, air-cooling and air-heating coils, forced circulation, free-delivery air-coolers for refrigeration, central station air-handling units, room air-induction units, centrifugal liquid-chilling packages, reciprocation chilling packages, liquid line driers, self-contained mechanically-refrigerated drinking water coolers, transport refrigeration units, and sound rating and application standards. ARI also has an International Standards Engineer to handle international standards activities.</p>



<b>Availability</b>	Distributed directly and through IHS and Global.
<b>Formerly</b>	Refrigeration Equipment Manufacturers Association (REMA) Air-Conditioning and Refrigeration Machinery Association (ACRMA)
<b>Keywords</b>	air-conditioning; refrigeration; heat pumps; water coolers; sound; cooling coils; heating coils; air handling; building;

#### AIR CONDITIONING CONTRACTORS OF AMERICA

James P. Norris, Executive Vice President

1712 New Hampshire Avenue, NW  
Washington, DC 20036  
(202) 483-9370 FAX: (202) 234-4721  
e-mail: accaadmin@acca.org

Founded: 1969 Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1960. 50 members involved in standards development. Five standards published. None processed through ANSI.
<b>Government Adoption</b>	HUD, FHA, EPA
<b>Scope</b>	An organization of heating, air conditioning, and refrigeration contractors, representing such contractors throughout the United States and in a limited number of foreign countries. Provides management training, TQM training, HVAC system design training, industry relations and government relations services for its members.
<b>Standardization Activities</b>	Develops procedures and standards for residential and commercial heating and air conditioning system design, load calculation, and equipment selection. Standards specifically prepared for use by non-engineering design personnel, although used by others. Participates in ANSI Committee Z21 and various ASHRAE committees. Provides EPA-approved certification programs relating to recovery, recycling, and reclamation of CPCs.



Availability	Sold directly.
Formerly	Air Conditioning and Refrigeration Contractors of America National Warm Air Heating and Air Conditioning Association (Merged in 1969) National Environmental Systems Contractors Association (formed by Merger, 1969) Current name adopted 1978
Keywords	air-conditioning; heating; refrigeration; air handling; building;

#### AIR DISTRIBUTION INSTITUTE

	Patricia H. Keating, General Manager
	4415 West Harrison Street Suite 242-C Hillside, Illinois 60162 (708) 449-2933 FAX: (708) 449-0837
	Founded: 1947 Standards Staff: 3
Type of Organization	Trade Association Standards Developer
Standards Development	Participated in the development and updating of Simplified Practice Recommendation R207 since 1947.
Scope	A national trade association representing United States companies engaged in research, development, and manufacture of air distribution equipment, such as pipe, duct, and fittings for warm air heating and air conditioning, for use in residential single and multi-family dwellings.
Standardization Activities	Develops production, distribution, and use standards for pipe, duct, and fitting for warm-air heating and air conditioning. Produces a numerical data system for identification of products as manufactured by its members, in concert with North American Heating and Air Conditioning Wholesalers. Currently updating simplified practices and recommendations.
Availability	Distributed directly.
Keywords	air handling;

## AIR MOVEMENT AND CONTROL ASSOCIATION

Peter N. Hanly, Executive Vice President

30 West University Drive  
Arlington Heights, Illinois 60004  
(708) 394-0150 FAX: (708) 253-0088  
e-mail: amca@delphi.com.

Founded: 1917

Standards Staff: 22

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards developer since 1960.  
236 members participating in standards activities.  
29 active standards.  
2 processed through ANSI.  
Draft standards available for review.  
ANSI accredited standard setting body.

### Standards Designation

AMCA prefix.

### Certification

Products which have been performance rated in accordance with AMCA standards are eligible to be licensed under the Certified Rating Program and are identified by the display of the AMCA Certified Ratings Seal.

### Secretariats

ANSI/TAG for ISO/TC 117 since 1988.

### Scope

An international trade association of manufacturers of fans, louver, and dampers used in industrial, commercial, residential, and institutional air handling systems. Includes more than 236 manufacturers in the USA and Canada and some 50 countries overseas. Promotes and furthers the interests of the public and manufacturers of air moving and control devices throughout the world. Promotes the use of voluntary standards and technical documents to help purchasers, specifiers, and users with selection, application, and safe and efficient use of those products.

### Standardization Activities

Aims at the development of accurate and reliable testing procedures which are adopted as standards and used as a basis for rating the industry's products. Adopts standards to measure the performance of all air moving devices and the sound power of this equipment, in addition to air curtains and industrial ceiling fans. These include relating pressure drop and/or water penetration to the air flow rate of louvers, dampers, and shutters; leakage rate of dampers at a given pressure difference. Other technical standards cover a wide variety of subjects including nomenclature, drive arrangements, sizes, classification for spark resistant construction, operating limits for centrifugal fans, and inlet box positions for centrifugal fans.

Works closely with ASHRAE. Developed "Laboratory Methods of Testing Fans for Rating," a joint standard with ASHRAE. Works with ISO/TC 117 to develop an international standard for air performance testing. Review and makes recommendations on standards and documents of ASHRAE, ASME, ISO, NFPA, and UL.

Availability	Sold directly. Joint ASHRAE standards also available through ASHRAE.
Formerly	National Association of Fan Manufacturers (1955) The Power Fan Manufacturers' Association (1955) Industrial Unit Heater Association (1955) Home Ventilation Institute (Merged 1984)
Keywords	air curtain; blower; damper; fan; louver; shutters; noise control; air handling; building; residential fans;

#### AIR TRANSPORT ASSOCIATION OF AMERICA

James Landry, President

1709 New York Avenue, NW.  
Washington, DC 20005  
(202) 626-4000

FAX: (202) 862-0570

Founded: 1936

Standards Staff: 2

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

32 members participate in standards development.

Standards  
Designation

ATA prefix.  
MSG-3 Airline Manufacturers Maintenance Program Planning Document.  
WATOG World Airline Technical Operations Glossary.  
ATA/IATA Interline Communications Manual.  
S2000 Specification.

Secretariats

ATA provides the secretariat for all of the above standards except the ATA/IATA Interline Communications Manual, which is provided by the IATA.

<b>Scope</b>	A national trade association for 30 United States scheduled air carriers and two Canadian scheduled air carriers which are associate members. Provides services in operations, technical, traffic, government affairs, and finance fields. Functions on national and international levels, representing its membership before government bodies, the public, and associated industries.
<b>Standardization Activities</b>	Develops and maintains specifications and guidelines for use by airlines and suppliers in maintenance, supply, communications, and other programs. Primarily directed toward meeting the needs of airlines and those organizations, both public and commercial, which interface with the scheduled air carriers. Standards development requires national and international coordination between user airlines and suppliers through the ATA committee structure.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	transportation; communications; maintenance; aviation;

#### AIRCRAFT OWNERS AND PILOTS ASSOCIATION

<b>Type of Organization</b>	<p>Steven J. Brown, Senior Vice President</p> <p>Government and Technical Affairs Division  421 Aviation Way  Frederick, Maryland 21701  (301) 695-2000                      FAX: (301) 695-2375</p> <p>Founded: 1939                      Standards Staff: 1</p>
<b>Scope</b>	More than 40 000 pilots and aircraft owners interested in making flying safer, more economical, and enjoyable.
<b>Standardization Activities</b>	Participates in activities of the Radio Technical Commission for Aeronautics which develops Minimum Operational Performance Standards (MOPS) for airborne electronic devices and systems. MOPS are used by the Federal Aviation Administration (FAA) and others to standardize the function of devices and systems used in the National Airspace System. Participates with other organizations whose activities affect pilots.
<b>Keywords</b>	aviation; avionics; airborne electronics; transportation;

## ALLIANCE FOR TELECOMMUNICATIONS INDUSTRY SOLUTIONS

O.J. Gusella, Executive Director

1200 G Street, NW

Suite 500

Washington, DC 20005

(202) 434-8830

FAX: (202) 393-5453

e-mail: gus.gusella@1.org

WNW: <http://www.t1.org>

Founded: 1983

Standards Staff: 23

### Type of Organization

Sponsoring organization for accredited standards  
developing committees

### Representation

The Alliance for Telecommunications Industry Solutions represents the member companies on American National Standards Boards, Councils and Committees such as the Construction Standards, Information Systems Standards, and Electrical Equipment Standards Boards. ATIS also represents the member companies to American National Standards Institute accredited organizations that use the canvass method of approval.

### Standards Development

Committee T1 - Telecommunications first started developing Standards in 1984. Over 1000 representatives from various interest categories comprise the membership. Included are exchange and interexchange carriers, manufacturers, enhanced service providers, user groups, professional associations and government agencies.

Committee T1 - Telecommunications has 265 active standards and is completing new standards at the rate of approximately six per month. All of Committee T1's standards output are processed through ANSI for designation as American National Standards.

Draft standards are available for review during the ANSI BSR-8 process through the Committee T1 Secretariat of the Alliance for Telecommunications Industry Solutions.

### Standards Designation

Committee T1 - Telecommunications Standards are designated ANSI T1.xxx

### Government Adoption

Committee T1 - Telecommunications Standards are voluntary. To date none has been adopted by regulatory or administrative agencies. Many of T1's standards have been referenced in Procurement Documents, however, with wording such as "--values must meet or exceed those specified in ANSI T1.xxx."



<b>Certification</b>	ATIS does not sponsor programs certifying products or personnel.
<b>Secretariats</b>	ATIS provides secretariat support to its sponsored accredited committees T1 - Telecommunications, 05, Wood Poles and Wood Products, and its other sponsored forums and committees. These include the: SONET Inter-operability Forum (joined ATIS 8/95), Carrier Liaison Committee (CLC), Electronic Communications Service Provider Committee (ECSPC), Information Industry Liaison Committee (IILC), Network Reliability Steering Committee (NRSC), Protection Engineers Group (PEG), Telecommunications Industry Forum (TCIF).
<b>Scope</b>	ATIS actively promotes the timely resolution of national and international issues involving telecommunications standards and operations guidelines. Further, ATIS initiates and maintains open industry forums to address technical and operational issues affecting the nation's telecommunications facilities and services and the development of innovative technologies. ATIS is also an information resource to its members, the forum participants, federal and state agencies and other interested parties.
<b>Standardization Activities</b>	<p>Committee T1 - Telecommunications develops American National Standards regarding interconnection and interoperability of telecommunications networks at interfaces with end user systems, carriers, information and enhanced services providers and customer premises equipment. Additionally, T1 is responsible for contributing a large quantity of technical material to the Department of State's U.S. National process for adoption as official U.S. contribution's to the International Telecommunications Union.</p> <p>Committee 05, Wood Poles and Wood Products, develop American National Standards regarding wood poles, cross-arms, and laminated wood products used in outside plant applications in the telecommunications industry.</p>
<b>Availability</b>	Distributed through ANSI.
<b>Formerly</b>	Exchange Carriers Standards Association (ECSA), 1993
<b>Keywords</b>	telecommunications; interfaces; poles;



## ALLIANCE OF AMERICAN INSURERS

Rodger S. Lawson, Ph.D., President

1501 Woodfield Road  
Suite 400 West  
Schaumburg, Illinois 60173-4980  
(708) 330-8500 FAX: (708) 330-8602

Founded: 1922 Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to support standards development
Representation	50 Representatives serving on 100 standards committees of ANSI, NFPA, ASTM, and ASME.
Scope	A membership organization of 244 property/casualty insurers addressing the spectrum of insurance related issues.
Standardization Activities	Financially supports, through ANSI and NFPA, the consensus development of safety and health standards, as well as provides technical representatives to assist in formulating standards. To maximize the usefulness of the standards alliance, representatives urge performance standards where practicable. Standards are used in training seminars and in evaluating hazards and risks.
Formerly	American Mutual Insurance Alliance National Association of Mutual Casualty Companies and Alliance of American Insurers
Keywords	insurance; loss control; fire protection; safety; industrial hygiene;

## ALUMINUM ASSOCIATION

David N. Parker, President

900 19th Street, NW.  
Washington, DC 20006  
(202) 862-5138 FAX: (202) 862-5164

Founded: 1933 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
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<b>Standards Development</b>	7 active standards. Processed through ANSI.
<b>Certification</b>	No certification, qualification, or accreditation programs.
<b>Secretariats</b>	ANSI Standards Committee H35 on Aluminum and Aluminum Alloys.
<b>Scope</b>	<p>Serves the public as a source of noncommercial, industry wide information on aluminum and the aluminum industry. Membership embraces producers of primary ingot, sheet, and plate; and leading extruders, foundries, secondary smelters, forging firms, and producers of aluminum electrical conductors. Represents virtually all United States primary aluminum production and 85 percent of semifabricated aluminum product shipments.</p> <p>Functions include developing, publishing, and distributing technical data, collecting and publishing industry statistics, and conducting school programs and industry seminars.</p>
<b>Standardization Activities</b>	Standards of the association are the basis for aluminum and aluminum alloy products for the majority of government, American Society for Testing and Materials, company, and other specifications. Specific publications include: Aluminum Standards and Data (published biennially), Drafting Standards - Aluminum Extruded and Tubular Products, Designation System for Aluminum Finishes, Welding Aluminum: Theory and Practice; Aluminum Design Manual, and Standards for Aluminum Standard Permanent Mold Castings.
<b>Availability</b>	Directly through ANSI.
<b>Keywords</b>	aluminum; alloys; metallurgy; materials;

#### AMERICAN ACADEMY OF PEDIATRICS

Joe M. Sanders, Jr., M.D., Executive Director

141 Northwest Point Boulevard  
Elk Grove Village, Illinois 60007  
(708) 228-5005 FAX: (708) 228-5097

Founded: 1930 Standards Staff: 4

<b>Type of Organization</b>	Professional Society Health Care Guidelines Development
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Scope	The American Academy of Pediatrics is committed to the attainment of optimal physical, mental, and social health for all infants, children, adolescents, and young adults. To this end, the 49 000 members of the Academy dedicate their efforts and resources.
Standardization Activities	The AAP publishes statements and manuals to help health professionals in their treatment of children. These recommendations have been used by regulatory agencies to establish guidelines for pediatric care. These pertain to perinatal care, pediatric nutrition, out-of-home day care, and treatment of infectious diseases, guidelines for health supervision, accident and poison prevention, school health, sports medicine, drug therapies and toxicities, and environmental hazards.
Availability	Distributed directly.
Keywords	children; guidelines; perinatal care; general health care;

**AMERICAN ALLIANCE FOR HEALTH, PHYSICAL EDUCATION, RECREATION AND DANCE**

A. Gilson Brown, Executive Vice President

1900 Association Drive  
Reston, Virginia 22091

(703) 476-3400

FAX: (703) 476-9527

e-mail: evp@aahperd.org.

Founded: 1885

Standards Staff: 5

Type of Organization	Professional Society Standards Developer
Certification	Certification programs are implemented at the state level through activities of AAHPERD members. Professional preparation programs in colleges are developed using AAHPERD standards.
Scope	A voluntary professional organization for education in the field of recreation and dance. Promotes the improvement of education through such professional services as consultation, periodicals and special publications, leadership development, determination of standards, public information, and research.
Standardization Activities	Standards are national in scope and are promoted through the education of teachers and professionals in allied fields. Publishes over 30 books and pamphlets containing guidelines and standards. With funding from the Department of Health, Education and Welfare, prepared Guideline for Professional Preparation for Personnel Involved in Physical Education and Recreation

for the Handicapped. Cooperates with other organizations such as the Association for the Advancement of Health Education, National Association for Sport and Physical Education, and the American Association for Leisure and Recreation.

**Keywords** physical education; health care; recreation; dance; physically handicapped;

#### **AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION**

Carl Wagus, Technical Director

1540 E. Dundee Road, Suite 310

Suite 118

Palatine, IL 60067-8321

(708) 202-1350

FAX: (708) 202-1480

Founded: 1936

Standards Staff: 4

**Type of Organization** Trade Association  
Standards Developer

**Standards Designation** Standards developer since 1936. Over 200 member companies participate internally in standards creation. ANSI standards are canvassed to hundreds of nonmember organizations, companies and individuals. AAMA currently has 43 standards, four of which are ANSI/AAMA standards.

**Standards Designation** ANSI/AAMA prefix (e.g., ANSI/AAMA 101-93), or AAMA prefix (e.g., AAMA 1701.2-1995).

**Government Adoption** ANSI/AAMA standards referenced by HUD for both conventional construction and for mobile home/manufactured housing. ANSI/AAMA standards are also referenced in the ICBO Uniform Building Code, BOCA National Code, SBCCI Standard Building Code and CABO One and Two Family Dwelling Code.

**Certification** Certification programs for: aluminum and vinyl windows and doors; storm windows; storm doors; windows, egress windows and swing doors used in manufactured housing; vinyl extrusions used in windows and doors.

**Secretariats** None

**Scope** AAMA is a trade association of approximately 200 firms engaged in the manufacture and sale of architectural building components.

These include windows, sliding glass doors, storm windows and doors, curtain walls, store fronts, skylights, residential siding, and related products. AAMA activities include developing standards, certification programs, specifications and guidelines for architects and specifiers; encouraging research and development of new or improved products; and representing the interests of the architectural building products industry to code and regulatory bodies.

**Standardization  
Activities**

AAMA standards are developed by committees and approved by consensus ballot to the entire membership. ANSI/AAMA standards are created by the same process, but are then canvassed to outside companies and individuals following ANSI procedures. AAMA certifies products to the AAMA and ANSI/AAMA standards, requiring testing conducted by independent laboratories accredited by AAMA and validated through periodic in-plant inspection of production. AAMA's certification programs are monitored and accredited by ANSI.

**Availability**

AAMA standards are available only directly through AAMA. ANSI/AAMA standards are available from AAMA or from ANSI.

**Keywords**

aluminum; vinyl; windows; doors; curtain walls; store fronts; skylights; siding; building; mobile home; manufactured housing;

**AMERICAN ASSOCIATION FOR CLINICAL CHEMISTRY**

Richard G. Flaherty, Executive Vice President

2101 L Street, NW  
Suite 202  
Washington, DC 20037  
(202) 857-0717

FAX: (202) 887-5093

Founded: 1948

**Type of  
Organization**

Scientific/Professional Society  
Works through other organizations to develop standards

**Scope**

A nonprofit organization of professional chemists who specialize in clinical chemistry.

**Standardization  
Activities**

The Standards Committee carries out background development of standard methodology and materials, and collaborates closely with the International Federation of Clinical Chemistry and the National Committee on Clinical Laboratory Standards and the National Institutes of Health. Maintains close alliance with the clinical laboratory programs of the U.S. National Institute of Standards and Technology in developing specifications for new standard reference materials, and with the Centers for Disease



Control and Prevention and with the Food and Drug Administration in evaluating methods and performance in the field. Methods and recommendations are published in the journal, Clinical Chemistry, or in the book series, Standard Methods in Clinical Chemistry.

**Formerly**

The American Association of Clinical Chemists (1975)

**Keywords**

clinical chemistry; laboratory testing;

**AMERICAN ASSOCIATION FOR LABORATORY ACCREDITATION**

Peter Unger, President

656 Quince Orchard Road, Suite 620  
Gaithersburg, Maryland 20878-1409  
(301) 670-1377 FAX: (301) 869-1495

Founded: 1978

**Type of  
Organization**

Scientific Organization  
Accreditation, Registration, Certification Body

**Certification**

Accredits laboratories on a voluntary basis to ISO Guide 25. Accreditation is renewed on a two-year interval, with annual review documentation. Registers reference material supplies and laboratories to ISO 9000 and certifies reference materials. 729 accreditation actions in 41 states, Korea, Italy, Mexico, Switzerland, Taiwan and Canada in 11 fields of testing.

**Scope**

Accreditation for testing laboratories and/or inspection agencies on the basis of technical competence. Membership available to individuals, educational, scientific, engineering or technical society, governmental, corporations or trade associations. Currently, 390 active members. Fields of testing include acoustical, biological, chemical, construction materials, electrical, environmental, geotechnical, mechanical, metrology, nondestructive, and thermal. Special programs include asbestos, automotive, coal, metals, metal fasteners, paint, radon, thermal (insulation materials and fire testing), thermal (wood heaters), and windows and doors.

**Standardization  
Activities**

Employs ISO Guide 25 for general criteria. Specific criteria for each field of testing are developed with the use of national standards. Participates in United States delegation to the International Laboratory Accreditation Conferences.



**Keywords** testing; accreditation; laboratory; quality system; reference materials; certification;

**AMERICAN ASSOCIATION FOR RESPIRATORY CARE**

Sam P. Giordano, Executive Director

11030 Ables Lane  
Dallas, Texas 75229  
(214) 243-2272

FAX: (214) 484-2720

Founded: 1947

Standards Staff: 5

**Type of Organization** Professional Society  
Standards Developer

**Standards Development** Develops standards concerning administrative, clinical, and technical aspects of respiratory care. Standards available for review.

**Standards Designation** AARC prefix.

**Scope** The sole developer of clinical standards for respiratory care practices. Cooperates to develop administrative standards with such organizations as the Joint Commission of Accreditation of Hospitals. Develops technical standards in cooperation with the American National Standards Institute (ANSI), the Association for the Advancement of Medical Instrumentation (AAMI), and the National Fire Protection Association (NFPA). Also develops clinical standards in cooperation with appropriate regulatory agencies and sponsoring organizations.

**Standardization Activities** Maintains a Standards Committee which responds to requests for standard development from various groups. The Standards Committee also reviews existing data and develops documents without outside requests for such activity. Standards developed in cooperation with other organizations and approved by AARC directors are officially endorsed and published. All standards developed are reviewed every five years. Amends documents prior to mandatory review period if significant changes have occurred to warrant such amendments.

**Availability** Distributed directly.

Formerly	American Association for Respiratory Therapy
Keywords	respiratory care; respiratory therapy; clinical practice; health care;

#### AMERICAN ASSOCIATION OF ADVERTISING AGENCIES

	O. Burtch Drake, President
	405 Lexington Avenue New York, New York 10174 (212) 682-2500
	FAX: (212) 682-8391
	Founded: 1917
	Standards Staff: 2
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1948. 5 active standards.
Scope	Fosters, strengthens and improves the advertising agency business; advances the cause of advertising; and aids member agencies to operate more efficiently and profitably.
Standardization Activities	Cooperates with other industry organizations to develop standards or specifications for the graphic arts industry ensuring quality control for the preparation and distribution of advertising materials for current and future print-related media. This includes involvement with the changes occurring to the offset, rotogravure, and other digitally driven printing processes. Through its involvement in industry initiatives the AAAA assures successful implementation of standards that aid its members. Helping achieve this is an ongoing dialogue with the Magazine Publishers of America, the International Prepress Association (IPA), the National Association of Printing Ink Manufacturers, the Gravure Association of America, the Printing Industries of America (PIA) as well as the N.A.A. (Newspaper Association of America). All of these organizations have the common purpose of improving the reproduction of advertisements in either magazines or newspapers.  As the transition continues to link advertising digitally with current and alternative media (e.g., CD-ROM, multimedia, Web Sites, HDTV, etc.) Both domestically and abroad, standards will be necessary for the entire evolution. The AAAA Print Committee, along with industry organizations and associations like the DDAP (Digital Distribution of Advertising for Publication), the Committee for Graphic Arts Technology Standards (CGATS), the National

Printing Equipment and Supply Association, and the Research and Engineering Council, moves to unite a global economy through the development of accredited standards driven by open process

integration.

Availability Distributed directly.

Keywords magazines; publishing; advertising; communications; printing;

#### AMERICAN ASSOCIATION OF BLOOD BANKS

Karen Shoos, Chief Executive Officer

8101 Glenbrook Road  
Bethesda, Maryland 20814  
(301) 907-6977

FAX: (301) 970-6895

Founded: 1947

Standards Staff: 5

Type of Organization Professional Society  
Standards Developer

Standards Development Standards developer since 1958.  
All proposed standards are published for comment prior to final adoption.  
Over 500 active standards.  
None processed through ANSI.

Standards Designation AABB prefix.

Government Adoption The Department of Defense has adopted AABB Standards and provides them to their hospital and blood collecting facilities. Several state health departments have adopted AABB Standards as the basis for regulation.

Certification Inspection and Accreditation Program which, through inspecting and accrediting facilities, strives to improve the quality and safety of transfusions and assists the medical director of a blood bank or transfusion service in determining whether methods, procedures, and personnel meet established AABB standards. Several states accept AABB inspections as equivalent to their state inspections for licensing requirements.

Scope A professional, not-for-profit scientific and administrative association for those individuals and institutions engaged in the many facets of blood banking. Membership includes physicians,

scientists, medical technologists, administrators, nurses and other involved in the field of blood banking. The AABB serves as the focus for the advancement of the professional practice of blood collection, transfusion therapy, and related fields. 9200 individual and 2400 institutional members

<b>Standardization Activities</b>	Develops and publishes standards of minimum acceptable practice applicable to relevant aspects of blood banking; maintains liaison with other organizations, including the College of American Pathologists, Health Care Financing Administration, and the Food and Drug Administration.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	blood banks; transfusion; public health;

#### **AMERICAN ASSOCIATION OF CEREAL CHEMISTS**

Steven C. Nelson, Executive Vice President

3340 Pilot Knob Road  
St. Paul, Minnesota 55121  
(612) 454-7250 FAX: (612) 454-0766

Founded: 1915 Standards Staff: 4

<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Standards Development</b>	Standards developer since 1924. 250 members active in standards development. 32 technical committees assist in standards work. 350 standard methods and procedures.
<b>Standards Designation</b>	AACC Approved Methods 00-00.
<b>Government Adoption</b>	Largely used by the Federal Grain Inspection Service of the USDA and FDA in the area of cereals.
<b>Certification</b>	Provides certification program for "Sanitation Analyst." Specialized area for quantitative and qualitative analysis of food products for possible contamination by insects, rodents, or other foreign matter of animal origin.
<b>Scope</b>	An international society which develops and standardizes analytical methods used in the milling and baking industries. Expanded in latter years to cover entire cereal processing industry and to

advance and encourage research on all cereal grains and related materials. Methodology is related to all needs of the cereal scientist, from sampling, inorganic and organic ingredients, and microbiology, to chemical residues, additives, and sanitation.

**Standardization  
Activities**

Develops methodology rather than standards per se. Cooperates with the Association of Official Analytical Chemists, American Oil Chemists Society and ASTM. Subjects include analytical methods and apparatus for flours and doughs, flour specifications, and sanitation methods.

**Availability**

Sold directly or through bookstores.

**Keywords**

cereals; cereal chemistry; grain; grain storage; nutrition; food; agriculture; sanitation;

**AMERICAN ASSOCIATION OF MOTOR VEHICLE ADMINISTRATORS**

John Strandquist, President and CEO

4200 Wilson Boulevard  
Suite 600  
Arlington, VA 22203  
(703) 522-4200

FAX: (703) 522-1553

Founded: 1933

Standards Staff: 25

**Type of  
Organization**

Voluntary Nonprofit Association of State and Provincial Officials.  
Works through other organizations to develop standards.

**Representation**

Members and staff representatives active in standards setting committees of SAE, ANSI, ASTM, Canadian Standards Association, National Highway Traffic Safety Administration (NHTSA), CPSC, Economic Commission for Europe (ECE), and Federal Highway Administration (FHWA).

**Scope**

An organization responsible for the administration and enforcement of motor vehicle and traffic laws in the United States and Canada. Provides the principal forum where state and provincial officials exchange information on developments in the industry and maintain liaison between industry and Federal Government.

**Standardization  
Activities**

Activities are directed toward promoting uniform laws and regulations for motor vehicle administration, traffic law enforcement, highway safety, and the standardization and uniform enforcement of these laws. Principal functions are in the areas of: model program development in disciplines relating to motor



vehicle administration, police traffic services, and highway safety; an information clearinghouse; and the industry spokesman.

Services include advice and counsel in various facets of driver services, vehicle services, commercial motor carrier activities, including interstate and provincial reciprocity, and program planning and systems development.

**Keywords**

motor vehicle; automobile; safety; traffic laws; transportation; government officials;

**AMERICAN ASSOCIATION OF NEUROLOGICAL SURGEONS**

see JOINT NEUROSURGICAL COMMITTEE ON DEVICES AND DRUGS

**AMERICAN ASSOCIATION OF NURSERYMEN**

Robert J. Dolibois, CAE, Executive Vice President

1250 Eye Street, NW.  
Washington, DC 20005  
(202) 789-2900

FAX: (202) 789-1893

Founded: 1876

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

American Standards for Nursery Stock ANSI-Z60.1 - 1990.

**Scope**

Enables the nursery industry to work on those projects and activities which foster the general welfare of the industry and their customers.

**Standardization  
Activities**

Develops grades and standards for the use of the nursery industry, landscape architects, landscape contractors, governmental agencies, and others preparing lists and specifications for trading in trees, shrubs, roses, vines, fruit trees, small fruit, bulbs, tubers, and forest tree seedlings through its Horticulture Standards Committee. Standards contain height, caliper, root size, root ball, container size and various other standardized means of describing nursery plants.



**Availability** Distributed directly and through ANSI.

**Keywords** horticulture; nursery plants; agriculture;

#### AMERICAN ASSOCIATION OF POISON CONTROL CENTERS

Rose Ann Soloway, R.N., Administrator

3201 New Mexico Avenue, NW

Suite 310

Washington, DC 20016

(202) 362-7217

FAX: (202) 362-8377

Founded: 1957

**Type of Organization** Trade Association  
Standards Developer

**Scope** The American Association of Poison Control Centers is the professional association for poison centers and those interested in the prevention and treatment of poison exposures. Activities include compilation of national statistics about poison exposures; extended data searches for detailed information about exposures to specific products; sponsorship of an annual scientific meeting; certification of regional poison centers; and certification of specialists in poison information.

**Standardization Activities** A committee on Regional Poison Control Center Certification prepares standard recommended practices for poison control and poison information centers. Since 1979 these have been accepted as standard recommended practices for the establishment and operation of properly qualified centers.

A Committee on Personnel Proficiency is responsible for preparing and administering a certification examination for specialists in poison information, since 1983.

**Availability** Distributed directly.

**Keywords** poison control; education; medical certification;

#### AMERICAN ASSOCIATION OF PSYCHIATRIC SERVICES FOR CHILDREN

Sydney Koret, Ph.D., Executive Director

1200-C Scottsville Road, Suite 225

Rochester, New York 14624

(716) 235-6910

Founded: 1948

Type of  
Organization

Professional Society  
Standards Developer

Certification

AAPSC provides accreditation to organizations providing children's mental health service and/or training.

Scope

Membership consists of 160 child psychiatric services that foster prevention of mental and emotional disorders and further the development and application of clinical knowledge dealing with child mental health as well as individual practitioners (child psychiatrists, psychologists, social workers, nurses, etc.) Provides for individual or organizational extraordinary achievement and in study and treatment of schizophrenia.

Standardization  
Activities

Provides leadership in defining and maintaining standards of clinical practice, organization of treatment, and specialized training. To be eligible for accreditation, a child psychiatric facility must provide proof of its continuity of service, together with background of its key staff members. The AAPSC Division of Accreditation reviews treatment approaches, staff competence and quality, quality care and physical plant in a site visit, conducted by trained visitors. The Division, organized by mental health disciplines, reviews and determines eligibility for accreditation.

Keywords

mental health; psychiatric services; children; health care;

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS

Francis B. Francois, Executive Director

444 North Capitol Street NW  
Suite 249  
Washington, DC 20001  
(202) 624-5800

FAX: (202) 624-5806

Founded: 1914

Standards Staff: 5

Type of  
Organization

State Government Association  
Standards Developer

Standards  
Designation

Materials Specifications: M-XXX.  
Test Methods: T-XXX.  
Recommended Practices: R-XXX.

Government Adoption	The Federal Highway Administration has adopted AASHTO standards by reference in the Code of Federal Regulations. State transportation agencies either adopt or reference AASHTO to standards.
Certification	Operates a laboratory accreditation program on behalf of state highway and transportation officials. The AASHTO Materials Reference Laboratory (AMRL), established at the National Institute of Standards and Technology, promotes uniformity in the testing of construction materials by public or private sector laboratories serving the construction field.
Scope	Fosters development, operation, and maintenance of a nation-wide integrated transportation system and cooperates with other appropriate agencies in considering matters of mutual interest in serving the public need.
Standardization Activities	<p>Develops and publishes The Standard Specifications for Transportation Materials and Methods of Sampling and Testing, containing 176 specifications and 9 recommended practices. Maintains a Subcommittee on Material which has members representing each of the 50 states, the Commonwealths of Puerto Rico and the Northern Mariana Islands, the District of Columbia, the United States Department of Transportation, the New Jersey Turnpike Authority, 6 Canadian Provinces and 2 territories.</p> <p>Develops and Publishes Interim Specifications which have the same status as standards of the American Association of State Highway and Transportation Officials, but are tentative revisions to be approved by the Subcommittee prior to issuance as standards of the Association.</p> <p>Develops and publishes: Standard Specifications for Highway Bridges; A Policy on Geometric Design of Rural Highways; A Policy on Design of Urban Highways and Arterial Streets; Guide to Metric Conversion' Guide for Design of Pavement Structures; Guide for the Design of Park-and-Ride Facilities; Highway Drainage Guidelines; A Policy on Geometric Design of Highways and Streets; and Roadside Design Guide.</p>
Availability	Sold directly and through IS.
Formerly	American Association of State Highway Officials (1973)
Keywords	transportation; highways; construction materials; government officials;

## AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS

William R. Martin, Executive Director

P.O. Box 12215

Research Triangle Park, North Carolina 27709

(919) 549-8141

FAX: (919) 549-8933

Founded: 1921

Standards Staff: 2

### Type of Organization

Technical Society  
Standards Developer

### Standards Development

Standards Developer since 1921.  
1100 members participating in standards activities.  
138 active standards.  
Most AATCC Test Methods become American National.  
Standards through ANSI.  
Drafts of proposed or revised test methods available for review.

### Standards Designation

AATCC prefix.

### Government Adoption

Various government agencies have either adopted or adapted a number of AATCC test methods.

### Certification

No certification, qualification, or accreditation programs.

### Secretariats

ISO/TC 38/SC 1, Tests for colored textiles and colorants  
ISO/TC 38/SC 2, Cleansing, finishing and water resistance tests  
USA TAG for ISO/TC 38-Textiles

### Scope

Promotes increased knowledge of the application of dyes and chemicals in the textile industry; encourages, in a practical way, research on chemical processes and materials of importance to the textile industry; and promotes the exchange of professional knowledge.

Membership includes many leading textile chemists and colorists in nearly every state and 50 countries. Some 300 companies support the association as corporate members.

### Standardization Activities

Internationally recognized for its standard methods of testing dyed and chemically treated fibers and fabrics to measure such performance characteristics as colorfastness to light and washing, crease resistance, shrinkage, wash-and-wear, water resistance, flammability, and other conditions to which textiles may be subjected. Ensures textile quality and performance by controlled AATCC test methods.

Maintains cooperative relationships with other associations and agencies of the federal government. Participates in the International Organization for Standardization (ISO) in an effort to bring about worldwide uniformity in testing procedures.

Publishes Textile Chemist and Colorist, issued monthly, and an annual Technical Manual containing the association's test methods. Collaborates with the British Society of Dyers and Colorists on numerous projects.

**Availability**

Distributed directly and through IHS and Global.

**Keywords**

textiles; chemistry; dyes; finished; colorfastness; flammability; laboratory testing;

**AMERICAN AUTOMOBILE ASSOCIATION**

Robert L. Darbelnet, President and CEO

1000 AAA Drive

Heathrow, Florida 32746-5064

(407) 444-7000

FAX: (407) 444-8030

Founded: 1902

**Type of  
Organization**

Trade Association

Works through other organizations to develop standards

**Scope**

Federation of 113 motor clubs serving more than 37 million members throughout the United States and Canada. A nonprofit, tax-paying organization, which provides auto and travel-related services to its members, and works on behalf of the best interests of the motoring and traveling public to promote safer and more enjoyable travel.

**Standardization  
Activities**

Participates in the development of proposed standards of various types relating to increasing the safety and convenience of pedestrians in traffic. Develops detailed methods and standards for training new drivers and improving the skills of older drivers. Represented on committees of the Transportation Research Board, National Safety Council, and National Committee on Uniform Traffic Control Devices.

Cooperates with other organizations to develop standards for the operation of school safety patrols and adult crossing guards, and in standards activities in the fields of pedestrian protection, and automotive engineering.



**Keywords** motor vehicle; transportation; traffic safety; highway safety;  
motor laws; tourism; insurance;

**AMERICAN AUTOMOBILE MANUFACTURERS ASSOCIATION OF THE UNITED STATES**

Richard L. Klimisch, Ph.D., Vice President  
Engineering Affairs Division

7430 Second Avenue  
Suite 300  
Detroit, Michigan 48202  
(313) 872-4312 FAX: (313) 872-5405

Founded: 1913

**Type of Organization** Trade Association  
Works through other organizations to develop standards and  
develops standards unique to auto industry.

**Scope** Manufacturers of passenger and commercial cars and light trucks.  
Conducts research projects; collects historical facts and figures;  
compiles statistics; monitors, evaluates and responds to federal  
and state legislation and regulatory activity dealing with motor  
vehicles and their use; and coordinates actions on occupational  
safety and health.

**Standardization Activities** The Association is a member of ANSI and participates in standards  
development related to motor vehicles, workplace health and  
safety, motor vehicle systems and traffic accident reporting. The  
Association participates in the Organization Internationale des  
Constructeurs d'Automobiles related to vehicle regulations.

**Formerly** Motor Vehicle Manufacturers Association (1992)  
Automobile Manufacturers Association (1972)  
National Automobile Chamber of Commerce

**Keywords** automobiles; automotive; light trucks; cars; transportation;  
workplace; accident reporting;



## AMERICAN BEARING MANUFACTURERS ASSOCIATION

Brian T. Borders, President

1200 19th Street, NW  
Suite 300  
Washington, DC 20036  
(202) 429-5155  
Founded: 1933

FAX: (202) 663-7543  
Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	30 active standards.
Standards Designation	ANSI/ABMA prefix.
Certification	No certification, qualification, or accreditation programs
Secretariats	Accredited Standards Committee B3 operating under ANSI procedures. U.S. TAG for IS/TO 4 and subcommittees SC 3, SC 6, SC 9, SC 10, SC 11. International Secretariat for IS/TO 20/SC 15, Airframe. Bearings.
Scope	Membership comprised of manufacturers of ball bearings, roller bearings, balls, rollers, spherical plain bearings, and major components.
Standardization Activities	Develops ANSI/ABMA standards.
Availability	Directly and through ANSI, IS, and Global.
Formerly	Anti-Friction Bearing Manufacturers Association (1993)
Keywords	ball bearings; roller bearings; machinery;

## AMERICAN BOAT AND YACHT COUNCIL

C. T. "Skip" Moyer, III, Executive Director

3069 Solomon's Island Road  
Edgewater, Maryland 21037-1416  
(410) 956-1050

FAX: (410) 956-2737

Founded: 1954

Standards Staff: 5

**Type of  
Organization**

Technical Society  
Standards Developer

**Standards  
Development**

70 standards currently active.  
8 processed through ANSI.  
25 project technical committees.  
220 committee members are active in standards development.

**Standards  
Designation**

ABYC prefix, e.g., ABYC E-9 Direct Current  
(DC) Electrical Systems on Boats.

**Government  
Adoption**

U.S. Coast Guard references ABYC standards.

**Scope**

An independent, nonprofit, membership organization representative of recreational boating including members from industry, insurance, Government, and the boating public. Membership consists of 3100 individuals, corporations and associations.

**Standardization  
Activities**

Develops safety standards and recommended practices for the design, construction, equipage, and maintenance of boats and their related accessories. Standards are generated by project technical committees and reviewed by the ABYC Technical Board and Board of Directors prior to publication. Standards provide a basis for certification programs of other organizations and are used as source material by the U.S. Coast Guard in their development of safety regulations under the Boating Safety Act of 1971. ABYC standards have served as the basis for 30 ISO standards.

Individual members work voluntarily through committees and boards to implement the boating safety standards program. In addition, liaison is maintained with other organizations by means of memberships on NFPA 302, Subcommittee on Motor Craft; SAE Marine Technical Committee; UL Marine Engineering Council; National Safe Boating Council; National Boating Safety Advisory Council; Rules of the Road Advisory Council; ASTM F-15.10, Gasoline Containers for Consumer Use; and ISO/TC 188 Small Craft.

**Availability**

Distributed directly.

**Keywords**

boats; boating safety; transportation; recreation;

## AMERICAN BOILER MANUFACTURERS ASSOCIATION

Russell N. Mosher, President

950 North Glebe Road, Suite 160  
Arlington, Virginia 22209  
(703) 522-7350 FAX: (703) 522-2665  
e-mail: 76041,2623@compuserv.com

Founded: 1888

Standards Staff: 1

### Type of Organization

Trade Association

### Scope

Manufacturers of boilers and allied equipment; compiles statistics and conducts training programs.

### Standardization Activities

Maintains a Technical Committee. Publishes a lexicon of industry terminology, water quality, steam quality and accessory product definitions.

### Availability

Distributed directly.

### Formerly

American Boiler Manufacturers Association and Affiliated Industries (1960)

### Keywords

boilers; heating; industrial equipment; steam generators;

## AMERICAN BOWLING CONGRESS/WOMEN'S INTERNATIONAL BOWLING CONGRESS

Dan Speranza, Manager

Equipment Specification Department  
5301 South 76th Street  
Greendale, Wisconsin 53129-1127  
(414) 421-6400 FAX: (414) 421-1194

Founded: 1895

Standards Staff: 7

### Type of Organization

Trade Association  
Standards Developer

### Certification

All bowling lanes under the jurisdiction of the ABC/WIBC are certified annually by representative of local bowling associations chartered by ABC/WIBC. Lanes are measured and checked to ensure that physical properties and dimensions correspond to ABC/WIBC specifications. When found to meet all specifications, an ABC/WIBC decal is issued for posting in the establishment.

<b>Scope</b>	A nonprofit, noncommercial, membership service organization for male bowlers (ABC) and female bowlers (WIBC). Sponsors competitions; provides standard rules and tests. Approves material and equipment.
<b>Standardization Activities</b>	Instrumental in developing specifications for playing equipment worldwide. Maintains an equipment testing and research department that works with new products brought to it for consideration, and also maintains a constant check on products already in use. Publishes equipment specifications annually in the ABC constitution, Rules and Specifications. Standard developed for lanes, bowling balls, pins, pinsetting machines, automatic scorers, and foul detectors. Equipment specifications are printed annually in the ABC Constitution, Rules and Specifications book.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Absorbed the United States Seniors Bowling Association (1964)
<b>Keywords</b>	bowling; recreation;

#### AMERICAN BRUSH MANUFACTURERS ASSOCIATION

Taylor Fernley, Managing Director

1900 Arch Street

Philadelphia, Pennsylvania 19103

(215) 564-3484

FAX: (215) 564-2175

Founded: 1918

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Designation</b>	ANSI B165.1 and B165.2.
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<b>Scope</b>	The national trade association representing manufacturers of brushes, brooms, and mops, together with suppliers of parts, materials, machinery, and services. ABMA maintains several divisions organized by type of product including paint applicator, personal, household maintenance, broom and mop, and industrial.
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<b>Standardization Activities</b>	All current standard activities are conducted by the Safety and Standards Committee of the Industrial Division, which works closely with ANSI. The main thrust of two standards developed to date is concern with safe operation of power driven rotary wheel-type brushes. ANSI B165.1 (1979) defines safety requirements for the design, care and use of power driven brushing tools; and ANSI B165.2 (1982) covers safety requirements with wood, plastic, or composition hubs and cores.
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Availability Directly from ANSI.

Keywords brushes; industrial equipment; safety;

#### AMERICAN BUREAU OF SHIPPING

Frank J. Iarossi, Chairman

Two World Trade Center,  
106th Floor  
New York, NY 10048  
(212) 839-5000

FAX: (201) 839-5130

Founded: 1862

Standards Staff: 12

Type of  
Organization

Technical Society  
Standards Developer

Standards  
Development

Established and administers standards called "Rules" for the design, construction, and periodic survey of merchant ships and other marine structures; publishes 15 volumes of Rules and 31 guides; and publishes the Record, a registry of merchant vessels.

Standards  
Designation

ABS prefix.

Government  
Adoption

Over 100 governments recognize ABS to act on their behalf by conducting surveys and issuing certificates relating to various international maritime conventions. ABS is authorized by USCG to act on their behalf in reviewing plans and inspecting United States flag vessels which are certified by the USCG. USCG also recognizes ABS to perform admeasurement of vessels and issue tonnage certificates on their behalf. Under the Merchant Marine Act of 1920, ABS is recognized as a United States Government agency for classification of merchant vessels that it may own.

Certification

ABS has separate volumes of Rules and Requirement for the Certification of Cargo Containers and for Cargo Gear. Also, classification involves various certifications to provide assurance that the ABS Rules are met, such as those for design plans, machinery components, welders, etc. ABS also provides certification services according to other recognized standards or client-specified standards.



<b>Scope</b>	An international ship classification society and nonprofit corporation. Objectives include: preparation of standards, known as "Rules" and "Guides", for the construction of hulls and machinery of ships and other marine structures, including material specifications and regulations for periodic surveys. Standards published annually and modified to keep pace with developments in shipbuilding and marine engineering; analysis of plans for vessels projected to be built or reconversions of existing vessels to verify that they meet the standards set by the rules; verification of the building to approved plans of the new hull and its main machinery, boilers and vital auxiliaries, and the construction for hull and machinery as required by the Rules; carrying out periodic and damage surveys as called for by the Rules; annual publication of the Record of the American Bureau of Shipping, which contains essential details of hull and machinery and survey status of bureau-classed vessels; issuance of certificates of character for bureau-classed vessels, i.e., classification certificates, seaworthy certificates, confirmation of class certificates, etc.
<b>Standardization Activities</b>	Promulgates and annually updates its Rules through committees composed of individuals internationally eminent in their marine field.
<b>Availability</b>	Standards distributed directly through all offices of ABS.
<b>Formerly</b>	American Shipmaster's Association (1862-1898)
<b>Keywords</b>	merchant ships; vessels; marine engineering; transportation; containers; safety;

#### AMERICAN BUS ASSOCIATION

	George T. Snyder, Jr., President and CEO
	1100 New York Avenue, NW, Suite 1050 Washington, DC 20005-3934 (202) 842-1645 FAX: (202) 842-0850
	Founded: 1926 Standards Staff: 3
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Department of Transportation, Interstate Commerce Commission

Scope	A trade organization of the intercity bus industry with more than 700 motor coach owner and tour company members in the United States, Canada and Mexico. Its members operate charter, tour, regular route, airport express, special operations and contract services. Another 2300 members are travel and tourism organizations and suppliers of bus products and services who work in partnership with the North American motor coach industry.
Standardization Activities	<p>Concerned with the development of standards and requirements in matters affecting motor carrier and motor vehicle safety and occupational safety and health. Included are operation, maintenance, and inspection of vehicles, safety-related parts and accessories such as brakes, tires, lights, windows, seats, etc.; control of noise and pollutant emissions; and accident reporting. Cooperates with the U.S. Department of Transportation, and participates in the work of voluntary groups. Works with federal and state legislative groups in connection with standardization of vehicle sizes and weights.</p> <p>Also works with the Interstate Commerce Commission and other interested Government agencies, and industry groups in connection with standards and requirements relative to such matters as accounting, reporting of financial and operating data, certification of operating authorities, and vehicle registration.</p> <p>Association committees and staff representatives are primarily responsible for its standardization activities. Included are committees on Safety and Ethics.</p>
Formerly	<p>Motor Bus Division of American Automobile Association</p> <p>National Motor Bus Division of American Automobile Association</p> <p>National Association of Motor Bus Operators (1960)</p>
Keywords	bus transportation; transportation; vehicles; motorcoach tours; charters; intercity bus;

#### AMERICAN CHAIN ASSOCIATION

Robert A. Reinfried, Executive Secretary

9384-D Forestwood Lane

Manassas, VA 22110

(703) 330-7079

FAX: (703) 330-7984

Founded: 1981

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	7 members active in ACA standardization serving on ASME, ANSI, and ISO standards committees
Scope	Manufacturers of sprocket-driven chain and sprockets for power transmission and the conveyance of materials.
Standardization Activities	Active in standardization of dimensions of roller, silent, engineering steel and malleable iron chains, sprockets and wheels for the purpose of securing interchangeability, and also in recommendations for standards for power capacity and speed for these chains. Does not publish standards, preferring to sponsor standards for adoption through the procedures of the American National Standards Institute (ANSI). Cooperates with the American Society of Mechanical Engineers, Society of Automotive Engineers, American Petroleum Institute, Conveyor Equipment Manufacturers Association, and the American Gear Manufacturers Association in standardization matters of mutual interest. ANSI standards covering chain include B29.1 through B29.25M. Participates in the work of Technical Committee 100 of the International Organization for Standardization.
Formerly	Association of Roller and Silent Chain Manufacturers and Malleable Chain Manufacturers Institute American Chain Sprocket Chain Manufacturers Association
Keywords	chain; sprockets; power transmission; machinery;

#### AMERICAN CHEMICAL SOCIETY

COMMITTEE ON ANALYTICAL REAGENTS  
Clarence Lowery, Chairman

c/o Books Department  
American Chemical Society  
1155 Sixteenth Street NW.  
Washington, DC 20036  
(202) 872-4600  
WWW: <http://www.acs.org/>

FAX: (202) 872-4600

Founded: 1876

Standards Staff: 3

Type of Organization

Scientific Society  
Standards Developer

Standards Development

63 existing standards for reagents; 15-30 under development or revision.  
None processed through ANSI.

Standards Designation	ACS prefix.
Scope	Sets standards by which manufacturers can classify their reagents for sale as ACS Grade. Reagents labeled as such are known to purchasers to be of a certain purity and to meet certain maximum and minimum requirements.
Standardization Activities	Develops and publishes standards for reagent chemicals that have utility in analytical chemistry work. Revises existing standards with new and improved methods. Considers new standards for additional useful reagents. Standards and revisions are available for review by nonmembers. Publishes specifications in a volume titled "Reagent Chemicals" at approximately 5-year intervals.
Availability	Distributed directly.
Formerly	Committee on the Purity of Chemical Reagents (1903-27)
Keywords	chemicals; reagents; analysis; testing; materials;

#### AMERICAN COLLEGE OF SURGEONS

Paul A. Ebert, MD, Director

55 East Erie Street  
Chicago, Illinois 60611  
(312) 664-4050

FAX: (312) 440-7014

Founded: 1913

Type of Organization	Professional Medical Society Standards Developer
Standards Development	The national organization responsible for the standardization and approval of hospital cancer programs in the United States.
Scope	An association of 54 000 surgeons organized for the primary purpose of improving the quality of care for the surgical patient by elevating the standards of surgical education and practice.
Standardization Activities	Cooperates with other recognized national medical organizations in the accreditation of hospitals and in the approval of graduate training programs in general surgery and the surgical specialties. Active in the establishment of medical instrumentation standards through its representative who serves on a committee of AAMI.

Availability	Distributed directly.
Keywords	medical care; surgery; medical training; cancer; medical treatments; trauma;
AMERICAN CONCRETE INSTITUTE	
	Paul C. Breeze, Director of Engineering
	22400 West Seven Mile Road
	Detroit, Michigan 48219
	(313) 532-2600                      FAX: (313) 538-0655
	Founded: 1905                      Standards Staff: 6
Type of Organization	Technical Society Standards Developer
Standards Development	Standards Developer since 1906; 30 active standards, including 3 metric, plus 130 committee reports; 3000 members participate in standards activities; most standards processed through ANSI; draft standards available for review.
Standards Designation	ACI prefix.
Government Adoption	The Department of Defense has adopted a number of ACI standards.
Certification	ACI administers the following certification programs: Concrete Field Testing Technician, Grade I; Concrete Laboratory Testing Technician, Grades I and II; Concrete Construction Inspector-in-Training; Concrete Construction Inspector, Concrete Transportation Inspector In-Training; Concrete Transportation Construction Inspector, Concrete Flatwork Finisher, and Concrete Flatwork Technician.  ACI accredits equivalent certification programs administered by other organizations.
Scope	Devotes its efforts to the solution of technical requirements related to the design, construction, and maintenance of concrete and reinforced concrete structures, and to the dissemination of information in this field.



<b>Standardization Activities</b>	One hundred and ten technical committees study specialized problems through the evaluation of published information, research reports, and majority opinion based on field practices, leading to the development of committee reports. Many committee reports evolve into standards after technical review and discussion by the membership and letter ballot of the members.
	Standards are confined to codes, specifications, and standards practices related to structures as a whole. Basic materials and "over-the-counter" components are deliberately excluded from the scope of its standardization procedures.
<b>Availability</b>	Distributed directly and through Global and IHS.
<b>Formerly</b>	National Association of Cement Users (1913)
<b>Keywords</b>	concrete; reinforced concrete; prestressed concrete; structural design; construction; restoration; repair;

#### AMERICAN CONCRETE PAVEMENT ASSOCIATION

	M.J. Knutson, P.E., President/CEO
	3800 North Wilke Road Suite 490 Arlington Heights, Illinois 60004 (708) 966-2272                      FAX: (708) 394-5610
	Founded: 1964                      Standards Staff: 2
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Scope</b>	Represents 500 construction firms, material suppliers and equipment manufacturers on matters affecting the industry's relations with the public and public agencies. Seeks to improve the quality of concrete pavement and create new markets for members.
<b>Standardization Activities</b>	Prepares guide specifications on concrete pavement construction, fast track concrete paving, rehabilitation, resurfacing, and restoration. Cooperates with state, federal and local agencies in reviewing their specifications. Provides upon request recommendations regarding concrete pavement design and construction.
<b>Keywords</b>	concrete; pavement; construction; materials;

## AMERICAN CONCRETE PIPE ASSOCIATION

Jeffrey I. Enyart, President

8618 Westwood Center Drive, Suite 105

Vienna, Virginia 22182

(703) 821-1990

FAX: (703) 821-3054

e-mail: jenyart@ix.netcom.com

Founded: 1907

Standards Staff: 2

### Type of Organization

Trade Association

Works through other organizations to develop standards

### Representation

ASTM, AASHTO, AREA

### Scope

An international trade association representing the precast concrete pipe industry. Activities include research, technical services, promotion, advertising, education, safety, and the publication of technical and industry information. Members produce concrete pipe, box sections, and related products for storm sewers, sanitary sewers, and culverts; drain tile; irrigation systems; and low-head pressure systems.

### Standardization Activities

Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pipe industry standards activities and acts as the industry voice.

Industry-related products are covered by national consensus standards developed by ASTM, AASHTO, and AREA. Manufacturing standards cover precast concrete products, such as non-reinforced pipe for sewers, culverts, drain tile, and irrigation; reinforced circular, arch and elliptical pipe, box sections, and manholes for sewers and culverts; reinforced circular pipe for low-head pressure systems; and perforated pipe. Other manufacturing standards cover joints, jointing materials, and resilient connectors for pipe to structure connections. Proof of design and quality assurance are covered by plant test methods standards. Acceptance of installed products is covered in standards practices for various field tests. Design standards for pipe and box sections cover determination of loads, stresses, and required structural strength.

### Keywords

sewer; culvert; irrigation; drain tile; construction;

## AMERICAN CONCRETE PRESSURE PIPE ASSOCIATION

David P. Posser, President

8618 Westwood Center Drive, Suite 105

Vienna, Virginia 22182

(703) 839-4350

FAX: (703) 821-3054

Founded: 1949

Standards Staff: 2

Type of Organization Trade Association  
Works through other organizations to develop standards

Representation Primarily ASTM and AWWA

Scope An international trade association representing the concrete pressure pipe industry. Activities include research, technical services promotion, public relations, advertising, education, and liaison with technical societies and government agencies. Its members produce precast concrete pressure pipe for transmission lines in irrigation, industrial and domestic water-supply systems, as well as distribution feeder mains, pressure siphons, sewer force mains, and sewer outfall lines.

Standardization Activities Not a standards developing organization, but works within the voluntary standards system to coordinate concrete pressure pipe industry standards activities and acts as the industry voice.

Products of the industry are covered by national consensus standards developed by the American Society for Testing and Materials (ASTM) and the American Water Works Association (AWWA). Manufacturing standards cover reinforced concrete pressure pipe, reinforced concrete cylinder pipe, pretensioned concrete cylinder pipe, and prestressed concrete cylinder pipe.

Keywords water-supply; sewage; construction;

## AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

Richard A. Strano, Executive Director

1300 Kemper Meadow Drive

Suite 600

Cincinnati, Ohio 45240

(513) 742-2020

FAX: (513) 742-3355

Founded: 1938

Standards Staff: 2

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Standards developer since 1940's. 750 Documentations defining Threshold Limit Values and Bio-Indices.
<b>Government Adoption</b>	Various federal agencies, including OSHA, Department of Labor.
<b>Secretariats</b>	Threshold Limit Values for Chemical Substances Committee. Threshold Limit Values for Physical Agents Committee. Industrial Ventilation Committee.
<b>Scope</b>	A national professional association of practicing industrial hygiene and occupational and environmental safety and health personnel. Assembles guides, recommends practices, and develops technical background for the evaluation and control of the occupational environment.
<b>Standardization Activities</b>	Develops and annually revises the Threshold Limit Values which are recommended on airborne contaminants and physical agents in workplaces. Used by professionals with direct responsibilities for worker health protection. Publishes the Industrial Ventilation Manual of Recommended Practices.
<b>Availability</b>	Sold directly in paper and CD-ROM.
<b>Keywords</b>	industrial hygiene; airborne contaminants; occupational safety; Threshold Limit Values; Bio-Indices; industrial ventilation; public health; government officials;

#### AMERICAN CONGRESS ON SURVEYING AND MAPPING

John Lisack, Executive Director

5410 Grosvenor Lane  
Bethesda, Maryland 20814  
(301) 493-0200

FAX: (301) 493-8245

Founded: 1941

<b>Type of Organization</b>	Professional Society Works through other organizations to develop standards
<b>Certification</b>	Hydrographic Surveyor Certification Program since 1984.
<b>Scope</b>	A national professional association representing 11000 members in the fields of surveying and mapping; composed of three member organizations: National Society of Professional Surveyors (NSPS),

American Association for Geodetic Surveying (AAGS), and American Cartographic Association (ACA).

**Standardization  
Activities**

Cooperates with ASCE, ANMC, International Cartographic Association (ICA) and International Federation of Surveyors (FIG) to promote standards in the fields of land and geodetic surveying and cartography.

Developed 1989 Digital Cartographic Data Standards. Works voluntarily through committees.

**Keywords**

surveying; mapping; cartography; data processing;

**AMERICAN CRYSTALLOGRAPHIC ASSOCIATION**

Marcia J. Vair, Administrative Secretary

P.O. Box 96  
Ellicott Station  
Buffalo, New York 14205-0096  
(716) 856-9600 ext. 321 FAX: (716) 852-4846

Founded: 1949

**Type of  
Organization**

Scientific Society  
Standards Developer

**Scope**

Promotes the study of the arrangement of atoms in matter, its causes, its nature, its consequences, and the tools and methods used in such studies.

**Standardization  
Activities**

The Apparatus and Standards Committee has promulgated standards for camera tracks and bases and has adopted dimensional specifications for goniometer heads.

An ACA appointed representative serves as a liaison to the National Institute for Standards and Technology for the issuance of Crystal Data. This publication provides a complete list of crystalline substances as identifies from unit cell dimensions.

**Availability**

Distributed directly.

**Formerly**

Merger of the Crystallographic Society of America and the American Society for X-Ray and Electron Diffraction

**Keywords**

crystals; crystallography; instruments; testing;



## AMERICAN DAIRY PRODUCTS INSTITUTE

Dr. Warren S. Clark, Jr., Chief Executive Officer

130 North Franklin Street  
Chicago, Illinois 60606  
(312) 782-4888

FAX: (312) 782-5299

Founded: 1923

Standards staff: 2

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards developer since 1923 for evaporated milk products, testing, and sanitation, since 1925 for dry milk products, and since 1971 for whey products.

### Government

The U.S. Department of Agriculture has adopted industry-recommended

### Adoption

standards for grades of nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk. Developed common and usual names for whey and whey products that have been accepted by the FDA and were published as a Regulation in the Federal Register of September 4, 1981 (Vol. 46, No. 172, pp. 44434-42).

### Certification

No certification, qualification, or accreditation programs.

### Scope

A national trade association for the processed dairy products industry. Scope of activity includes evaporated and dry milk products, as well as whey and modified whey products, including lactose (milk sugar). Serves and promotes the interests of its members; enhances the acceptance and utilization of processed dairy products, maintains liaison and represents the industry in dealings with governmental agencies and legislative bodies; supports technical and marketing research; and assembles and disseminates statistics and other information.

### Standardization Activities

Activities coordinated through Standards/Research Committee. Develops standards in the areas of product definitions/nomenclature; specifications and grade classifications; and sanitation for processed dairy products including evaporated milk, evaporated lowfat milk, evaporated skim milk, and evaporated filled milk; nonfat dry milk, instant nonfat dry milk, dry whole milk and dry buttermilk; whey, reduced lactose whey, reduced minerals whey, whey protein concentrate, and lactose. Accepted by the industry nationally and internationally. Cooperates with the Food and Drug Administration and the Department of Agriculture. Participates in the Codex Alimentarius program.

**Formerly** ADPI is the result of a 1986 merger of the American Dry Milk Institute (1925) and the Whey Products Institute (1971). In 1987, the Evaporated Milk Association (1923) merged with ADPI.

**Keywords** milk; milk products; whey; whey products; lactose; food;

#### AMERICAN DEFENSE PREPAREDNESS ASSOCIATION

Lawrence F. Skibbie, President

Two Colonial Place  
2101 Wilson Boulevard  
Arlington, Virginia 22201-3061  
(703) 522-1820 FAX: (703) 522-1885

Founded: 1919

**Type of Organization** Technical Society  
Works through other organizations to develop standards

**Representation** Primarily DoD and defense-related industry.

**Scope** Concerned citizens, military personnel, and engineers interested in industrial preparedness for the national defense of the United States.

**Standardization Activities** Coordinates standards through programs, papers, symposia, panels. Works closely with government officials to develop standards, particularly in areas of engineering documentation and quality assurance.

**Formerly** Army Ordnance Association (1947)  
American Ordnance Association (1973)

**Keywords** national security; defense;

#### AMERICAN DENTAL ASSOCIATION

Sharon Stanford, Assistant Director, Dental Standards and Guidelines, Council on Scientific Affairs

211 East Chicago Avenue  
Chicago, Illinois 60611  
(312) 440-2509 FAX: (312) 440-2536  
e-mail: stanfors@ada.org

Founded: 1859 Standards Staff: 4

Type of Organization	Professional Society Standards Developer
Standards Development	Specifications and certification program since 1928. 53 active standards - all American National Standards. Working projects underway for 85 specifications. Draft standards available for comment.
Standards Designation	ANSI/ADA prefix.
Government Adoption	The Department of Defense has adopted 3 standards.
Certification	Acceptance program based upon physical standards or guidelines; proof of biological, and clinical safety and effectiveness.
Secretariats	U.S. TAG for ISO/TC 106 Dentistry. Working Group 2, Prosthodontic Materials of ISO/TC 106. Accredited standards Committee MD156 (ASC MD156).
Scope (ASC MD156)	Nomenclature, standards and specifications for dental materials, except those recognized as drugs. Nomenclature, standards and specifications for dental instruments, equipment and accessories used in dental practice, dental technology and oral hygiene which are offered to the public or profession. Orthodontic, prosthetic, and restorative appliances designed or developed by the dentist for an individual patient are excluded.
Standardization Activities	Council on Scientific Affairs, acts as administrative secretariat and sponsor activities of ASC MD 156. The ADA also sponsors participation in ANSI activities of the International Organization for Standardization Technical Committee 106 on Dentistry. The ADA works both nationally and internationally in the formulation of standards for dental materials, instruments and equipment.
Availability	Distributed through ANSI.
Formerly	National Dental Association (1897-1922) Absorbed: Southern Dental Association (1897)
Keywords	dentistry; dental materials, instruments and equipment; medical devices; health care;

## AMERICAN DESIGN DRAFTING ASSOCIATION

Rachel Howard, Executive Director

P O Box 799  
Rockville, Maryland 20848-0799  
(301) 460-6875 FAX: (301) 460-8591

Incorporated: 1959

Type of Organization	Professional Association Works through other organizations to develop standards
Scope	Conducts educational programs relating to management, administration, performance, and instruction of design/drafting; sponsors councils; conducts an annual convention/exposition. Over 2000 members engaged in the manual and/or automated design and drafting fields.
Standardization Activities	Maintains a Standards Committee which reviews ANSI proposed standards relating to the design/drafting fields. Submits comments to ANSI relating to proposed and existing standards. Informs the membership of the release, cost, and availability of new standards.
Keywords	design; drafting; interactive graphics; documentation; configuration management; change control; metric; data processing;

## AMERICAN ELECTROENCEPHALOGRAPHIC SOCIETY

Jacquelyn T. Coleman, Executive Director

One Regency Drive  
P.O. Box 30  
Bloomfield, Connecticut 06002  
(203) 243-3977 FAX: (203) 286-0787

Type of Organization	Professional Society Standards Developer
Scope	Furtheres the knowledge of electroencephalography and related sciences, and promotes the exchange of scientific and professional information and opinions throughout the world.
Standardization Activities	Works to establish uniform standards, techniques, and procedures; assists in setting up standards for training, examination, and qualification of clinical electroencephalographers and techni-

cians; draws up minimum specifications for apparatus and equipment to maintain high clinical standards.

**Availability**

Distributed directly.

**Keywords**

medical instruments; electroencephalography; neurology; health care;

**AMERICAN ELECTROPLATERS AND SURFACE FINISHERS SOCIETY**

Ted Witt, CEF, Executive Director

12644 Research Parkway  
Orlando, Florida 32826  
(407) 281-6441

FAX: (407) 281-6446

Founded: 1909

**Type of  
Organization**

Scientific Society  
Works through other organizations to develop standards

**Representation**

ASTM, ANSI, ISO

**Scope**

Promotes all aspects of electroplating and surface finishing.

**Standardization  
Activities**

Participates in standards development pertaining to electroplated coatings. Relies on work of American Society for Testing and Materials (ASTM), Committee B-8 on Electrodeposited Metallic Coatings, and endorses the standards prepared by Committee B-8 whose members are members of the American Electroplaters and Surface Finishers Society. Maintains formal representation on ASTM Committees A-5 on Corrosion of Iron and Steel, D-19 on Industrial Water, and B-7 on the Anodic Oxidation of Aluminum and Magnesium Alloys, as well as American National Standards Institute Committee Z9 on Safety Codes for Exhaust Systems. Holds Secretariat of ISO/TC 107.

**Formerly**

National Electro-Platers Association of the United States and Canada (1913)  
American Electroplaters Society

**Keywords**

electroplating; metallic coating; materials; surface finishing;



## AMERICAN FENCE ASSOCIATION

Frederick G. Dempsey, Jr., CAE, Executive  
Vice President

5300 Memorial Drive  
Suite 116  
Stone Mountain, Georgia 30083  
(404) 299-5413 FAX: (404) 299-8927

Founded: 1962

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM Committee F14.
Scope	Serves the entire fence industry in North America and 22 foreign countries. Membership includes installer contractors, wholesalers, manufacturers, and related fence industry business.
Standardization Activities	Members work with ASTM and Chain Link Fence Manufacturers Institute (CLFMI) to develop standards and specifications for fence products.
Keywords	fence; construction;

## AMERICAN FIBER MANUFACTURERS ASSOCIATION

Paul T. O'Day, President

1150 17th Street NW.  
Washington, DC 20036  
(202) 296-6508 FAX: (202) 296-3052

Founded: 1933 Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Fifteen member companies of MMFPA are represented by the Association's Technical Committee on committees and task groups of ASTM, ANSI, ANMC, and NFPA.
Scope	Membership represents 90 percent of the United States producers of manmade fibers and yarns. Functions on a national scale to present the industry's position before voluntary standards groups and those government agencies that develop or reference standards applicable to the overall textile industry.

**Standardization  
Activities**

Not a standards developing organization. The association represents the industry before standards groups, such as ASTM, ANSI, and NFPA, concerned with flammability standards for textile products, including apparel and home furnishing items, such as carpets, draperies, and upholstered furniture. Cooperates with NIST, including the NIST Research Associate program, to develop meaningful and relevant flammability test procedures, such as the Carpet Flooring Radiant Panel Test Method. Represents the industry before those groups which develop or reference methods and standards for other fiber/textile properties, performance and metrication. Monitors and develops appropriate actions of those government agencies which develop or reference standards impacting the man-made fiber/textile industry.

**Keywords**

fiber; yarn; textiles; clothing; carpet; draperies; bedding; fire protection;

**AMERICAN FOREST AND PAPER ASSOCIATION**

Dr. Patricia Layton, Director, Energy and Materials Policy

Standards and Metrics Department

1111 19th Street, NW

Suite 800

Washington, DC 20036

(202) 463-2700

FAX: (202) 463-5180

Founded: 1993

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Representation**

AASHTO, ACI, ANSI, ASHRAE, ASAE, ASCE, ASTM, NFPA, ISO, TAPPI.

**Secretariats**

ANSI NDS Committee.

ASCE LRFD Committee.

U.S. TAG to ISO/TC 6 (Paper, Board and Pulps).

**Scope**

The American Forest and Paper Association (AF&PA) represents approximately 500 member companies and related trade associations (whose memberships are in the thousands) which grow, harvest, and process wood and wood fiber, manufacture pulp, paper and paper-board products from both virgin and recovered fiber, and produce solid wood products. As a single national association, AF&PA represents a vital national industry which accounts for over 7 percent of the total U. S. Manufacturing output.

Standardization Activities	AF&PA develops design and construction guidelines and standards to ensure the broadest acceptance of wood and wood products in construction and other uses. In addition, AF&PA participates in a number of standards developing committees related to the forest products industry as a whole. These committees include: ASTM D06, Paper and Paperboard; ASTM D07, Wood Products; ASTM E50, Environmental Assessment; ISO/TC 6, Paper, Board, and Pulps; and ISO/TC 207, Environmental Management Systems. Through its participation in these committees, AF&PA contributes to the development of test methods used throughout the forest products industry and ensures that the interests of the forest products industry are fully represented in the evolving area of environmental performance standards.
Availability	Standards are available directly from AF&PA.
Formerly	The American Paper Institute (API - founded 1966) and the National Forest Products Association (NFPA - founded 1902) merged in 1993 to form the American Forest and Paper Association (AF&PA).
Keywords	wood; wood products; construction; building; paper; pulp;

#### AMERICAN FOUNDRYMEN'S SOCIETY

Type of Organization	Charles H. Jones, Executive Vice President  505 State Drive Des Plaines, Illinois 60016 (708) 824-0181                      FAX: (708) 824-7848  Founded: 1896                      Standards Staff: 1
Standards Development	Technical Society Standards Developer  Standards developer since 1936. Three active standards developed under ANSI.
Certification	No certification, qualification, or accreditation programs.
Secretariats	ANSI Z241.x.
Scope	An international technical society for the metalcasting industry in North America. Develops and disseminates technical information regarding metallurgy, melting, coremaking, molding, sand practice,

and control of both the internal and external environment. Sponsors research concerning all facets of the metalcasting process and environment. Through its Cast Metals Institute (CMI), prepares and presents short courses and seminars on various subjects of interest.

Standardization Activities	Participates on a number of standards writing committees of both ANSI and ASTM.
Availability	Available directly or through ANSI.
Formerly	American Foundrymen's Association
Keywords	casting; foundry; metallurgy; materials;

#### AMERICAN FURNITURE MANUFACTURERS ASSOCIATION

Joseph Ziolkowski, Technical Director

Post Office Box HP-7  
223 Wrenn Street  
High Point, North Carolina 27261  
(919) 884-5000 FAX: (919) 884-5303  
Founded: 1984

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM, ANSI, NFPA, UFAC.
Scope	A voluntary organization of furniture manufacturers dedicated to fostering the growth and development of the furniture industry and improving the effectiveness and efficiency of the furniture manufacturers.
Standardization Activities	Develops voluntary guidelines for woven and knit upholstery fabrics through the Joint Industry Upholstered Fabric Committee.  Works with the Upholstered Furniture Action Council (UFAC) to conduct research into more cigarette resistant furniture.  Established a Joint Industry Foam Standards Committee to develop guidelines and standards for the performance and use of urethane foam.  Developed voluntary guidelines for bunk beds through the Joint Industry Bunk Bed Committee which has now been turned over to Committee F-15 in ASTM.

Formerly                      National Association of Furniture Manufacturers; Southern Furniture Manufacturers Association

Keywords                     upholstery; textiles; furniture; consumer products;

#### AMERICAN GALVANIZERS ASSOCIATION

Dr. Tom Langill, Technical Director

12200 E. Iliff Avenue

Aurora, CO 80014

(800) 468-7732

FAX: (303) 750-2909

(303) 750-2900

Founded: 1935

Type of                      Trade Association  
Organization               Works through other organizations to develop standards

Representation             Active on more than 15 standards committees of ASTM and NACE.

Scope                       Members supply over 60 percent of the galvanizing after fabrication done in North America. Aims to improve the efficiency of the industry, to encourage the application of the latest advances in technology, and to promote the wider use of hot dip galvanized products. Activities include advertising and promotion, technical services and development management advisory services, and marketing.

Standardization           Works within the voluntary standards system to coordinate industry  
Activities                   standards activities and acts as the industry voice. Areas of involvement include coating standards for hot dip galvanized (zinc-coated) steel products such as: fasteners, castings, forgings, structural shapes, tanks, fencing, piping, grating, reinforcing bars, and structural plate. Represented on American Society for Testing and Materials subcommittees concerned with development and review of specifications for galvanizing and corrosion protection.

Keywords                    galvanizing; metallic coating; corrosion protection; materials;



AMERICAN GAS ASSOCIATION

Allen J. Callahan, Manager, Standards  
International Approval Services

8501 E. Pleasant Valley Road  
Cleveland, Ohio 44131  
(216) 524-4990 FAX: (216) 642-3463  
e-mail: jcairns@apk.net

American Gas Association  
1515 Wilson Boulevard  
Arlington, Virginia 22209  
(703) 841-8400 FAX: (703) 841-8406  
e-mail: lingels@aga.com

Founded: 1918 Standards Staff: 12

Type of  
Organization

Trade Association  
Standards Sponsor

Standards  
Development

360 individuals active in standards development.  
68 active standards.  
ANSI Accredited Standards Programs.  
Draft standards available for review.

International Approval Services (IAS) is a joint venture of the American Gas Association (A.G.A.) Laboratories, and CGA Approvals, Inc. in Canada. IAS-U.S. is a wholly owned subsidiary of A.G.A. IAS provides standards secretariat services on behalf of A.G.A. for ANSI Accredited Z21, Z83 and Z223 projects, and is an ANSI accredited standards developer for LC and NGV projects. ANSI Accredited Z380 and B109 projects are managed directly by A.G.A.

Standards  
Designation

ANSI Z21.x.  
ANSI Z83.x.  
ANSI Z223.x.  
ANSI B380.x.  
ANSI B109.x.  
ANSI LC x.  
ANSI NGV x.

Secretariats

Accredited Standards Committee Z21, Performance and Installation of Gas-Burning Appliances and Related Accessories, and its 19 technical subcommittees.  
  
Accredited Standards Committee Z83, Industrial Gas Equipment Installation and Utilization, and its five technical subcommittees.  
  
Accredited Standards Committee Z223, National Fuel Gas Code, and its four advisory groups.

Accredited Standards Committee B109, Gas Displacement Meters and Service Regulators

Accredited Standards Committee Z380, Gas Piping Technology.

#### **Certification**

IAS maintains testing facilities in Cleveland, Ohio, Irvine, California, and Toronto, Ontario, Canada. Engineering Centers provide regional testing and follow-up inspection services and are located in North Carolina, Tennessee, Texas, and British Columbia, Canada. IAS is a nationally recognized third party certification agency. Gas, electric and oil equipment, and natural gas vehicle (NGV) equipment submitted voluntarily by manufacturers are tested for compliance with the applicable national standards. In the absence of a national standard, IAS develops IAS Requirements for one-of-a-kind products. Products complying with these requirements also receive design certification. Products found in compliance with the standards/requirements can display the A.G.A. and CGA seals of design approval or listing symbol, and are included in the IAS Directory of Certified Appliances and Accessories. The production of certified equipment is monitored by regular follow-up factory inspections.

IAS also provides services in accordance with ISO 9000, and environmental management system registration in accordance with the ISO 14000 series standards.

#### **Scope**

A trade association composed of about 300 natural gas distribution, transmission, gathering and marketing companies in North America, which together account for more than 90 percent of the natural gas delivered in the United States. In addition, 30 natural gas organizations from countries around the world participate in A.G.A.'s international program.

#### **Standardization Activities**

Works within the voluntary standards system to coordinate activities relative to national standards of interest to the gas industry. While not a standards developing organization, the Association actively participates in national standards development, including appointment of Association representation in the areas of gas utilization equipment and its installation, and gas operating equipment and supplies.

Functions as the Administrative Secretariat to five Committees whose operating procedures are accredited by ANSI as demonstrating the principles of due process and consensus. These five committees have 30 technical subgroups; supervise 49 standards covering residential gas appliances and accessories, 14 standards covering commercial and industrial gas equipment, three standards on gas displacement meters, one pending standard on service regulators, a standard covering the installation of gas piping, appliances and appliance venting, and a standard guide for Gas Transmission and Distribution Piping Systems.

In addition, IAS supervises one "LC" standard for corrugated stainless steel house piping, one pending "LC" standard for agricultural heaters, three "NGV" (natural gas vehicle) equipment standards, and eight pending "NGV" standards.

80 A.G.A. members and 26 staff participate in standardization activities of 62 standards developing committees of other organizations, including ASTM, ASME, NFPA, API and a number of American National Standards Committees.

**Availability**

Standards distributed by A.G.A. and through ANSI, IHS and Global.

**Formerly**

A.G.A. was formed by merger of the Gas Institute and National Commercial Gas Institute.

IAS is a joint venture of the A.G.A. laboratories and CGA Approval, Inc.

**Keywords**

fuel gas; natural gas; energy; building; consumer products; appliances;

**AMERICAN GEAR MANUFACTURERS ASSOCIATION**

Joe T. Franklin, Jr., Executive Director

1500 King Street  
Suite 201  
Alexandria, Virginia 22314  
(703) 684-0211 FAX: (703) 684-0242  
e-mail: agma@clark.net

Founded: 1916 Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

35 committees, and 200 members participate in standards.  
60 active standards; 37 processed through ANSI.  
Draft standards and revisions available for review by interested parties.

Standards Designation	AGMA prefix.
Secretariats	Secretariat to ISO/TC 60. U.S. Technical Advisory Group to ISO/TC 60.
Scope	Membership includes a majority of the principal manufacturers of gears, speed reducers and increasers in the United States and Canada. Develops standards to promote a common language for the industry. Scope has increased to developing a wide variety of public and economic programs which assist member companies to compete more effectively. Through the Administrative Division supports 6 Councils concerning itself with marketing programs, public and government affairs as well as statistical information services.
Standardization Activities	Standards cover such areas as: gear industry nomenclature; gear specification drawings; hobs and shaper-cutters; application classification of gear motors and other types of speed reducers; standards on tooth form geometry; strength and durability formulas; inspection methods and practices; gear blank materials; lubrication of open or enclosed gearing; design and rating of speed reducers; spur, helical, herringbone, worm, bevel, fine pitch, aerospace gears. Standards committees are listed in the Annual AGMA Directory.  Maintains liaison with the American National Standards Institute, American Society of Mechanical Engineers, Society of Automotive Engineers, Metal Cutting Tool Institute, Cooling Tower Institute, Machinery and Allied Products institute, National Machine Tool Builders Association, American Petroleum Institute, and other technical organizations. Participates in the International Organization for Standardization (ISO), through the facilities of ANSI. Also cooperates with the Federal Government in standardization activities.
Availability	Sold directly and through IHS and Global.
Keywords	gears; gearing; speed reducers; gearmotors; lubrication; gear design; machinery;

AMERICAN HARDBOARD ASSOCIATION

C. Curtis Peterson, Executive Vice President

1210 W. Northwest Highway  
Palatine, Illinois 60067  
(708) 934-8800 FAX: (708) 934-8803

Founded: 1976 Standards Staff: 4

Type of  
Organization

Trade Organization  
Standards Developer

Standards  
Development

Standards developed through ANSI.

Standards  
Designation

ANSI/AHA prefix.

Government  
Adoption

Government references ANSI/AHA standards in Government standards and guide specifications.

Certification

Quality Conformance Programs for Hardboard Siding based upon ANSI 135.6.

Scope

Represents manufacturers of hardboard products used for exterior siding, interior wall paneling, household and commercial furniture, and industrial and commercial products. Serves as the central clearing house on industry and technical information for architects, builders, contractors, distributors, dealers, government agencies, and the general public. Coordinates industry effort for statistical reports, standard/specification programs, research activities, building codes, environmental affairs, educational publications, manufacturing and safety activities, and governmental relations.

Standardization  
Activities

Develops standards for hardboard, hardboard prefinished paneling, hardboard siding, and fiberboard products. Works with building code organization for effective utilization of these products. Administers a quality conformance program for hardboard siding.

Availability

Sold directly and through ANSI.

Keywords

hardboard; fiberboard; building; materials;



## AMERICAN HELICOPTER SOCIETY

M. E. Rhett Flater, Executive Director

217 North Washington Street  
Alexandria, Virginia 22314  
(703) 684-6777

FAX: (703) 739-9279

Founded: 1943

Standards Staff: 1

**Type of  
Organization**

Professional Society  
Works through other organizations to develop standards

**Representation**

DoD, FAA, NASA, SAE, International Civil Aviation Organization (ICAO), JAA and other organizations.

**Scope**

A technical professional organization dedicated to the advancement of all types of vertical flight technologies. Membership includes all the major helicopter air frame, engine, and systems manufacturers worldwide. Provides the principal forum for the exchange of technical information pertaining to the realm of vertical flight. Representation includes military and civil, governmental and educational institutions and activities. Maintains a specialized technical reference library.

**Standardization  
Activities**

Maintains 13 technical committees with interests in acoustics, aerodynamics, aircraft design, avionics and systems, crash safety, commercial aerodynamics, operators, dynamics, handling qualities, icing manufacturing and product assurance, propulsion, structures and materials, test and evaluation, crew stations and human factors, flight simulation, military operations, and product support.

**Keywords**

vertical flight; helicopter; rotorcraft; aerodynamics; aeronautics; propulsion; avionics; acoustics; defense; aerospace; transportation;

## AMERICAN HOSPITAL ASSOCIATION

Douglas S. Erickson, Director Design and Construction

Office of Health Facilities Management  
One North Franklin Avenue  
Chicago, Illinois 60606  
(312) 422-3858

FAX: (312) 422-4571

Founded: 1898

Type of Organization	Trade/Professional Association Works through other organizations to develop standards
Representation	National Institute of Standards and Technology, Agencies within the Department of Health and Human Services and the Department of Labor, ANSI, NFPA, ASTM, EPA, OSHA and others.
Scope	Provides education, research, and representation services for 5000 hospitals, health care systems, networks and other providers.
Standardization Activities	<p>The Office of Health Facilities Management has the primary responsibility for codes and standards advocacy activities related to hospital planning, design, engineering, equipment, supplies and facilities management. Maintains liaison with national organizations and government agencies concerned with the development of standards. Major goal is the development of standards which are based on knowledge, cost/benefit analysis and a statistical profile establishing need.</p> <p>Liaison activities include recommendation, review, revision and testimony on standards. Actively participates in the development of standards for: fire and life safety; hospital engineering; equipment and facilities; infection control; hospital supplies; and environmental issues.</p>
Keywords	hospital; life safety; material management; hospital equipment; health care; facilities management;

#### AMERICAN HOTEL AND MOTEL ASSOCIATION

Kenneth F. Hine, Executive Vice President and Chief Executive Officer

1201 New York Avenue, NW  
Washington, DC 20005-3917  
(202) 289-3100

FAX: (202) 289-3104

Founded: 1910

Standards Staff: 2

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ANSI, ASTM, UL.
Scope	An international trade association representing the hotel and motel industry with primary efforts directed to the United States.

Standardization Activities	Cooperates with other organizations in standards development. Adoption of any standards by an individual hotel/motel property is solely on a voluntary basis. Maintains liaison with the National Fire Protection Association, the National Institute of Standards and Technology, the National Institute of Building Sciences and the U.S. Fire Administration and the American Society for Testing and Materials. Works with the National Legislative Conference on Arson to support arson control.
	Involved in code activities of Building Officials and Code Administrators International, International Conference of Building Officials, National Conference of States on Building Codes and Standards, Southern Building Code Congress International, and Western Fire Chiefs Association.
	Active in ASME's development of USA Standards Safety Code for Elevators, Dumbwaiters, and Escalators; and USA Recommended Practice for the Inspection of Elevators. Represented on various committees of ANSI, ASTM, and UL.
Formerly	American Hotel Protective Association (1917) American Hotel Association (1962)
Keywords	hotels; motels; safety; fire protection;

#### AMERICAN INDUSTRIAL HYGIENE ASSOCIATION

	O. Gordon Banks, Executive Director	
	2700 Prosperity Avenue Suite 250 Fairfax, Virginia 22031-4311 (703) 849-8888	
		FAX: (703) 207-3561
	Founded: 1939	Standards Staff: 2
Type of Organization	Professional Society Standards Developer	
Secretariats	ANSI Z9 committee.	
Scope	Objectives are to increase the knowledge of industrial hygiene through interchange and dissemination of information; promote the study and control of environmental factors affecting the health and well-being of workers in the workplace; correlate such activities as are conducted by individuals and agencies throughout industrial, educational, and governmental groups; and bring together persons interested in all aspects of the profession. Acts as clearinghouse for information on occupational health and safety. Brings together members of the profession through the	

formation of technical committees, local chapters and the conducting of continuing education course work and an annual meeting.

**Standardization Activities** This association operates as a standards developer, acting as secretariat for ANSI's Z9 committee and through comments by the association's 44 technical committees on public policy.

**Keywords** industrial hygiene; environmental; occupational safety; public health;

#### AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS

James E. French, Director of Standards

1801 Alexander Bell Drive  
3rd Floor  
Reston, Virginia 22091  
(703) 264-7570 FAX: (703) 264-7551  
e-mail: standards@aiaa.org

Founded: 1963 Standards Staff: 2

**Type of Organization** Professional Society  
Standards Developer

**Standards Development** Standards developer since 1980; accredited by ANSI in 1987.  
Approximately 300 participants.  
30 active standards; five distinctly metric.  
66 percent American National Standards.  
Draft standards available for review directly.

**Standards Designation** Standard: ANSI/AIAA S-017-1991.  
Recommended Practice: ANSI/AIAA R-004-1992.  
Guide: ANSI/AIAA G-057-1994.  
Special Report: A SP-069-1995.

**Government Adoption** Four adopted or referenced by DoD; one by DoT.

**Certification** No certification, qualification, or accreditation programs.

**Secretariats** ISO TC 20/SC 14, Space Systems and Operations.

**Scope** Advances the arts, sciences, and technology of aeronautics and astronautics, and nurtures and promotes the professionalism of those engaged in these pursuits. Serves the needs and professional interests of members, and improves public understanding of the profession and its contributions.

Standardization Activities	Directs activities toward achieving technical understanding in advance of new aerospace hardware and software designs and development. Works closely with the Department of Defense and National Aeronautics and Space Administration, encouraging direct participation of industry, academia and Government representatives in meetings and activities of the standards committees.
Availability	Distributed directly.
Formerly	American Rocket Society (1930) Institute for Aeronautical Sciences (1932) Institute for Aerospace Science (1960)
Keywords	aerospace; aeronautics; astronautics; spacecraft; launch vehicles; spacecraft; space systems;

#### AMERICAN INSTITUTE OF ARCHITECTS

Type of Organization	Terrence McDermott, Executive Vice President/CEO  1735 New York Avenue, NW Washington, DC 20006 (202) 626-7300  Founded: 1857
Scope	Serves the needs and improves the capability of architects; conducts public relations and educational programs. Encourages the utilization of national consensus codes and standards.
Standardization Activities	Maintains liaison with model building code organizations and standards writing groups within the industry. Several hundred AIA members work within the framework of the AIA Codes and Standards Committee.  Issues a variety of contract forms and formulates recommendations concerning size and character of building product literature directed to the architect. Active in development of a uniform system for correlation of a specifications outline, a filing system for product data, and project cost accounting guide.



Availability	Directly and through IHS.
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Directly and through IHS.

**Keywords** architecture; building;

architecture; building;

## AMERICAN INSTITUTE OF PHYSICS

Marc H. Brodsky, Executive Director

## One Physics Ellipse

College Park, Maryland 20740

(301) 209-3131

FAX: (301) 209-3133

Founded: 1931

Type of Organization	Scientific Society Standards Developer
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Scientific Society

## Standards Developer

Scope	A nonprofit membership corporation which promotes the advancement of physics and its application to human welfare.
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A nonprofit membership corporation which promotes the advancement of physics and its application to human welfare.

Standardization Activities	Standards, including Secretariats or Committees, are provided by the Acoustical Society of America and the Optical Society of America. Both are Member Societies of AIP. AIP publishes and distributes standards for the Acoustical Society of America.
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Standards, including Secretariats or Committees, are provided by the Acoustical Society of America and the Optical Society of America. Both are Member Societies of AIP. AIP publishes and distributes standards for the Acoustical Society of America.

Availability	Distributed directly.
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Distributed directly.

**Keywords**                    optics; acoustics;

optics; acoustics;

AMERICAN INSTITUTE OF STEEL CONSTRUCTION

Neil W. Zundel, President

One East Wacker Drive

Suite 3100

Chicago, Illinois 60601-2001

(312) 670-2400

Founded: 1921

Standards Staff: 3

Type of Organization	Trade Association Standards Developer
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Trade Association

## Standards Developer

Government Specifications for Structural Steel for Buildings has been widely Adoption adopted by building code bodies and Government agencies.

Specifications for Structural Steel for Buildings has been widely adopted by building code bodies and Government agencies.

Scope	<p>A nonprofit trade association representing and serving the fabricated structural steel industry in the United States. Improves and advances the use of fabricated structural steel through marketing and technical research aimed at developing the most efficient, safe, and economical design and fabrication of steel framed structures.</p> <p>Provides a variety of services to the construction industry, design profession, and steel fabricating companies including specifications, technical publications, design aids, research and development programs, plus informational and educational services conducted nationally, plus quality certification programs.</p>
Standardization Activities	<p>Publishes the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, and the Manual of Steel Construction. Also publishes the AISC Code of Standard Practice and a number of specifications for materials, products, and assemblies which may be used in steel framed structures. The specifications and the manual are accepted and used universally by architects, engineers, building code bodies and government agencies.</p>
Availability	Distributed directly and through IHS and Global.
Keywords	steel; structural; construction; building;

#### AMERICAN INSTITUTE OF TIMBER CONSTRUCTION

Matthew C. Mathias, Executive Vice President

7012 S. Revere Parkway  
Suite 140  
Englewood, Colorado 80112  
(303) 792-7557

FAX: (303) 792-0669

Founded: 1952

Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	<p>Standards developer since 1952.</p> <p>200 members have opportunity to participate in standards activities.</p> <p>15 active standards.</p> <p>One processed through ANSI.</p>
Standards Designation	AITC prefix.

Government Adoption	Adopted by local, regional, and state building codes and federal government agencies.
Certification	Licenses qualified timber lamination plants to mark and certify products as being in conformance with ANSI/AITC A190.1.
Secretariats	ANSI/AITC A190.1.
Scope	The American Institute of Timber Construction is the national technical trade association of the structural glued laminated timber (glulam) industry.
Standardization Activities	AITC's standardization activities are administered by the Institute's staff with the advice and assistance of the AITC Technical Advisory Committee. In addition to industry standards related to structural glued laminated timber and heavy timber construction, AITC has used the ANSI canvass procedure to develop ANSI/AITC A190.1, "Structural Glued Laminated Timber", which is the basis for the Institute's quality control certification program. ANSI and industry standards are adopted by building code agencies to govern the use of structural glued laminated timber. Standards specify design and manufacturing requirements.
Availability	Sold directly.
Keywords	wood; glulam; structural; laminated timber; construction; building;

#### AMERICAN INSURANCE SERVICES GROUP

	Gerald E. Lingenfelter, Vice President Engineering and Safety Service
	85 John Street New York, New York 10038 (212)669-0475
	FAX: (212)669-0550
	Founded: 1984
	Standards Staff: 12
Type of Organization	Trade Association Works through other organizations to develop standards.
Representation	ANSI, ASTM, NFPA, UL, etc.
Scope	This subsidiary of the American Insurance Association represents 325 companies providing commercial property casualty and liability insurance. Endeavors to reduce and control life and property losses as well as injuries, and damage to health and the environment thereby enhancing the general public's safety, health, and welfare. Publishes technical information reports on industrial safety and hygiene, fire protection, construction, crime preven-

tion, special hazards, workers' compensation, motor vehicle safety, product safety, and environmental science.

**Standardization  
Activities**

Engineering and Safety Service administers standardization activities. Participates in nearly 100 standards writing committees of the American National Standards Institute, National Fire Protection Association, American Society for Testing Materials, Underwriters Laboratories Incorporated, and others that deal with the areas of fire protection, nuclear, chemical and environmental concerns, construction and construction safety, commercial motor vehicles, safety of personnel in the workplace, crime, and concerns regarding products, boilers, and machinery.

**Formerly**

Created by the merger of National Board of Fire Underwriters, Association of Casualty and Surety Companies, and American Insurance Association (1964); became a subsidiary in 1984.

**Keywords**

occupational safety; crime prevention; motor vehicle safety; fire protection; industrial hygiene; product safety; insurance; environmental science; safety; construction; less control;

**AMERICAN IRON AND STEEL INSTITUTE**

Andrew G. Sharkey, III, President

1101 17th Street, NW.  
Washington, DC 20036  
(202) 452-7100

FAX: (202) 463-6573

Founded: 1855

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Three design specifications.

**Standards  
Designation**

As a result of early standardization efforts of the Automobile Manufacturers Association at the beginning of this century and present work by the Society of Automotive Engineers and AISI, numerical designations of steels which only refer to chemical composition ranges and limits are often identified as AISI/SAE "Standard Steels."

<b>Government Adoption</b>	The design specifications are referred to in building codes and state and federal specifications for construction.
<b>Secretariats</b>	U.S. Technical Advisory Group for ISO Technical Committee 167 on Steel and Aluminum Structures.
<b>Scope</b>	Activities include research, technology, and engineering, collection and dissemination of statistics, public distribution of information about the industry and its products, public affairs, and discussion of industrial relations, including health, safety, and hygiene.
<b>Standardization Activities</b>	Developed and published design specifications for cold-formed steel structural members and for light-gage cold-formed stainless steel structural members.  Actively supports standardization activities through participation in the work of standards boards and committees of American National Standards Institute, American Society of Civil Engineers, American Society for Testing and Materials, National Fire Protection Association, and others.
<b>Availability</b>	Distributed directly and through IHS and Global.
<b>Formerly</b>	American Iron and Steel Association (1912)
<b>Keywords</b>	steel; stainless steel; structural members; construction; materials;

#### AMERICAN LADDER INSTITUTE

	Joseph E. Ziemba, Executive Director
	c/o Smith, Bucklin and Associates 401 North Michigan Avenue Suite 2400 Chicago, Illinois 60611 (312) 644-6610
	FAX: (312) 321-6869
	Founded: 1935
	Standards Staff: 1
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards Developer since late 1930s. 5 active standards. All processed through ANSI.
<b>Standards Designation</b>	ANSI 14.x.



Secretariats	Accredited Standards Committee, A14 Ladder Safety Committee.
Scope	A national trade association representing United States companies engaged in the research, development, manufacture, and safety of ladders. Represents its membership in industry matters.
Standardization Activities	Promotes uniform design and manufacturer specifications and ladder safety. Works with government bodies, particularly NIOSH, OSHA and CPSC, in addressing design questions. Participates in activities related to production equipment used in making ladders. Current standards include: A14.1 Portable Wood Ladder; A14.2 Portable Metal Ladder; A14.3 Fixed Ladder; A14.5 Portable Reinforced Plastic; A14.7 Rolling Ladders; A14.8 Ladder Accessories.
Availability	Sold directly through ANSI.
Keywords	ladders; wood; metal; fiberglass; reinforced plastic; rolling ladder stands; industrial equipment; consumer products; safety; portable; fixed; accessories; step;

#### AMERICAN LAMINATORS ASSOCIATION

Arthur S. Langlie, Executive Director

P. O. Box 2209  
 Seattle, Washington 98111-2209  
 (206) 382-1671

Founded: 1984

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	1 active standard.
Standards Designation	ALA-1992: The Performance Standard For Thermoset Decorative Panels.
Certification	Self-certification by each manufacturing member.
Scope	A national trade association of the thermoset decorative panel industry with members throughout the United States and Canada.
Standardization Activities	American Laminators Association promotes thermoset decorative panels meeting the performance standard ALA 1992 under its registered trademark PERMALAM. Those panels are produced by ALA manufacturing members throughout the United States and Canada, and the panels are for decorative uses primarily in cabinetry, fixtures, furniture, and other interior uses.

Availability Sold directly.

Keywords laminated panels; building; materials;

AMERICAN LEATHER CHEMISTS ASSOCIATION

Velma Becker, Executive Secretary

c/o University of Cincinnati  
P. O. Box 210014  
Cincinnati, Ohio 45221-0014  
(513) 556-1197 FAX: (513) 556-2377

Type of Technical Society  
Organization Standards Developer

Standards 150 standard test methods.  
Development

Scope Chemists, leather technologists, and educators concerned with the tanning and leather industry. Objectives are to devise and perfect methods for the analysis and testing of leathers and materials used in leather manufacture; to promote advancement of chemistry and other sciences in their application to leather related problems.

Standardization Maintains technical committees which develop methods of analysis  
Activities and testing. Final methods published as the official methods of the association. Works with the American Society for Testing of Materials to coordinate physical test methods. Member of the International Union of Leather Chemists Society and participates in the development of methods for international use.

ALCA methods are incorporated in industry specifications. Members include representatives from government concerned with leather or leather products. Closely affiliated with the Leather Industries of America, formerly the Tanners Council of America.

Keywords leather; tanning; laboratory testing; materials;

AMERICAN LIBRARY ASSOCIATION

Elizabeth Martinez, Executive Director

50 East Huron Street  
Chicago, Illinois 60611  
(312) 944-6780

FAX: (312) 440-9374

Founded: 1876

Standards Staff: 4

Type of  
Organization

Professional Association  
Standards Developer

Representation

National Information Standards Organization (NISO).

Scope

Promotes libraries and librarianship to assure the delivery of user-oriented information service to all. Establishes standards of service, support, education, and welfare for libraries and library personnel; safeguards the professional status of librarians; promotes popular understanding and public acceptance of the value of the library service.

Standardization  
Activities

Develops standards and guidelines both quantitative and qualitative for library service and librarianship. Standards and guidelines adopted by ALA or its units include College Library Standards; Standards for Faculty Status for College and University Libraries; Standards for University Libraries; Statement of Quantitative Standards for Two-Year Learning Resources Programs; Library Standards for Adult Correctional Institutions; Library Standards for Jails and Detention Facilities; Library Standards for Juvenile Correctional Institutions; Standards for Accreditation; Standards for Libraries at Institutions for the Mentally Retarded; Standards of Service for the Library of Congress National Library Service Network of Libraries Serving the Blind and Physically Handicapped.

Also works through committees and assists in the development of uniform codes for analyzing and cataloging information.

Availability

Sold directly.

Keywords

library; librarianship; physically handicapped; education;

## AMERICAN LIGHTING ASSOCIATION

Richard D. Upton, CCE, President

P. O. Box 420288  
2050 Stemmons Freeway  
Dallas, Texas 75342-0288  
(214) 698-9898

FAX: (214) 698-9899

Founded: 1943

Standards Staff: 1

### Type of Organization

Trade Association  
Works with other organizations to develop standards

### Representation

UL; Luminaire Harmonization.

### Scope

Represents manufacturers of lighting fixtures, portable lamps, lamps (bulbs) and lighting accessories. Also represents lighting showrooms and manufacturers' representatives. Monitors and reacts to issues that affect UL listing of products and to regulatory changes that affect the industry. Conducts educational programs.

### Standardization Activities

Actively involved with Underwriters Laboratories with matters affecting the UL standards for all lighting fixtures and portable lamps. Works with CSA to provide harmonization of standards between Canada and the United States. Works with NOM to enable importation of lighting products from Mexico.

### Formerly

American Home Lighting Institute

### Keywords

lighting; fixtures; track lighting; recessed; landscape lighting; low voltage;

## AMERICAN LUMBER STANDARDS COMMITTEE

Thomas D. Searles, Executive Vice President

P.O. Box 210  
Germantown, Maryland 20875  
(301) 972-1700

FAX: (301) 540-8004

Founded: 1922

Standards Staff: 5

### Type of Organization

Standards Developing Organization  
Standards Developer

### Standards Development

Sets the standards under which virtually all of the lumber in the United States and Canada is produced.

**Government  
Adoption**

Widely used by federal and local government agencies.

**Scope**

This committee serves in the Department of Commerce's Voluntary Product Standards Program. It maintains PS 20, which provides terminology, classification of American Standard Lumber, measurement and tally (sizes) requirements for grading rules, grade marking (labeling), inspection and reinspection (upon complaint), Committee functions, Board of Review (accreditation board) functions, the National Grading Rule Committee membership and functions, commercial names of principal softwood species, definitions of terms and lumber abbreviations. It is implemented through an internationally recognized consensus accreditation and certification program, the purpose of which is to provide for uniform, industry-wide grade marking and inspection of softwood lumber and the preservative pressure treatment of certain wood products. Its Board of Review accredits four grading agencies and six rules-writing agencies in the United States and 15 grading agencies and one rules-writing agencies in the Canada to grade mark untreated lumber. It also accredits 4 laboratories and 8 agencies that supervise the labeling of the preservative pressure treatment of certain wood products using AWWA standards. The committee consists of 22 representatives and 22 alternate groups of lumber manufacturers, lumber inspection agencies, engineers, architects, home builders, wholesalers, retailers, millwork manufacturers, wood using industries and other consumers, as well as four ex officio nonvoting government agency representatives appointed by the Secretary of Commerce.

**Standardization  
Activities**

Acts to consider revisions or amendments to the PS 20.  
Elects a Board of Review and adopts policies used by the Board in carrying out its accreditation functions. Principal functions of the Board are to review and approve lumber grading rules submitted by agencies to assure they conform to the American Lumber Standards requirements; reviews and approves grading agencies; and continuously reviews adequacy, competency and reliability of approved agencies. Elects a Board of Review and adopts policies used by the Board in carrying out its functions.

Principal functions of the Board are to review and approve rules submitted by agencies to ensure that they conform to the American Lumber Standards requirements; review and approve grading agencies; and to continuously review adequacy, competency and reliability of approved agencies.



Formerly Central Committee on Lumber Standards (1941)

Keywords lumber; construction; building; wood; grading; inspection;

AMERICAN MEDICAL ASSOCIATION

James S. Todd, M.D., Executive Vice President

515 North State Street  
Chicago, Illinois 60610

(312) 464-5000 FAX: (312) 464-4184

Founded: 1846 Standards Staff: 7

Type of Organization Professional Society  
Standards Developer

Standards Development Develops advisory standards.  
None processed through ANSI.

Scope A national organization of physicians whose objective is to foster the advancement of medical science, medical practice, and the public health.

Standardization Activities Develops advisory standards dealing with drug evaluation, diagnostic and the therapeutic technology assessment, guides to the evaluation of physical impairment, physical fitness standards for industry, undergraduate medical education, hospital residency training programs, and continuing medical education. Maintains close liaison with the Federal Government in matters of drug nomenclature (through the United States Adopted Names Council), medical and device evaluation at the post-marketing level of surveillance, and other issues of a scientific nature that arise in the practice of medicine.

Issues reports relating to guidelines for the determination of permanent impairment, and many other issues relative to the medical diagnosis and management of patient problems.

Availability Distributed directly.

Keywords medicine; medical; drugs; health care;

## AMERICAN NATIONAL METRIC COUNCIL

Ann T. Loew, Executive Director

4330 East West Highway  
Suite 1117  
Bethesda, Maryland 20814  
(301) 718-6508  
e-mail: anmcmetric@aol.com

FAX: (301) 656-0989

Founded: 1973

Standards Staff: 1

### Type of Organization

Trade Association  
Works through other organizations to develop standards

### Scope

A private, nonprofit organization dedicated to planning, coordinating, and facilitating voluntary metric transition activities in various sectors of the United States economy. A focal point for private sector metric transition planning activity and information.

Distributes information about metric activities in the United States, Canada, and around the world. Publishes a newsletter and special issue papers. Conducts conferences, seminars, and educational workshops. Supplier of metric training and assistance publications and products.

### Standardization Activities

Assists standards making bodies by identifying needs for standards in SI units, evaluating priorities, and making recommendations for standards development.

### Availability

Distributed directly.

### Keywords

metric; measurement; international trade; manufacturing; business; general;

## AMERICAN NATIONAL STANDARDS INSTITUTE

Sergio Mazza, President

Headquarters  
11 West 42nd Street  
New York, New York 10036  
(212) 642-4900  
WWW: <http://www.ansi.org/>

FAX: (212) 398-0023

ANSI Public Policy and Government Relations  
ANSI Conformity Assessment  
655 15th Street, NW  
Suite 300  
Washington, DC 20005-5794  
(202) 639-4090

FAX: (202) 628-1886

**Type of  
Organization**

Standards coordinating and approval organization.  
Does not develop standards.

**Standards  
Designation**

11 180 standards approved by ANSI are designated American National Standards.

**Government  
Adoption**

American National Standards and ANSI's third party product accreditation programs are adopted and referenced by government at the federal, state, and local levels.

**Certification**

ANSI accredits third party product certification programs in accordance with ANSI Z 34.1 and ISO/CASCO Guides. ANSI's program is nationally and internationally recognized. ANSI has established Memoranda of Understanding with several international accreditation organizations. Oversight of ANSI's accreditation programs is provided by the Accreditation Committee, which is comprised of government, certifier and industry representatives and operates under due process and consensus procedures. A list of accredited third party certification programs is available upon request.

ANSI jointly operates with the Registrar Accreditation Board, the American National Accreditation Program for Registrars of Quality Systems. Registrars are accredited to perform registrations/certifications of organizations in accordance with ISO 9000 series standards. The ANSI/RAB program is nationally and internationally recognized. ANSI has established Memoranda of Understanding with several international accreditation organizations. The program is operated under due process and consensus procedures. A list of accredited registrars is available upon request.

ANSI is establishing a national program to accredit ISO 14000 Environmental Management Systems (EMS) registrars, auditors, certifiers, and auditor training providers. Registrars already accredited to the ANSI/RAB ISO 9000 program will only be required to demonstrate compliance with any additional requirements that apply specifically to EMS activities.

**Scope**

The ANSI federation is a partnership of standards developers, trade associations, labor unions, professional societies, industry, consumers, academia and government agencies. ANSI does not write standards; it serves as a catalyst for standards development by its diverse membership. ANSI is a nonprofit privately funded membership organization that coordinates the United States voluntary standards system to develop voluntary standards. 265 professional and technical societies, and trade associations that develop standards in the United States are members of ANSI; 1100 companies are members.

ANSI performs the following major functions:

- coordinates the development of voluntary national standards in the United States;
- approves standards as American National Standards;
- enables United States participation in non-treaty international standards developing organizations, such as the International Organization for Standardization (ISO), the International Electrotechnical Commission (IEC), and the European Telecommunications Standards Institute (ETSI);
- serves as the United States source and information center for strategic standardization and for all American National Standards and those issued by ISO, IEC, and their members;
- maintains interface with government at all levels on standards related matters.

#### Standardization Activities

##### National Coordination -

Coordinates and harmonizes private sector standards activity in the United States and accreditation of standards developers. It assists participants in the voluntary standards system to reach agreement on the needs for standards, encourages qualified organizations to develop them, and follows up on progress. It provides standards developers with procedures and services to use their resources effectively, avoid duplication of effort, and resolve conflicts.

##### Approval of American National Standards -

Standards are approved by ANSI as American National Standards when ANSI finds that its criteria for due process have been met and that a consensus for approval exists among those directly and materially affected.

##### International Management and Coordination -

ANSI is the United States member of the International Organization for Standardization (ISO) and, through the U.S. National Committee, the International Electrotechnical Commission (IEC). The Institute manages, coordinates, and provides financial and administrative support for United States participation in these two major nongovernmental standards developing bodies. With the support of its members and other cooperating bodies, the Institute participates in some 2000 ISO technical committees and subgroups. It administers the secretariats of 30 ISO technical committees, 88 subcommittees, and 392 working groups. It helps govern ISO through membership on its Council and Executive and Planning Committees.

The U.S. National Committee of IEC, which is a committee of ANSI, participates in 90 percent of the International Electrotechnical Commission's technical programs and is represented on IEC's policy-making council and committees. It holds the secretariat of 13 IEC technical committees and 20 subcommittees.

#### Clearinghouse and Information Center -

Serving as the clearinghouse and information center for national, international, regional, and foreign national standards is another of ANSI's functions. The following are available from ANSI:

All 11 180 approved American National Standards.

ISO and IEC International Standards.

ISO and IEC Draft International Standards.

CEN Proposals - Draft European Standards developed and issued for preliminary vote by the European Committee for Standardization (CEN).

Draft specifications of the Electronic Components Committee of CENELEC - the European Committee for Electrotechnical Standardization.

Standards of 106 other national standards organizations that belong to ISO.

Latest catalogs issued by ISO, IEC, and their members.

#### Interface with Government -

Furnishes advice, counsel, and testimony to congressional committees and state and local legislative bodies. It encourages government agencies to participate in voluntary standards activities and to use voluntary standards, where appropriate. Close cooperative ties exist between ANSI and individual federal agencies. For example: The Department of Defense, General Services Administration, and National Institute of Standards and Technology are ANSI members. An ANSI-Consumer Products Safety Commission Coordinating Committee works to enhance overall cooperation between CPSC and private sector organizations that develop standards for consumer products and services. An ANSI-OSHA (Occupational Safety and Health Administration) Coordinating Committee performs a similar function in the area of standards for industrial safety.

#### Formerly

American Engineering Standards Committee (1918);

American Standards Association (1928);

United States of America Standards Institute (1968);



**Keywords** national standards; international standards; voluntary standards; standards coordination; general; regional standards; foreign standards; conformity assessment; certification; registration; accreditation;

## AMERICAN NUCLEAR SOCIETY

Marilyn D. Weber, Manager, Standards Department

555 North Kensington Avenue

La Grange Park, Illinois

(708) 352-6611

FAX: (708) 352-6464

e-mail: mweber@ans.org

Founded: 1954

Standards Staff: 2

**Type of Organization** Scientific and Professional Society  
Standards Developer

**Standards Development** 125 active projects.  
103 approved standards.  
All processed through ANSI.  
Draft standards available for review.

**Standards Designation** ANS prefix.

**Government Adoption** A number of NRC Regulatory Guides reference ANS standards; several standards are referenced in the Code of Federal Regulations.

**Secretariats** N16, Nuclear Criticality Safety.  
N17, Research Reactors, Reactor Physics, and Radiation Shielding.  
N48, Radioactive Waste Management.  
American Nuclear Society Nuclear Power Plant Standards Committee (NUPPSCO).

**Scope** A nonprofit, international, scientific, engineering and education organization. Aims to advance science and engineering related to the atomic nucleus and allied sciences and arts and to integrate the disciplines constituting nuclear science and technology.

**Standardization Activities** Maintains a standards committee which ascertains the need for standards in the nuclear field, develops such standards, and cooperates with other organizations to develop standards. Maintains 16 subcommittees in the areas of nuclear design criteria, reactor operations, performance criteria, radiation protection, nuclear criticality safety, research reactors, reactor physics, computational methods, fuel and waste management, and environmental remediation of radioactively contaminated sites.

Availability	Sold directly and through ANSI and Global. Microform and CD-ROM copies are available through Information Handling Services.
Keywords	reactor; radioactive waste; nuclear; nuclear power plant; radiation shielding; energy; safety; criticality safety; research reactor; and environmental remediation;
<b>AMERICAN OCCUPATIONAL MEDICAL ASSOCIATION</b>	
	Donald L. Hoops, Ph.D., Executive Vice President
	55 West Seegers Road Arlington Heights, Illinois 60070 (708) 228-6850
	Founded: 1916 Standards Staff: 1
Type of Organization	Professional Society Standards Developer
Certification	Provides recognition of achievement and studies in Occupational Medical Practice via the Association's Basic Curriculum Program in Occupational Medicine.
Scope	Represents the profession in matters pertaining to Occupational and Environmental Medical Practice.
Standardization Activities	Actively participates in various standards developing committees. Sets forth acceptable medical practices in the form of recommended guidelines. Comments on and suggests modifications to all related federal legislation.
Availability	Distributed directly.
Keywords	occupational medicine; public health; health care; environmental;

AMERICAN OIL CHEMISTS SOCIETY

J. Lyon, Executive Director

P.O. Box 3489

Champaign, Illinois 61826-3489

(217) 359-2344

FAX: (217) 351-8091

Founded: 1909

Standards Staff: 4

Type of  
Organization

Scientific Society  
Standards Developer

Standards  
Development

Standards Developer since 1909.  
300 committee members participate in standards activities.  
410 active standards.  
None processed through ANSI

Certification

The Society certifies Approved Chemists and Certified Laboratories through its Examination Board.

Scope

A scientific organization concerned with basic research on animal, marine, and vegetable oils and fats, including their extraction, refining, use in consumer and industrial products, safety, packaging, and quality control.

Standardization  
Activities

Publishes the Official Methods and Recommended Practices of the American Oil Chemists Society, a result of the work of various technical committees. Offers accurately tested and graded natural bleaching earth, activated bleaching earth, refining cups and other materials, all designed for use with specific methodology.

Sponsors joint committees with the American Society for Testing and Materials, Association of Official Agricultural Chemists, and American Association of Cereal Chemists. Representation maintained on committees of the American Association for the Advancement of Science, National Fire Protection Association, National Research Council, U.S. Technical Advisory Group for ISO/TC 34, and the Codex Alimentarius Committee on Fats and Oils.

Availability

Sold directly.

Formerly

Society of Cotton Products Analysts (1922)

Keywords

fats; vegetable oil; fish oil; analysis; oil extraction; oil refining; food; laboratory testing;

## AMERICAN OPTOMETRIC ASSOCIATION

Earle L. Hunter, O.D., Executive Director

243 North Lindbergh Boulevard

St. Louis, Missouri 63141

(314) 991-4100

FAX: (314) 991-4101

Founded: 1898

Standards Staff: 2

### Type of Organization

Professional Society

Works through other organizations to develop standards

### Representation

ANSI, ISO, IEC.

### Certification

Council on Optometric Education accredits and certifies schools and colleges of optometry in United States and Canada. The Commission on Ophthalmic Standards conducts a Seal of Certification and Acceptance program for ophthalmic related products. Manufacturers can voluntarily submit products for evaluation. Those products that meet recognized standards or specifications adopted by the Commission are awarded the AOA Seal of Certification or Acceptance for use in product labeling and advertising.

### Scope

A nonprofit corporation representing doctors of optometry and students of optometry. A federation of associations representing each of the 50 states, the District of Columbia, and doctors of optometry in the armed forces. Objectives are to improve the vision care and health of the public and to promote the art and science of the profession of optometry.

### Standardization Activities

The Commission on Ophthalmic Standards serves as the coordinating body for AOA's activities with private and governmental groups in the development of standards and policies related to the quality of ophthalmic materials, instrumentation and procedures.

The Council on Optometric Education is the accrediting body for schools and colleges of optometry, as recognized by the U. S. Department of Education and the Council on Postsecondary Accreditation.

### Formerly

American Association of Opticians (1919)

### Keywords

education; optometry; ophthalmic products; vision; public health;

AMERICAN PETROLEUM INSTITUTE

R. L. Jones, Vice President, Industry Operations

1220 L Street, NW.

Washington, DC 20005

(202) 682-8000

FAX: (202) 682-8029

WWW: <http://www.api.org>

Founded: 1919

Standards Staff: 30

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Standards developer since 1919.

500 active standards.

100 industry committees and 1500 people active in standards work.

45 percent of API standards processed through ANSI.

5 percent published jointly with ASTM.

23 percent are adopted or being processed by ISO.

Standards  
Designation

API standards are called standards, recommended practices, publications, bulletins, guidelines, and specifications.

Representation

Members serve on committees of other organizations including the American Society for Testing and Materials, Society of Automotive Engineers, the American Society of Mechanical Engineers, the Institute of Electrical and Electronics Engineers, Instrument Society of America, National Fire Protection Association, Scientific Apparatus Manufacturers Association, American National Standards Institute, American Gear Manufacturers Association, National Association of Corrosion Engineers, Society for Non-Destructive Testing, American Welding Society, Association of Drilling Constructors, American Gas Association, American Iron and Steel Institute, and the Association of Well-Head Equipment Manufacturers.

Government  
Adoption

Department of Transportation, Department of Defense, Occupational Safety and Health Administration, U.S. Customs Service, the Environmental Protection Agency, U.S. Geological Survey.

Certification

API issues a monogram to those field equipment manufacturers who produce equipment according to API standards. API also licenses companies to use API registered quality marks on their motor oils if they meet API specifications. API certifies inspectors of pressure vessels, above-ground storage tanks, and piping. API also administers a testing laboratory accreditation program.



**Secretariats** ISO/TC 67/SC 9, Wellhead Equipment and Pipeline Valves.  
API/ASTM, Joint Committee on Static Petroleum Measurement.

**Scope** A national association encompassing all branches of the petroleum industry and composed of over 300 companies.

**Standardization Activities** Activities directed toward fulfilling user-defined requirements of the industry and its customers. The Industry Operations group produces standards in the area of transportation, marketing, production, refining, measurement, safety and fire protection. Maintains liaison with other standardization bodies. Standards are primarily performance oriented, with some design and process specifications where appropriate. Standards used worldwide and offered for adoption to the International Organization of Legal Metrology and the International Organization for Standardization.

**Availability** Distributed directly and through IHS and Global.

**Keywords** petroleum; petroleum equipment; petroleum measurement; petroleum transportation; materials;

#### AMERICAN PHARMACEUTICAL ASSOCIATION

John A. Gans, Pharm. D., Executive Vice President

2215 Constitution Avenue, NW.  
Washington, DC 20037  
(202) 628-4410 FAX: (202) 638-3793

Founded: 1852 Standards Staff: 2

**Type of Organization** Professional Society  
Standards Developer

**Scope** A national professional society with 45 000 individual pharmacists and pharmaceutical scientists in the United States. Concerns itself with matters affecting the professional, technical, legal, and scientific aspects of the practice of pharmacy.

**Standardization Activities** Primary standardization programs pertain to standards of practice for the profession of pharmacy. Responsible for the pharmacy profession's code of ethics. Through its Board of Pharmaceutical Specialties, establishes criteria for specialization and certification of specialists within pharmacy. Participates jointly with other organizations in sponsoring and conducting a program known as the United States Adopted Names Council (USAN), for the establishment of standardized nonproprietary nomenclature for drugs. Through USAN, APhA is involved with the World Health Organization in developing international nomenclature for the naming of drugs. Also participates in programs of the Pan-American Health Organization and the Federation International Pharmaceutique. Maintains

contact with the Food and Drug Administration; the Treasury Department, Alcohol and Tobacco Division; the Social Security Administration, Medicare Division; and the Justice Department, Drug Enforcement Administration. Co-founder of the Pharmacy Technician Certification Board, developed to administer voluntary national certification of pharmacy technicians.

Availability Distributed directly.

Keywords pharmaceutical; drugs; drug purity; nomenclature; health care; pharmacist; pharmaco therapy; pharmacy ethics; practice standards; pharmacy technician;

#### AMERICAN PIPE FITTINGS ASSOCIATION

Clay D. Tyeryar, CAE, Executive Director

7297 Lee Highway

Suite N

Falls Church, Virginia 22042

(703) 533-1321

FAX: (703) 241-5603

Founded: 1938

Type of Trade Association  
Organization Works through other organizations to develop standards

Representation Represented on the standards committees of MSSVFI and ANSI B16.

Scope An association of American pipe fittings manufacturers and producers of pipe hangers and suppliers.

Standardization Although not a standards developing organization, encourages,  
Activities contributes to, and cooperates in the development of standards for products within the scope of the association which will benefit the industry, its customers and the public.

Formerly Pipe Fittings Manufacturers Association (1964)

Keywords pipe hangers; pipe supports; building; construction;

## AMERICAN PSYCHIATRIC ASSOCIATION

Melvin Sabshin, Medical Director

1400 K Street, NW.  
Washington, DC 20005  
(202) 682-6000

FAX: (202) 682-6114

Founded 1844

### Type of Organization

Professional Society  
Works through other standards developer

### Scope

A medical specialty organization which furthers the study of the nature, treatment, and prevention of mental disorders; contributes to the development of standards for psychiatric facilities; disseminates information and promotes psychiatric education.

### Standardization Activities

Actively participates in development of standard classification for mental illness and the Diagnostic and Statistical Manual for Mental Disorders. This is published by the APA and used throughout the world. Serves as consultant to the World Health Organization on the publication, International Classification of Diseases. Also, develops practice guidelines for treatments of psychiatric disorders.

Joins with the Accreditation Council for Graduate Medical Education and the Residency Review Committee for Psychiatry to establish standards for accreditation of residency training programs in psychiatry and serves as a member organization of the American Board of Psychiatry and Neurology, which administers an oral and written examination to certify physicians in psychiatry. Is represented on the Hospital Accreditation and Mental Health Professional and Technical Advisory Committees of the Joint Commission on Accreditation of Healthcare Organizations.

Activities are conducted through the APA Council on Medical Education and Career Development; the Council on Economic Affairs and its Committees on Standards and Survey Procedures; and the Council on Research and its Task Force on Diagnostic and Statistical Manual IV, and its Steering Committee on Practice Guidelines.

### Availability

Distributed directly.

### Formerly

Association of Medical Superintendents of American Institutions for the Insane (1892)  
American Medico-Psychological Association (1921)

### Keywords

psychiatry; health care; education;

## AMERICAN PSYCHOANALYTIC ASSOCIATION

Ellen B. Fertig, Administrative Director

309 East 49th Street  
New York, New York 10017  
(212) 752-0450  
e-mail: [ebfertig@apsa.org](mailto:ebfertig@apsa.org)  
WWW: <http://www.apsa.org>

FAX: (212) 593-0571

Founded: 1911

Standards Staff: 4

### Type of Organization

Professional Society  
Standards Developer

### Standards Development

Standards developer since 1911.  
150 members actively involved in standards activities.

### Certification

Certification in adult, child and adolescent psychoanalysis.  
Accreditation program for training institutions.

### Scope

A national membership organization of psychoanalysts. Studies and advances psychoanalysis; advocates and maintains standards for the training of psychoanalysts and for the practice of psychoanalysis; fosters the integration of psychoanalysis with other branches of medicine and encourages research in all fields having to do with the scientific knowledge and welfare of man.

### Standardization Activities

Maintains Board of Professional Standards with eight standards setting committees. Conducts site visits in conjunction with accreditation activities of new training facilities. Certifies graduates of accredited Institutes.

### Availability

Distributed directly.

### Keywords

psychoanalysis; psychology; psychiatry; education;

## AMERICAN PUBLIC HEALTH ASSOCIATION

Fernando M. Treviño, PhD., M.P.H., Executive Director

1015 15th Street NW.  
Washington, DC 20005  
(202) 789-5600

FAX: (202) 789-5681

Founded: 1872

Standards Staff: 2

### Type of Organization

Professional Society  
Standards Developer

Scope	Professional organization of public health officials and practitioners which seeks to protect and promote personal and environmental health. Promulgates standards, establishes uniform practices and procedures, and publishes peer reviewed public health research.
Standardization Activities	<p>Develops standards of procedures, personnel qualifications, and practice. Publishes and updates Standard Methods for the Examination of Dairy Products; Standard Methods for the Examination of Water and Wastewater; and Standards for Healthful Housing. Publishes other works where standards are included, for example, Suggested Ordinance and Recommendations Covering Public Swimming Pools. Also publishes standard methods for the Microbiological Examination of Ambient Air.</p> <p>Represented on various boards of the American National Standards Institute (ANSI) and cosponsors Sectional Committee A40 on Minimum Requirements for Plumbing. APHA is involved in standards of accreditation for schools of public health. APHA develops policies and publications on such subjects as TB control, radiological health and chronic disease which serve as guides for practitioners, scientists, technologists, administrators, and others concerned with public health problems.</p>
Availability	Distributed directly.
Keywords	public health; sanitation; education;

#### AMERICAN RAILWAY ENGINEERING ASSOCIATION

	David E. Staplin, Executive Director
	50 F Street, NW. Washington, DC 20001 (202) 639-2190
	FAX: (202) 639-2183
	Founded: 1899
	Standards Staff: 4
Type of Organization	Professional Society Standards Developer since 1905
Standards Development	400 recommended practices developed. None processed through ANSI. 23 Committees active in developing recommended practices.
Standards Designation	AREA prefix; some rail specifications carry only RE prefix.



Government Adoption	Recommended practices are used as specifications in government contracts.
Scope	An international (the United States, Canada, and Mexico) professional association whose purpose is the advancement of knowledge pertaining to the scientific and economic location, construction, operation, and maintenance of railways.
Standardization Activities	Directed toward the principles, specifications, plans, and economics pertaining to the fixed-plant engineering, design, and construction of railways (except signals and communications), and allied services and facilities. Recommended practices are published in the AREA Bulletin for comment. Once approved for publication by the Association's Board of Directors, they appear in the Manual for Railway Engineering. Works closely with the Department of Transportation's Federal Railroad administration and Transportation Systems Center.
Availability	Distributed directly and through IHS.
Formerly	American Railway Engineering and Maintenance of Way Association
Keywords	transportation; construction; railroads; track; railway; rails;

#### AMERICAN ROAD AND TRANSPORTATION BUILDERS ASSOCIATION

T. Peter Ruane, President and CEO

The ARTBA Building  
1010 Massachusetts Avenue, NW  
Washington, DC 20001  
(202) 289-4434

FAX: (202) 289-4435

Founded: 1902

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
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Scope	Fosters and encourages the full utilization of scientific and educational measures toward the accomplishment of an integrated national highway, airport, and urban public transportation system adequate to accommodate the growth and advancement of transportation necessary for the civil economy and the national defense.
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Membership includes federal, state, county and city highway engineers and administrators, as well as consulting engineers, highway contractors, producers of highway materials, manufacturers and distributors of highway machinery, and educators in civil engineering colleges and universities.

**Standardization  
Activities**

Committees study problems relating to highway legislation, finance, design, construction, maintenance, equipment, and operation. Efforts are directed toward development of improved standards to bring about utilization of new materials and eliminate waste and improper methods.

Cooperates with other associations in joint activities. Publishes bulletins dealing with practical application of technical and semitechnical developments.

**Availability**

Distributed directly.

**Formerly**

American Road Makers (1910)

**Keywords**

highways; road construction; construction; transportation;

**AMERICAN SOCIETY FOR ARTIFICIAL INTERNAL ORGANS**

Karen Burke, Executive Director

Headquarter Office

P.O. Box C

Boca Raton, Florida 33429

(407) 391-8589

FAX: (407) 368-9153

e-mail: 74761.404@compuserve.com

Founded: 1955

**Type of  
Organization**

Scientific Society

Works through other organizations to develop standards

**Representation**

The ASAIIO Renal Disease and Detoxification Committee works in collaboration with its counterpart in AAMI. The society is also represented on the Medical Devices Standards Board of ANSI. Members and policies are called upon to contribute to the FDA activities in medical device regulation, such as the Cardiovascular and Gastroenterology-Urology Medical Device Classification Panels. Internationally, members represent the United States on ISO/TC 150 SC 2: Surgical Implants and Artificial Organs (Cardiac Valves, Pacemakers, Vascular Prostheses, Blood Gas Exchangers and Hemodialysis). Additionally, members contribute to the development of IEC document TC 62D: Hemodialysis Equipment.

<b>Scope</b>	An organization which promotes the development and safe usage of artificial internal organs, with 1400 members from both medical and engineering specialties. At the present time approximately two-thirds of the activities are in the fields of artificial kidneys and artificial hearts/circulatory assist. The remainder are devoted to innovations in other areas, such as plasmapheresis tissue engineering, biohybrid organs and artificial organs for liver failure, diabetes mellitus, vascular disease and disorders of the genitourinary tract.
<b>Standardization Activities</b>	Members are active in the development of voluntary medical device standards and guidelines for the user through a variety of mechanisms, including consensus symposia, investigation into the risks and hazards of medical devices, and contributions to the efforts of standards making organizations. Standards committees of the Society are appointed by the President. The Renal Diseases and Detoxification Committee meets annually; members of this committee are also members of the AAMI Committee in this field. Resulting standards are subjected to the review of processes of AAMI and ANSI.
<b>Keywords</b>	artificial organs; health care; medical devices;

#### AMERICAN SOCIETY FOR CLINICAL LABORATORY SCIENCE

<b>Type of Organization</b>	Elissa Passiment, Executive Director  7910 Woodmont Avenue Suite 530 Bethesda, Maryland 20814 (301) 657-2768	FAX: (301) 657-2909  Founded: 1932	Standards Staff: 2
<b>Scope</b>	A national professional organization composed of 20 000 members committed to providing efficient health care, quality service and accurate information/test results cost effectively to the public. Also committed to providing proper educational training to future clinicians as well as continuing education to clinical laboratory professionals/educators.		

**Standardization  
Activities**

Standards for day-to-day practice are covered in ASCLS's competence assurance documents, which undergo regular review for continued relevancy; LS's position papers; and National Committee for Clinical Laboratory Standards (NCCLS) specifications for biology and chemistry reagents or reference materials, controls for equipment, etc.

Works with the Food and Drug Administration in conducting a pilot project for surveillance of products used in clinical laboratories.

A member of the Medical Device Technical Advisory Board of the American National Standards Institute.

Cooperates with NCCLS and the International Association of Medical Laboratory Technologists in the development of international standards.

**Availability**

Distributed directly.

**Formerly**

American Society of Medical Technologists (prior to 1972)  
American Society of Chemical Laboratory Technicians (1936)

**Keywords**

medical; medical technology; testing; laboratory equipment;

**AMERICAN SOCIETY FOR ENOLOGY AND VITICULTURE**

Dr. Steven Fike, Technical Projects Committee Director

P.O. Box 1855  
Davis, California 95617  
(916) 753-3142 FAX: (916) 753-3318  
e-mail: ASEVDavis@aol.com

Founded: 1950

**Type of  
Organization**

Professional Society  
Works through other organizations to develop standards

**Scope**

A nonprofit corporation comprised of enologists, viticulturists and suppliers to the wine and grape industry, exclusively for scientific and literary purposes in enology and viticulture. Publishes the American Journal of Enology and Viticulture which contains original research papers, short abstracts, and reviews. Sponsors scholarship awards and an annual meeting.

Standardization Activities	The Technical Projects Committee develops technical projects of interest to the Society's membership.
Formerly	American Society of Enologists (1984)
Keywords	enology; viticulture; wine; winemaking; beverages;

#### AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING

Robert T. Anderson, Technical Services Manager

1711 Arlingate Lane  
P O Box 28518  
Columbus, Ohio 43228-0518  
(614) 274-6003 FAX: (614) 274-6899  
e-mail: asnt@delphi.com

Founded: 1941 Standards Staff: 3

Type of Organization	Technical Society Standards Developer
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Certification	Level III nondestructive testing examinations are offered in acoustic emission, electromagnetic, leak, liquid penetrant, magnetic particle, neutron radiographic, radiographic, thermal-infrared, ultrasonic and visual testing. Successful examinees receive a serialized method endorsement on an ASNT NDT Level III Certificate in accordance with Recommended Practice No. ANT-TC-1A and ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (ANSI/ASNT CP-189-1991).
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Scope	<p>A nonprofit, professional, technical society:</p> <ul style="list-style-type: none"> <li>• providing a forum for the exchange of NDT technical information.</li> <li>• providing NDT educational materials and programs.</li> <li>• providing training, standards and services for the qualification and certification of NDT personnel.</li> <li>• promoting the discipline of NDT as a profession.</li> <li>• facilitating and promoting NDT research and the application of NDT technology.</li> <li>• composed of in excess of 10 000 corporate and individual members within the United States and abroad.</li> </ul>
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Standardization Activities	Recommended Practice No. SNT-TC-1A and ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (ANSI/ASNT CP-189-1991) are recognized documents for establishing NDT personnel qualification and certification. In accordance with these documents, ASNT provides an ASNT NDT Level III Certificate by Examination program. Through ASNT's volunteer members, liaison is maintained with governmental bodies and standards organizations including ANSI, ASM, ASTM, ISO and USNRC.
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<b>Availability</b>	Publications are sold directly and through ASNT's Publications Department.
<b>Formerly</b>	The American Industrial Radium and X-Ray Society (1941-1946) The Society for Nondestructive Testing (1946-1967)
<b>Keywords</b>	nondestructive testing; inspection; laboratory; testing; quality assurance; acoustic emission; electromagnetic; leak; liquid penetrant; magnetic particle; neutron radiographic; radiographic; thermal-infrared; ultrasonic; visual;

**AMERICAN SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING**

William D. French, CAE, Executive Director

5410 Grosvenor Lane  
Suite 210  
Bethesda, Maryland 20814-2160  
(310) 493-0290 FAX: (301) 493-0208  
e-mail: billf@asprs.org  
WWW: www.asprs.org/asprs

Founded: 1934 Standards Staff: 2

<b>Type of Organization</b>	Technical Society Standards Developer since 1939
<b>Standards Designation</b>	ASPRS prefix.
<b>Government Adoption</b>	Map accuracy standards adopted by the Office of Management and Budget for use by government agencies such as Geological Survey, National Ocean Survey, Defense Mapping Agency, Forest Service, Federal Highway Administration.
<b>Certification</b>	Active Voluntary program awarding qualified individuals title of "ertified Photogrammetrist."
<b>Scope</b>	Primarily concerned with the art, science, and technology of measuring and interpreting photographic and remote-sensor images. Scope of interest includes the fields of aerial photography, photogrammetric surveys, photographic interpretation, remote sensing, and Geographic Information Systems (GIS). Publishes a monthly journal devoted to new developments, equipment, techniques, and applications in these areas.
<b>Standardization Activities</b>	Developed nomenclature for photogrammetry and remote sensing standards. Developing standards for large scale photogrammetric mapping. Publishes manuals which are generally accepted as standards of reference including the Manual of Photogrammetry, the Manual of Photographic Interpretation, the Manual of Color Aerial

Photography, and the Manual of Remote Sensing. Maintains Committees on specifications and standards and also nomenclature. Contributes to programs aimed at the standardization of definitions and terminology. Actively participates in the work of the International Society for Photogrammetry and Remote Sensing.

**Availability** Sold directly.

**Formerly** American Society of Photogrammetry (1985)

**Keywords** photogrammetry; remote sensing; aerial photography; mapping; surveying; geographic information systems; land information systems;

#### AMERICAN SOCIETY FOR QUALITY CONTROL

Paul E. Borawski, Executive Director

611 E. Wisconsin Avenue  
Milwaukee, Wisconsin 53202

(414) 272-8575

FAX: (414) 272-1734

WWW: <http://www.asqc.org>

Founded: 1946

Standards Staff: 1

**Type of Organization** Technical Society/Professional Society  
Standards Developer

**Standards Development** Standards developer since 1947.  
7 existing projects.  
All processed through ANSI.  
Draft standards available for review.  
35 active standards.

**Standards Designation** ANSI/ASQC prefix.

**Secretariats** ANSI Z1 Committee on Quality Assurance U.S. TAG for ISO/TC 69 on Statistical Methods, TC 176 on Quality Management and Quality Assurance; Subcommittee 1 of ISO/TC 69 on Statistical Methods; IEC/TC 56 on Dependability; Sub TAGs to ISO/TC 207 SC 1 and SC 2.

<b>Scope</b>	Advances the theory and practice of quality. Creates, promotes, and stimulates interest in the advancement and diffusion of knowledge of the science of quality and of its application to manufacturing and service industries.
<b>Standardization Activities</b>	Maintains a Standards Council which directs and coordinates national and international standards activities.
<b>Availability</b>	Distributed directly and through IHS, Global, and ANSI.
<b>Keywords</b>	quality control; quality assurance; sampling; inspection; quality systems; quality management; quality auditing; environmental management;

#### AMERICAN SOCIETY FOR TESTING AND MATERIALS

James A. Thomas, President

100 Barr Harbor Drive  
West Conshohocken, Pennsylvania 19428-2959  
(610) 832-9500 FAX: (610) 832-9555  
WWW: <http://www.astm.org>

Founded: 1898 Standards Staff: 200

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	9900 active standards. Metric equivalency required. 32 000 members, including 4000 international. 132 Technical Committees. Any interested party may participate.
<b>Standards Designation</b>	ASTM.
<b>Government Adoption</b>	The Department of Defense has adopted 2000 ASTM standards. Local building codes reference 600. The following agencies also have adopted ASTM Standards: General Services Administration, Public Building Service, Veterans Administration, Environmental Protection Agency, Food and Drug Administration Occupational Safety and Health Administration, National Institute of Occupational Health and Safety, Department of Energy, Department of Housing and Urban Development, Department of Agriculture, and Department of Transportation.
<b>Certification</b>	No certification, qualification, or accreditation programs.

Scope	A nonprofit organization formed to develop standards on characteristics and performance of materials, products, systems, and services; and to promote related knowledge. Standards include classifications, guides, practices, specifications, terminology, and test methods.
Standardization Activities	<p>Standards cover iron and steel products; nonferrous metal product; metal test methods and analytical procedures; construction; petroleum products; lubricants and fossil fuels; paints; related coatings, and aromatics; textiles; plastics; rubber; electrical insulation and electronics; water and environmental technology; nuclear, solar, and geothermal energy; medical devices; general methods and instrumentation, general products, chemical specialties, environmental assessment and end use products.</p> <p>Standards developed by the Society's committees are published in the 70 volume Annual Book of ASTM Standards. Hundreds of technical papers and reports presented at ASTM symposia and meetings are published in Special Technical Publications, the Society's monthly magazine "Standardization News," and in quarterly publications. All are distributed worldwide.</p> <p>ASTM standards are developed by those having expertise in the specific areas who choose, voluntarily, to work with the ASTM system-producers, users, ultimate consumers, and representatives of government and academia. ASTM provides a forum in which these people can meet on a common ground to write standards that will best meet the needs of all the interested parties. The ASTM system adheres to the principles of due process, assuring equal access to and equal voice in the standards forum.</p> <p>Draft standards undergo a balloting process from the subcommittee, to main committee, and to the entire Society -- with careful attention paid to minority opinions at each balloting level -- before they are published as official ASTM standards.</p>
Availability	Distributed directly and through IHS, and Global.
Keywords	materials; products; systems; services; testing; concrete; building; textiles; machinery; office products; electrical equipment; safety; defense environment; public health; medical devices; laboratory equipment; consumer products; industrial equipment; general;

## AMERICAN SOCIETY OF AGRICULTURAL ENGINEERS

Russell H. Hahn, P.E. Director of Standards  
and Technical Services

2950 Niles Road  
St. Joseph, Michigan 49085  
(616) 429-0300 FAX: (616) 429-3852  
e-mail: hahn@asae.org  
WWW: <http://asae.org/>

Founded: 1907 Standards Staff: 3

### Type of Organization

Professional Society  
Standards Developing Organization

### Standards Development

Standards developer since 1909.  
145 technical committees and subcommittees active or potentially  
active in standards development.  
210 standards, engineering practices, and data, most with SI-  
metric units.  
Accredited by ANSI; 25 percent standards approved by ANSI.  
Drafts available for review.

### Standards Designation

S, Standard; EP, Engineering Practice; D, Data.  
Examples: S318.11 Mar 95; EP364.1 Aug 93; D309.1 Dec 92.

### Government Adoption

OSHA-4; EPA-1; USDA-5; other government agencies-1.

### Certification

No certification, qualification, or accreditation programs.

### Scope

Professional and technical organization of 8000 members worldwide  
who are interested in engineering knowledge and technology for  
agricultural, food, and biological systems. Develops engineering  
standards used in agriculture. Sponsors international technical  
meetings and continuing education programs. Publishes peer  
reviewed technical journals.

### Standardization Activities

Develops voluntary standards for agricultural equipment systems,  
facilities and processes. Standards cover technical areas within  
the six ASAE technical divisions/institutes: Emerging Technolo-  
gies, Information and Electrical Systems, Food and Process Engi-  
neering, Power and Machinery, Soil and Water, and Structures and  
Environment. Standards considered national in scope and used for  
numerous international standardization proposals. ASAE's Coopera-  
tive Standards Program encompasses the development, adoption,  
publication, distribution, and maintenance of needed voluntary  
standards for industry and the consumer in agriculture and in  
related industries such as turf and landscape.



Maintains liaison with other technical societies such as ASME, ASHRAE, ASTM, IEEE, SAE, and ANSI. ASAE participates in United States Technical Advisory Groups for ISO/TC 23, Agricultural Tractors and Machinery; ISO/TC 31 Tires, Rims, and Valves; and ISO/TC 131 Fluid Power Systems and Components.

**Availability** Hardcopy available directly. CD-ROM and microfiche through IHS. Index on Internet at <http://asae.org/>.

**Keywords** agriculture; irrigation; structures; drainage; livestock; grain; machinery; safety; food processing; electronic; environmental; electric; tractors; turf; and landscape; erosion;

#### AMERICAN SOCIETY OF ANESTHESIOLOGISTS

Glenn W. Johnson, Executive Director

520 N. Northwest Highway  
Park Ridge, Illinois 60068  
(708) 825-5586 FAX: (708) 825-1692

Founded: 1905

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Representation** Individual members participate in standardization activities of ANSI, ASTM, ISO, and NFPA.

**Scope** A national medical society composed of over 26 000 members, most of whom are physicians specializing in the practice of the medical specialty of anesthesiology. Among its purposes is to "raise the standards of the specialty by fostering and encouraging education, research and scientific progress in anesthesiology" and to disseminate information concerning the specialty.

**Standardization Activities** The society works within the voluntary standards system to prevent the views of anesthesiologists on matters relating to the agents, devices, and facilities they use in their practices. Its Committee on Equipment and Standards deals with mechanical, electrical, and structural matters as they relate to anesthesiology. This committee is charged with the duties of representing the society in activities related to standards development and supervising and coordinating liaison activities to organizations such as ANSI, ASTM, ISO, NFPA, and other professional and technical bodies in the medical field.

The committee on Equipment and Standards maintains liaison with the standardization work of other professional and technical bodies in the medical field. While previously active in ANSI Committee Z79, Standards for Anesthesia and Respiratory Equipment, ASA currently participates in ASTM F29.

**Formerly**

Long Island Society of Anesthetists (1911)  
New York Society of Anesthetists (1936)  
American Society of Anesthetists (1945)

**Keywords**

anesthesia; respiratory equipment; medical; medical devices;

**AMERICAN SOCIETY OF BAKERY ENGINEERS**

Thomas L. Kuk, President

2 North Riverside Plaza  
Suite 1733  
Chicago, Illinois 60606  
(312) 332-2264

FAX: (312) 332-6560

Founded: 1924

Standard Staff: 1

**Type of  
Organization**

Professional Society  
Standards Developer

**Scope**

Association of baking industry production professionals, equipment manufacturers, ingredient suppliers and related baking services organizations. The ASBE mission is to promote the advancement of baking science technology.

**Standards**

Develop standards for bakery equipment particularly safety requirements.

**Development**

**Standards  
Designation**

Standards are developed in accordance with ANSI procedures in conjunction with the American Bakers Association, The Bakery Equipment Manufacturers Association, The Biscuit and Cracker Manufacturers Association, and the Retail Bakers of America.

**Availability**

Distributed through ANSI.

**Keywords**

bakery equipment; equipment safety;

## AMERICAN SOCIETY OF BREWING CHEMISTS

Steven C. Nelson, Executive Officer

3340 Pilot Knob Road  
St. Paul, Minnesota 55121  
(612) 454-7250

FAX: (612) 454-0766

Founded: 1934

Standards Staff: 3

### Type of Organization

Professional Society  
Standards Developer

### Standards Development

200 standard methods of analysis.

### Standards Designation

ASBC Method.

### Certification

Check Sample services provide the opportunity for subscribing laboratories to check their analytical accuracy on a periodic basis. For each service, a statistical summary of the analytical data is provided for use as an internal check. Check Sample services include Malt Analysis, Cereal Adjunct, Beer Analysis, and Hop Analysis. Another available service is Malt for standardizing mills. Standard malt is used to insure reliable milling and grinding samples for industry-wide analysis. The Soluble Starch service provides a special starch product available only to ASBC members, and is lot-checked by ASBC.

### Scope

750 members worldwide engaged in all aspects of brewing. Maintains high professional standards; conducts, promotes, and encourages scientific research in brewing and related industries; studies, develops, and adopts uniform methods for the analysis of raw materials, supplies, and products; holds meetings and disseminates technical knowledge.

### Standardization Activities

Publishes ASBC Methods of Analysis which contain 200 official ASBC methods relating to brewing chemistry. Also has available Tables for Extract in Malt and Cereals, and Tables related to Wort, Beer, Brewing Sugars and Syrups.

### Availability

Sold directly.

### Keywords

beer; beverages; testing;

## AMERICAN SOCIETY OF CIVIL ENGINEERS

James Rossberg, Manager, Building Standards

1015 15th Street, NW  
Suite 600  
Washington, D.C, 20005  
(202) 789-2200

FAX: (202) 289-6797

Founded: 1852

Standards Staff: 2

### Type of Organization

Technical Society  
Standards Developer

### Standards Development

Standards developer from 1875-1895 and 1974-present.  
2000 members and nonmembers participating in standards activities. ASCE is an ANSI accredited standards developing organization.

### Standards Designation

ASCE prefix.

### Scope

A 120 000 member organization for civil engineers in the United States dedicated to the civil engineering profession, offering opportunities for individual professional development and providing a forum for communication between individuals and groups involved in the practice of civil engineering.

### Standardization Activities

Maintains activities in these and related areas:  
Composite Deck Slab, Steel Deck, Pile Foundation, Drilled Shafts, Temporary Excavations, Nuclear Safety Related Earth Structures, Seismic Analysis, Steel Cables for Buildings, Minimum Design Loads for Buildings and Other Structures, Masonry Structures (joint with American Concrete Institute), Air Supported Structures, Engineered Wood Construction, Tensioned Fabric Structures, Wind Tunnel Testing, Steel Transmission Towers and Poles, Water Regulatory Standards; Rehabilitation of Buildings, Structural Composites and Plastics, Testing of Seismic Isolation Systems, and Fiberglass Reinforced Stacks. Technical and task committees seek to advance knowledge in specific engineering areas, focusing on relevant problems and concerns, by publishing standards, manuals, guides, reports, proceedings, and by conducting conferences and workshops.

### Availability

Available directly.

### Keywords

civil engineering; decks; slabs; structures; environment; foundations; nuclear safety; building; construction; loads; masonry; wood; seismic;

## AMERICAN SOCIETY OF ELECTROPLATED PLASTICS

David W. Barrack, Executive Director

1767 Business Center Drive  
Suite 302  
Reston, VA 22090  
(703) 438-8292

FAX: (703) 438-3113

Founded: 1966

Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards Developer since 1967.  
ASTM approved.

### Standards Designation

ASEP prefix.

### Scope

A nonprofit organization devoted to improving the efficiency of its industry and to promoting the use of printing on plastics, with a domestic and foreign membership of 45 companies.

### Standardization Activities

Cooperates with ASTM in developing specifications which include parts design; mold design; substrate fabrication requirements; plastic product qualification; test procedures and standards (including standard test panel, adhesion, corrosion, thermal cycling, and appearance); performance capabilities (including substrate, plate construction, and proven applications); handling of molded parts for plating; and industry terms. Publishes Standards and Guidelines which include these standards.

### Availability

Distributed directly.

### Keywords

plastics; electroplated plastics; manufacturing; materials; EMI/RFI Shielding;

## AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS

Jim L. Heldenbrand, Manager of Standards

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Atlanta, Georgia 30329  
(404) 636-8400  
e-mail: [jheldenb@ashrae.org](mailto:jheldenb@ashrae.org)  
WWW: <http://www.ashrae.org>

FAX: (404) 321-5478

Founded: 1894

Standards Staff: 8



Type of Organization	Technical Society Standards Developer
Standards Development	Standards developer since 1959. Over 400 members and nonmembers participating in standards activities. Most standard processed through ANSI. Draft standards available for review. 69 active standards.
Standards Designation	ASHRAE prefix.
Government Adoption	ASHRAE/IESNA Standard 90.1, Energy Efficient Design of New Buildings Except Low-Rise Residential Buildings is referenced in the Energy Policy Act and it, or earlier editions, serves as the basis for building code provisions in all 50 states. ASHRAE Standard 15, Safety Code for Mechanical Refrigeration and ASHRAE Standard 62, Ventilation for Acceptable Indoor Air Quality are used in whole or in part by the three model code organizations.
Certification	No certification, qualification, or accreditation programs.
Secretariats	U.S. Technical Advisory Group for ISO/TC 86, Refrigeration. ISO/TC 86, Subcommittees 1, Safety; 6, Factory Assembled Units; and 8, Refrigerants and Lubricants. ISO/TC 117, Subcommittee 2, Industrial Fans. ISO/TC 144, Subcommittee 1, Air Distribution and Diffusion.
Scope	An international membership organization operated for the exclusive purpose of advancing the arts and sciences of heating, refrigeration, air conditioning and ventilation, the allied arts and sciences, and related human factors for the benefit of the public.
Standardization Activities	Assists industry and the public by offering a uniform method of testing for rating purposes, and by suggesting safe practices in designating and installing equipment, by providing proper definitions of this equipment and by providing other information which may serve to guide the industry. Creation of standards is determined by need, and conformance to them is completely voluntary.  Maintains approximately 80 active Standards committees, supported by a staff organization administered by the Manager of Standards. Continuously promulgates new standards and reviews current standards to reflect technical advances in the field.

A series of standards relates to energy conservation in new and existing building. Other standards specify methods of testing for rating equipment, ventilation levels for indoor air quality, conditions for indoor comfort, mechanical refrigeration safety, and guidelines for reducing CFC emissions and commissioning buildings.

<b>Availability</b>	Sold directly and through ANSI, IHS, and Global.
<b>Formerly</b>	Merger of American Society of Heating and Air-Conditioning Engineers and the American Society of Refrigerating Engineers (1959)
<b>Keywords</b>	heating; refrigeration; air conditioning; ventilation; energy conservation; environmental quality; construction; building; commissioning;

#### AMERICAN SOCIETY OF MECHANICAL ENGINEERS

June Ling, Associate Executive Director,  
Codes and Standards

345 East 47th Street  
New York, New York 10017  
(212) 705-8570 FAX: (212) 705-8599  
e-mail: Compuserve: 75201-1644  
WWW: <http://www.asme.org>

Founded: 1880 Standards Staff: 95

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Standards Development</b>	600 active standards. Nearly all processed through ANSI. More than 120 standards committees and 4000 individuals develop and maintain these standards.
<b>Government Adoption</b>	120 standards have been adopted by the Department of Defense. Many others have been adopted by the Coast Guard and the Nuclear Regulatory Commission. The Boiler and Pressure Vessel Code has been widely adopted by responsible state and provincial agencies in the United States and Canada.
<b>Certification</b>	ASME operates accreditation programs in connection with its activity for boilers and pressure vessels, for nuclear plant components, and safety and pollution prevention equipment used in offshore oil and gas operations. The society authorizes manufacturers to apply ASME Code Symbol Stamps to their product, indicating compliance with the respective code or standard. The society

also administers Certification Programs relating to Elevator Inspections and Resource Recovery Facility Operators, Medical and Industrial Waste Facilities.

#### Scope

An educational and scientific society organized to promote the art and science of mechanical engineering and the allied arts and sciences; encourage original research; foster engineering; promote the exchange of information of engineers among themselves and with allied technologists; broaden the usefulness of the engineering profession in cooperation with other engineering and technical societies; and promote a high level of ethical practice.

#### Standardization Activities

Standards development is an important part of the society's activity to promote the art and science of mechanical engineering. The ASME Council on Codes and Standards supervises the standardization activities of the society under the authority delegated to it by the ASME Board of Governors. Standards are developed under ANSI Accredited Organization Procedures. Documents presented to the Society under the ANSI Canvass Method, where ASME has a Standards Committee whose scope covers that of the proposed standard, are reviewed by the appropriate committee.

Participates actively in international standardization through its sponsorship of ASME Committees which serve as the USA Technical Advisory Groups for the International Organization for Standardization (ISO) and International Electrotechnical Committee (IEC).

The Boiler and Pressure Vessel Code is ASME's most widely recognized standards publication. It is a definitive compilation of safety and performance requirements for power and heating boilers, nuclear reactors and power plants, as well as pressure vessels. The Performance Test Codes define accepted methods of determining performance and efficiency for a wide range of equipment and systems, from safety valves and gas turbines to fuels, incinerators, and centrifugal pumps. Many other fields have benefitted from ASME standards and codes. These include drafting practices and symbols, screw threads, bolts, nuts, rivets, and other fasteners in conventional and metric measure; machine tools, cutters and accessories; valves, pipe fittings, and plumbing fixtures; cranes, conveyors, and related equipment; and safety codes for elevators and escalators.

Availability	Distributed directly and through ANSI, IHS, Global, and other book sellers.
Keywords	abbreviations; accreditation; boiler code; cranes; drafting practices; elevators; fasteners; freight containers; hand tools; industrial trucks; machine tools; machinery; nuclear; mechanical; plumbing; pollution prevention; pressure piping; pressure vessels; qualification; quality assurance; safety; solar energy; industrial equipment; valves;

#### AMERICAN SOCIETY OF PLUMBING ENGINEERS

	<p>Kenneth G. Wentink, PE, CIPE, President</p> <p>3617 Thousand Oaks Boulevard #210 Westlake, California 91362 (805) 495-7120                      FAX: (805) 495-4861</p> <p>Founded: 1964</p>
Type of Organization	<p>Technical Society</p> <p>Works through other organizations to develop standards</p>
Representation	<p>National Standards Plumbing Code Committee of the National Association of Plumbing-Heating-Cooling Contractors, the American National Standards Institute (ANSI), the American National Standards Committee A40, International Association of Plumbing and Mechanical Officials (IAPMO), Southern Building Code Congress, International (SBCCI), and the American Society of Sanitary Engineers (ASSE), and on local code and administrative authorities.</p>
Scope	<p>A nonprofit professional technical society organized to elevate the field of plumbing to professional status. The only international organization devoted exclusively to the interests and concerns of plumbing engineering.</p>
Standardization Activities	<p>Although ASPE does not publish standards, it is engaged in the important work of advising builders, architects, and property owners in the value, to them and to their projects, of well conceived, carefully prepared plumbing drawings and clear, concise specifications.</p> <p>ASPE's code committee examines all regulatory codes pertaining to the plumbing industry; submits proposed revisions or clarifications of codes to code-writing authorities in an effort to simplify, standardize, and modernize all codes; and offers advisory services to other organizations or to governmental agencies involved in writing or enacting codes.</p>

**Keywords** plumbing; codes; sanitation; building;

**AMERICAN SOCIETY OF SAFETY ENGINEERS**

Thomas F. Bresnahan, Director, Technical Services

1800 East Oakton Street  
Des Plaines, Illinois 60018-2187

(708) 629-4121 x224 FAX: (708) 296-9221

Founded: 1911

**Type of Organization** Professional Society  
Standards Developer and works through other organizations to develop standards

**Secretariats** ANSI Z87, Eye Protection.  
Z117, Confined Spaces.  
Z359, Fall Protection Equipment.  
A1264, Workplace, Floor and Wall Openings, Railings and Stairways.  
Z390 Hydrogen Sulfide Safety Training.

**Scope** Composed of 32 000 career safety specialists organized to enhance the status and promote the advancement of all safety disciplines; foster the technical, scientific and managerial knowledge and skills of all safety and health professionals; and support the technical, social, and economic well-being of all safety practitioners.

**Standardization Activities** The ASSE currently serves as secretariat to five ASSE accredited national standards committees for ANSI Z87, Eye Protection; Z117, Confined Spaces; Z259, Fall Protection Equipment; A1264, Workplace, Floor and Wall Openings, Railings and Stairways; Z390, Hydrogen Sulfide Safety Training. In addition, the Society appoints its safety professionals to various ANSI, NFPA, and other national standards writing organizations. It also participates on other standards making committees of other organizations where representation of the profession is appropriate. Recommendations of Society members are offered to various governmental agencies when establishing advisory standards committees.



Formerly Absorbed the United Association of Casualty Inspectors (1914)

Keywords safety; safety engineering;

#### AMERICAN SOCIETY OF SANITARY ENGINEERING

Gael H. Dunn, Executive Secretary

P.O. Box 40362  
Bay Village, Ohio 44140  
(216) 835-3040 FAX: (216) 835-3488  
Founded: 1906 Standards Staff: 2

Type of Organization Technical Society  
Standards Developer

Standards Development 34 active standards.  
Standards submitted for ANSI approval.

Standards Designation ASSE prefix.

Government Adoption Standards are referenced by a large number of government agencies.

Certification ASSE Seal Program

Scope Plumbers, contractors, apprentices, journeymen, inspectors, engineers, health officials, and manufacturers interested in promoting public health and sanitation. Conducts research on plumbing and sanitation.

Standardization Activities Develops performance standards for plumbing system components. Standards provide a tool for measuring quality and effectiveness of a product. Products meeting these standards are identified by the ASSE Seal. Components of plumbing systems include backflow prevention devices, pressure regulators, water hammer arresters, water mixing and shower control valves, anti-siphon hydrants, and other devices which directly affect public health and safety.

Availability Distributed directly and through IHS.

Formerly American Society of Inspectors of Plumbing and Sanitary Engineering

Keywords plumbing; construction; sanitation; public health;

## AMERICAN SOYBEAN ASSOCIATION

Leonard Guarraia, Chief Executive Officer

540 Maryville Centre Drive  
St. Louis, Missouri 63141  
(314) 576-1770

FAX: (314) 576-2786

Founded: 1920

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Grain Standards Division, Foreign Agricultural Service, and Federal Grain Inspection Service of USDA

**Scope** A nonprofit, soybean producer-owned trade association organized to expand markets for soybeans and soybean products overseas.

**Standardization** Works with NOPA, AFMA, AAFCO, and AOCS in monitoring standards, specifications

**Activities** and trading rules for soybeans, soybean meal, and soybean oil, both for domestic sale and sale into the export markets.

**Keywords** soybean; agriculture;

## AMERICAN SPEECH-LANGUAGE AND HEARING ASSOCIATION

Sharon Goldsmith, Ph.D., Director Professional Affairs Department

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Rockville, Maryland 20852  
(301) 897-5700  
e-mail: sgoldsmith@asha.org

FAX: (301) 571-0457

Founded: 1925

Standards Staff: 22

**Type of Organization** Professional Society  
Standards Developer

**Certification** ASHA is the accrediting agency for college and university programs offering graduate degrees in speech-language pathology and audiology and for programs offering clinical services in speech-language pathology and audiology to the public. ASHA is the only national certifying agency for professionals who are speech language pathologists and audiologists.

**Scope** A national professional and scientific association representing over 81 000 speech-language pathologists and audiologists engaged in research, teaching, and clinical activities concerned with communication behavior and disorders. Maintains high standards of

clinical competence for professionals providing services to the public; certifies audiologists and speech language pathologists for entry level independent practice; encourages the development of comprehensive clinical service programs; promotes investigation of human communication and its disorders; and stimulates exchange of information about human communication.

**Standardization  
Activities**

Directed toward assuring quality of the speech-language pathology and audiology services provided to communicatively impaired persons. Develops standards for appropriate education and training of speech-language pathologists and audiologists. Accredits professional clinical service programs in speech-language pathology and audiology which meet criteria on organizational structure, quality service with functional, measurable outcomes, personnel, records, physical plant and equipment, community relations, and program evaluation. Incorporates ANSI standards on electroacoustic measurements of hearing aids; on permissible ambient noise during audiometric testing; and on calibration of audiometric equipment into Professional Services Board (PSB) clinical accreditation standards.

Maintains Council on Professional Standards which establishes and monitors all standards programs related to certification, continuing education, education and training, and professional services. Reviews and comments on standards proposed by ANSI that pertain to electro- and bioacoustic characteristics of audiometric equipment, hearing aids, and environments for hearing testing.

Standards are recognized by the Council of Postsecondary Accreditation, U.S. Department of Education, Joint Commission on Accreditation of Health Organizations, National Easter Seal Society, Council of State Administrators of Vocational Rehabilitation and Commission on Accreditation of Rehabilitation Facilities.

**Availability**

Distributed directly from the Association.

**Formerly**

American Speech & Hearing Association (1978)

**Keywords**

speech; language; audiology; hearing; acoustics; communication disorders; hearing aids; health; education; research;

## AMERICAN SPICE TRADE ASSOCIATION

A. Elizabeth Erman, Executive Director

560 Sylvan Avenue  
P.O. Box 1267  
Englewood Cliffs, New Jersey 07632  
(201) 568-2163 FAX: (201) 568-7318

Founded: 1907 Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Standards Designation

Official methods.

### Scope

Importers, grinders, and distributors of spices, oleo resins, and dehydrated vegetable seasonings.

### Standardization Activities

Maintains a Standards Committee whose function is to adopt standards of quality for whole spices, seeds, and herbs imported at American ports of entry. Also, through the ASTA's Research Committee, in cooperation with RESEARCH 900, developed the values of the base nutrient composition of spices including ash, fat, fiber, moisture, protein, calories, and vitamin content. Cooperated with the Wisconsin Alumni Research Foundation to develop the content of twenty-one mineral elements in spices.

Developed a publication, Official Analytical Methods, for Analyzing spices. Also developed a publication, Official Microbiological Methods, which aims to designate official methods for the detection and enumeration of microorganisms occurring on spices, seeds, and herbs and to provide helpful information and guidelines to those responsible for the assessment of microbiological quality of spices and seasonings.

### Keywords

spice; herb; food;

## AMERICAN SPORT FISHING ASSOCIATION

Michael Hayden, President

1033 North Fairfax Street  
Suite 200  
Alexandria, Virginia 22314  
(703) 519-9691 FAX: (703) 519-1872

Founded: 1933 Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1933. Draft standards available for review.
Scope	Manufacturers and importers of fishing tackle and allied products organized to educate, guide, and assist its members in matters of common interest so that they maintain a high standard of conduct, efficiency, and usefulness to industry, government, and the public.
Standardization Activities	Administers fly line standards which are universally accepted and were prepared in cooperation with the American Casting Association and the International Casting Federation. Supplies each manufacturer with these standards for packaging with their fly lines. Developed standards for rod seats and reel feet for the purpose of improving compatibility between rods and reels.
Availability	Distributed directly.
Keywords	fishing tackle; fly line; fishing reels; fishing rods; recreation;

#### AMERICAN STATISTICAL ASSOCIATION

Daniel G. Horvitz, Executive Director

1429 Duke Street  
Alexandria, Virginia 22314-3402  
(703) 684-1221 FAX: (703) 684-2037  
e-mail: asainfo@asa.mhs.compuserve.com

Founded: 1839

Type of Organization	Scientific Society Works through other organizations to develop standards
Standards Development	The American Statistical Association Committee on National and International Statistical Standards was formed in 1979. About 100 American Statistical Association members are actively involved in standards activities which focus primarily on the standards being developed within ISO.
Standards Designation	Examples of areas with committee involvement: ISO 3534-1, Statistics -- Vocabulary and Symbols; CD 11453 Statistical Interpretation of Data; ISO 8422 Sequential Sampling Plans for Inspection by Attributes; W13-42, Uncertainty of Measurements; ISO 9000 series, Quality Management; etc.



Certification	None
Scope	The American Statistical Association has well over 10 000 members. The Committee on National and International Statistical Standards provides liaison with national and international standards writing Committees engaged in the codification of statistical methods; and provides for competent timely review and informed participation in the development of standards through delegates to such Committees, who are empowered to vote as delegates of the American Statistical Association.
Standardization Activities	The codification of statistical methods including testing and measurement.
Keywords	statistics; design of experiments; sampling; accuracy; normality; uncertainty;

#### AMERICAN TEXTILE MACHINERY ASSOCIATION

Harry W. Buzzerd, Executive Vice President

111 Park Place  
 Falls Church, Virginia 22046  
 (703) 533-9251 FAX: (703) 241-5603

Founded: 1933 Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Scope	A nonprofit trade association devoted to the advancement of the United States based manufacturers of textile machinery, ancillary equipment and parts. Major activities include government affairs, market development, technical services, and educational programs.
Standardization Activities	Develops criteria to help overcome industry problems; issued criteria for dust and noise measurement. Provides guidelines for innovative machinery technology. Worked with ANSI to develop the Safety and Health Standards for the Textile Industry.
Availability	Distributed directly.
Keywords	textile machinery; safety;

**AMERICAN TEXTILE MANUFACTURERS INSTITUTE**

Kay M. Villa, Assistant Director - Product  
Services Division

1801 K Street, NW  
Suite 900  
Washington, DC 20006-1301  
(202) 862-0500  
e-mail: kvilla@atmi.org

FAX: (202) 862-0570

Founded: 1949

Standards Staff: 5

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

All participants in the voluntary standards development committees are volunteers and represent the breadth of industry sectors involved in the manufacturing and supply of textile/apparel commodities. These include textile manufacturers; notions suppliers; apparel manufacturers, retailers, academia; consultants; and consumers, numbering approximately forty. Only one standard has been published; however, other standards are being developed in the area of computer integrated manufacturing. ANSI approval is required for any standards developed under ATMI. Draft copies of standards are available for review from the organization.

ATMI and its members also work through other organizations including the American Association for Textile Chemists and Colorists, American Society for Testing and Materials, National Fire Protection Association, and the Joint Industry Fabrics Standards Committee to develop voluntary test methods and voluntary product standards.

**Standards  
Designation**

Fabric and Sundries Linkage Council (FASLINC).  
Manual - Industry specific electronic data interchange standard based on Version 3 Release 3 of ANSI ASC X-12.  
Future computer integrated manufacturing standards will have ANSI designation.

**Certification**

None.

**Secretariats**

Secretariat ISO TC 38/SC 19 Textile Flammability.  
U.S. TAG Administrator ISO TC 72.

**Scope**

ATMI is the national trade association of the textile manufacturing industry. Approximately 140 members operate in more than 30 states and account for 80 percent of all textile fibers consumed by mills in the United States.

<b>Standardization Activities</b>	Computer integrated manufacturing standards are used by all sectors of the industry to convey product information during manufacturing phases and consumer distribution.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Merger of American Cotton Manufacturers Association and the Cotton Textile Institute to form the American Cotton Manufacturers Institute in 1949. Absorbed the National Federation of Textiles in 1958. Current name adopted in 1962. Merged in 1964 with the Association of Textile Merchants of NY. Absorbed the National Association of Finishers of Textile Fabrics in 1965, the National Association of Wool Manufacturers in 1971, and the Thread Institute in 1989.
<b>Keywords</b>	computer integrated manufacturing; electronic data interchange; environmental management; fabrics; flammability, textiles; safety; health;

#### AMERICAN THORACIC SOCIETY

	Marilyn T. Hansen, Executive Director
	1740 Broadway, 16th Floor New York, New York 10019-4394 (212) 315-8778 FAX: (212) 315-6498
	Founded: 1905 Standards Staff: 2
<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Standards developed in areas of pulmonary medicine, environmental health, infectious disease control, respiratory therapy, and medical devices. Standards not processed through ANSI. Draft standards available for review to members.
<b>Government Adoption</b>	Standards related to the treatment and control of tuberculosis are developed jointly with the Centers for Disease Control of the U.S. Public Health Service.
<b>Certification</b>	No certification or accreditation programs.
<b>Scope</b>	A professional society dedicated to the prevention and control of lung disease, works to provide optimal health care services for individuals with lung disease. Emphasizes research and professional education. Serves as the medical section of the American Lung Association. Provides a forum for review of issues related to all aspects of lung health and the development of programs for the control of lung disease. Functions on a national level

through cooperation with federal agencies and national voluntary health organizations.

**Standardization  
Activities**

Develops standards and classifications for tuberculosis and other respiratory diseases. Provides standards for spirometers which are adhered to by all product manufacturers. Standards developed by the Society are incorporated into accreditation programs for health care institutions. Maintains close liaison with various government agencies primarily the Department of Health and Human Services. Acts as an advisor to federal agencies in their development of regulations and standards.

**Availability**

Distributed directly and through state and local affiliates of the American Lung Association.

**Formerly**

National Tuberculosis Association/American Trudeau Society (1960)

**Keywords**

pulmonary; tuberculosis; medical devices; spirometry; lung disease; public health; health care;

**AMERICAN VACUUM SOCIETY**

Yvonne Towse, Office Manager

120 Wall Street, 32nd Floor

New York, New York 10005

(212) 248-0200

FAX: (212) 983-6745

e-mail: [avsnycc@vacuum.org](mailto:avsnycc@vacuum.org)

WWW: <http://www.vacuum.org>

Founded: 1953

Standards Staff: 1

**Type of  
Organization**

Scientific Society  
Developer of Recommended Practices

**Standards  
Designation**

AVS prefix, 5-2.

**Scope**

Scientists, engineers, and others interested in vacuum technology. Promotes education and research.

**Standardization  
Activities**

Establishes recommended practice for nomenclature, measuring techniques and such items as flanges and fittings on vacuum equipment. Standards drafted and reviewed under the auspices of the AVS Committee.

**Availability**

Distributed directly.

**Keywords** vacuum technology; industrial equipment; flanges; leak detection;

**AMERICAN WALNUT MANUFACTURERS ASSOCIATION**

Larry R. Frye, Executive Director

260 South First Street  
Suite 2  
Zionsville, Indiana 46241  
(317) 873-8780 FAX: (873) 873-8788

Founded: 1912

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Standardization Activities** Cooperates in the development of grade rules for walnut lumber which are published by the National Hardwood Lumber Association. These grade rules are in general use both in the United States and foreign countries.

**Keywords** wood; hardwood; timber;

**AMERICAN WATCHMAKERS-CLOCKMAKERS INSTITUTE**

Michael P. Danner, Administrative Director

P.O. Box 11011  
Cincinnati, Ohio 45211  
(513) 661-3838 FAX: (513) 661-3131

Founded: 1960 Standards Staff: 1

**Type of Organization** Technical Society  
Standards Developer

**Certification** Program includes examinations for certified watchmakers and master certified watchmakers. Also participates in state licensing.

**Scope** A nonprofit corporation dedicated to the advancement of horology. Six thousand watchmakers and others who sell, service, or collect horological items. Activities include technical bulletins, a certification program, professional seminars, a monthly magazine, technical library, lending library and museum.



Standardization Activities	Involved in standards of craftsmanship through the dissemination of technical bulletins, and certification examinations. Aims to standardize the technical teaching techniques in the United States through its Education committee, which operates through the schools.
	Participated in the American National Standards Institute's program on the Standardization of Corundum Bearings in Horology, reviewed standards on chronometers for the U.S. Army, and reviewed railroad time standards for the National Institute of Standards and Technology. Worked with the British Horological Society to determine the proper placement of jewels in a 17-jewel watch.
Availability	Distributed directly.
Formerly	Merger of Horological Institute of America and the United Horological Association of America.
Keywords	horology; watchmaking; instruments;

#### AMERICAN WATER WORKS ASSOCIATION

Edward E. Baruth, Director, Standards and Materials Development

6666 West Quincy Avenue

Denver, Colorado 80235

(303) 794-7711

FAX: (303) 794-7310

WWW: <http://www.awwa.org>

Founded: 1881

Standards Staff: 14

#### Type of Organization

Scientific Society  
Standards Developer

#### Standards Development

Standards developer since 1890.  
130 active voluntary consensus standards.  
All processed through ANSI.  
50 standards under development.  
1300 members active in standards activities.

#### Standards Designation

AWWA or ANSI prefixes.

#### Government Adoption

The Department of Defense (DoD) has adopted numerous AWWA standards.

#### Secretariats

U.S. TAG for ISO/TC 5/SC 2, Cast Iron and Ductile Iron Pipe.

<b>Scope</b>	Represents its 55 000 members in all areas concerning water supply. 2000 volunteers participate in the development of technical documents. Holds three conferences, as well as other special conferences, each year. Publishes a monthly technical journal, news magazine, and publication for water system operating personnel; and an informational biweekly newsletter.
<b>Standardization Activities</b>	<p>Develops standards for a variety of pipe, fittings, valves, wells, pumps, water treatment chemicals, water storage tanks, water meters, and procedures for installation and use of these products. Solicits both membership and public approval in formulating standards. Use of standards is voluntary.</p> <p>Standard Methods for the Examination of Water and Wastewater, a compilation of 190 laboratory tests, is published jointly by AWWA, The American Public Health Association and the Water Pollution Control Federation.</p> <p>Participates in ISO/TC 5/SC 2, Castiron and Ductile Iron Pipe, and ISO/TC 30/SC 7, Water Meters.</p>
<b>Availability</b>	Distributed directly and through IHS, and Global.
<b>Keywords</b>	water; pipe; valves; fittings; wells; pumps; tanks; water treatment chemicals; sanitation; reservoirs; construction; public health; meters;

**AMERICAN WELDING SOCIETY**

<b>Type of Organization</b>	<p>Dr. H. Glenn Ziegenfuss, Technical Director</p> <p>550 N. W. LeJeune Road Miami, Florida 33126 (305) 443-9353 x 312      FAX: (305) 443-5951 WWW: <a href="http://www.amweld.org">http://www.amweld.org</a></p> <p>Founded: 1919      Standards Staff: 16</p>
<b>Standards Development</b>	<p>Developing welding standards since 1922.</p> <p>1300 members participating in standards activities, including representation on 37 standards committees of ANSI, NFPA, AWWA, API, ASME, ASTM, and others.</p> <p>130 active standards.</p>
<b>Standards Designation</b>	AWS, ANSI/AWS, AWS/SAE, AWS/AWWA, or AWS/AASHTO prefixes.

Government Adoption	The Department of Defense has adopted 24 AWS filler metal specifications and four other standards.
Secretariats	American Council of the International Institute of Welding (IIW). ANSI Z49, Safety in Welding and Cutting. US TAG for ISO/TC 44, Welding and Allied Processes and ISO TC/ SC 44 and SC 5. ISO TC/107 SC 5. ISO TC/146 SC 2. ISO/TC 44 Subcommittees.
Scope	Founded to advance the science, technology, and application of welding. Prepares standards such as codes, specifications, recommended practices, methods, classifications, guides and technical reports. Holds symposiums and technical meetings. Cooperates with other organizations in the preparation and review of welding standards. Active in the International Institute of Welding and the ISO Committee on Welding. Participates through ANSI in establishing the U.S. position on draft international standards.
Standardization Activities	AWS technical committees prepare standards covering four broad categories:  Welding fundamentals, including metric practice, symbols, testing, definitions, filler metals, safety and health, and computerization.  Welding processes, including resistance welding, thermal spraying, brazing, soldering, oxyfuel, ARC, friction, and high energy.  Inspection of welds, including methods, mechanical testing, and qualification of welders and procedures.  Industrial applications of welding, including structural, marine construction, water tanks, automotive, sheet metal, piping and tubing, iron castings, machinery and equipment, railroad, and robotics.
Availability	Sold directly and through ANSI, IHS, and Global domestically, and through several foreign agencies.
Keywords	brazing; soldering; filler metals; welder qualification; welding; thermal cutting; safety; manufacturing; structural welding; thermal spraying;

## AMERICAN WIRE PRODUCERS ASSOCIATION

Kimberly A. Korbel, Executive Director

515 King Street  
Alexandria, Virginia 22314-3103  
(703) 549-6003 FAX: (703) 684-6048

Founded: 1981 Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards developer since 1944

### Certification

No certification, qualification, or accreditation programs

### Scope

A nonprofit trade association of companies which manufacture from wire rod, all forms of carbon alloy and stainless wire and wire products.

### Standardization Activities

Maintains a Technical Committee which publishes Standards Manuals for round wire and flat and shaped wires. These contain recommended standards for wire and rod. Represents the wire and rod industries to ANSI and ASTM.

### Availability

Distributed directly.

### Formerly

Independent Wire Producers  
Specialty Wire Association

### Keywords

specialty wire; wire;

## AMERICAN WOOD-PRESERVERS ASSOCIATION

John F. Hall, Executive Vice President

P.O. Box 286  
Woodstock, Maryland 21163-0288  
(410) 465-3169 FAX: (410) 465-3195  
Founded: 1904 Standards Staff: 2

### Type of Organization

Technical Society  
Standards Developer

### Standards Development

Standards developer since 1930.  
250 members actively participating in standards development.  
1800 members given opportunity to vote on standards approval.  
Several standards developed in cooperation with ANSI.

Standards Designation	AWPA prefix.
Government Adoption	AWPA Standards are used in federal specifications. Federal Specification TT-W-571 on Wood Preservation parallels AWPA standards.
Scope	An international technical society devoted to research and development of wood preservation chemicals and treating practices for use in the United States and other countries.
Standardization Activities	Develops standards and specifications for wood preservatives and their introduction into the materials to be preserved. Standards cover preservatives, treatment of commodities, analysis methods, and conversion tables.
Availability	Distributed directly.
Keywords	wood; preservation; treated wood; construction; building;

#### AMERICAN WOOD PRESERVERS BUREAU

	Eric Yeadon, President
	#4 East Washington Street Newman, Georgia 30263 (404) 254-9877
	FAX: (404) 254-0084
Type of Organization	Founded: 1971 Trade Association Standards Developer
Standards Development	Standards Staff: 2 Standards developer since 1971. Developed 23 standards. None processed through ANSI.
Standards Designation	LP, General Purpose. MP, Marine Piling. CP, Construction Poles. MLP, Marine Structures.
Government Adoption	The AWPB Quality Mark is accepted by the Federal Housing Administration, Farmer's Home Administration, Veteran's Administration, Navy, and DoD. It is recognized by the building codes, ICBO, BOCA, and SBCC, as well as local and other organizations.



<b>Certification</b>	Certifies treated wood inspection agencies to license pressure treating plants to apply the AWPB Quality Mark to properly treated wood.
<b>Scope</b>	A not-for-profit volunteer quality control and certifying organization with 300 members. Provides a nationally known Quality Mark certifying a definite preservative treatment. Operates a wood preservative laboratory to standardize methods and assure quality control. A three-man Board of Review of retired scholars handles disputes.
<b>Standardization Activities</b>	All AWPB pressure treated lumber and plywood procedures are based on the American Wood-Preservers' Association standards.
<b>Availability</b>	Sold directly.
<b>Keywords</b>	wood; preservation; treated wood; marine; construction; building;

**AMT - The Association for Manufacturing Technology**

<b>Type of Organization</b>	<p>Anthony M. Bratkovich, Engineering Director</p> <p>7901 Westpark Drive McLean, Virginia 22102 (703) 893-2900</p> <p>Founded: 1902</p>	<p>FAX: (703) 893-1151</p> <p>Standards Staff: 3</p>
<b>Representation</b>	Working through member companies and staff representation on ASME, NFPA, IEEE, EIA, ASTM, AGMA, and others, most of which are ANSI accredited writing organizations.	
<b>Scope</b>	Comprised of companies producing over 80 percent of United States total machine tool output. Objectives are to be the industry spokesman before the public and the Government; to provide technical, economic, educational, and informational service to its members; and to promote higher technical and safety standards in industry.	
<b>Standardization Activities</b>	Promotes and supports industry representation in promulgating standards by sponsoring various machine tool oriented standard writing committees. Cooperates with standardization committees of other trade associations and supports industry representation on committees of the International Organization for Standardization and the International Electrotechnical Commission. Develops and maintains machine tool safety standards.	

Formerly National Machine Tool Builders' Association (1989)

Keywords machine tools; manufacturing technology; metal cutting; metal forming; machinery;

#### AOAC INTERNATIONAL

Ronald R. Christensen, Executive Director

481 N. Frederick Avenue  
Suite 500  
Gaithersburg, Maryland 20877-2504  
(301) 924-7077 FAX: (301) 924-7089  
e-mail: info@aoac.org

Founded: 1884 Standards Staff: 3

Type of Scientific Society  
Organization Standards Developer

Standards Development More than 2100 validated analytical methods for food, feed, fertilizer, pesticides, pharmaceuticals, residues, micro-biologicals, hazardous substances, water, and other commodities.

Government Adoption FDA, EPA, State Departments of Agriculture, Agriculture Department of Canada. Used in official regulatory laboratories in many countries.

Certification Certifies analytical test kits through subsidiary, the AOAC Research Institute

Secretariats Category "A" liaison to ISO/TC 34 Agricultural Food Products, ISO/TC 69 Applications of Statistical Methods, ISO/TC 93 Starch, ISO/TC 134 Fertilizer and Soil Conditions, and ISO/TC 190 Soil Quality. Secretariat to Inter-Agency Meeting (IAM), a subcommittee to the Codex Committee of Methods of Analysis and Sampling (CCMAS). Recognized international observer organization to Codex Alimentarius Commission.

Scope Coordinates the work of some 800 volunteer scientists in government and private laboratories worldwide to develop, test, validate, approve and publish official methods of analysis for food, agricultural commodities, chemicals, and pharmaceuticals. Publishes Official Methods of Analysis, Journal of the AOAC, and collaborative study data. Conducts an Annual Meeting and regional meetings, internationally.

<b>Standardization Activities</b>	Validates analytic methods used by industry and government laboratories in some 70 countries for determining compliance with government regulations, research, and quality control. Scientists participate in the AOAC methods validation process to validate and approve official methods.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Association of Official Agricultural Chemists (1965) Association of Official Analytical Chemists (1991)
<b>Keywords</b>	laboratory analysis; quality control; food; methods; agriculture; pesticides; fertilizer; feed; pharmaceuticals; analytical chemistry; government officials; microbiologicals; residues; water;

## ARCHITECTURAL WOODWORK INSTITUTE

Greg Heuer, Director, Members Service

13924 Braddock Road  
Suite 100  
Centerville, Virginia 22020  
(703) 222-1100 FAX: (703) 222-2399  
CompuServe: 76665,737  
e-mail: gheuer@capaccess.org

Founded: 1954 Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	More than 90 experts participate in consensus development of Architectural Woodwork Quality Standards. None are processed through ANSI.
<b>Government Adoption</b>	6th Edition Quality Standards adopted by American Institute of Architects (AIA); Construction Specifications Institute (CSI); Government Services Administration (GSA); Corps of Engineers (COE); Naval Facilities Engineering Command (NAVFEC); and numerous state and local facilities units.
<b>Certification</b>	The AWI National Quality Certification Program (QCP) licenses woodwork manufacturers to apply the QCP Label to items of woodwork which comply with the 6th Edition Quality Standards as specified by the design professional. In addition, program representatives assist woodwork manufacturers in meeting the 6th Edition Quality Standards, and inspect fabrication, finishing, and installation of architectural woodwork for compliance.

<b>Scope</b>	The authoritative source for the advancement of architectural woodwork through education, standards, certification and market- ing, while promoting integrity, quality and value among customers, design professionals, suppliers and all AWI members. Promotes the use of architectural woodwork by reaching and informing customers, design professionals and the woodworking community with programs of value. Establishes quality standards through research and testing and maintains a certification program as our commitment to quality.
<b>Standardization Activities</b>	Carries on a sustained program of standardization in the fields of cost accounting, estimating, detailing and billing, and the fabrication of architectural woodwork, sometimes known as special millwork, detail millwork, or contract millwork. This is done through publications such as the AWI Cost Accounting Manual, Quality Standards for Architectural Woodwork and Guide Specifica- tion for Architectural Woodwork.
<b>Availability</b>	Sold directly.
<b>Formerly</b>	Absorbed Millwork Cost Bureau and Southern Woodworkers Association at founding in 1954.
<b>Keywords</b>	wood products; millwork; lumber; building;

#### ART AND CREATIVE MATERIALS INSTITUTE

Deborah Fanning, Executive Vice President

100 Boylston Street, Suite 1050  
Boston, Massachusetts 02116  
(617) 426-6400

FAX: (617) 426-6639

Founded: 1936

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Standards Development</b>	5 active standards.
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<b>Standards Designation</b>	Z356.1 through .5.
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**Certifications**

ACMI sponsors a certification program to ensure that art and craft materials are evaluated by a qualified toxicologist and labeled, if necessary, for any acute or chronic potential health hazards. All ACMI-certified products conform to the chronic hazard labeling standard, ASTM D 4236. The Certified Products Bureau of the Institute, initiated in 1940, ensures the safety and quality of the products of subscribers to the bureau. Certified products are identified by a CP, AP, or HL Health Label Seal, all registered Trademarks. The CP Seal ensures both nontoxicity and specific quality requirements; the AP Seal ensures nontoxicity only; the HL Health Label ensures that the product is properly labeled. The products covered by the seals are crayons, chalk, finger paints, modeling clay, liquid and powdered tempera, semimoist water colors, block printing ink, school paste and related school art products, as well as ceramic products and numerous adult art materials.

**Scope**

An association of manufacturers of art, craft and other creative materials which conducts a wide range of activities.

**Standardization  
Activities**

Maintains a Certification Committee which is responsible for the standardization activities.

Works with the American National Standards Institute to develop and update quality standards for products within the scope of the institute. Current standards are Z356.1 for Crayons; Z356.2 for Chalk; Z356.3 for Adhesives; Z356.4 for Modeling Materials; and Z356.5 for Paints and Inks.

**Availability**

Distributed directly.

**Formerly**

Crayon, Water Color and Craft Institute (1983)  
Art & Craft Materials Institute (1994)

**Keywords**

crafts; art; safety; education; consumer products;

**ASBESTOS INFORMATION ASSOCIATION NORTH AMERICA**

B.J. Pigg, President

1745 Jefferson Davis Highway  
Crystal Square 4  
Suite 406  
Arlington, Virginia 22202  
(703) 412-1150

FAX: (703) 412-1152

Founded: 1970

Standards Staff: 1



Type of Organization	Trade Association Standards Developer
Standards Development	3 active standards.
Standards Designation	Recommended Work Practices.
Certification	No certification, qualification, or accreditation programs
Scope	Member companies are involved in the mining, milling, manufacturing, and marketing of asbestos and asbestos-containing products. Efforts are centered on health and safety aspects of asbestos and its use.
Standardization Activities	Standards developed by committees with participants drawn from member companies.
Availability	Sold directly.
Keywords	asbestos; safety; health; materials;

#### ASPHALT EMULSION MANUFACTURERS ASSOCIATION

Michael R. Krissoff, Executive Director

3 Church Circle.

Suite 250

Annapolis, Maryland 21401

(410) 267-0023

FAX: (410) 267-7546

CompuServe 74603,3345

Founded: 1973

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	Developed a series of Recommended Performance Guidelines for the manufacture and use of emulsified asphalt.
Standards Designation	Recommended Performance Guidelines.
Scope	An industry-wide trade association including over 120 corporate members in the United States, Canada, Mexico, and in many countries overseas. The technical work of the association is done in the committees and subcommittees of the association's international Technical Committee.

<b>Standardization Activities</b>	The International Technical Committee prepares guide specifications for the proper use of emulsions AEMA is involved with the American Society for Testing and Materials. Individual AEMA members hold committee chairmanships and subcommittee chairmanships within the ASTM structure, and particularly in ASTM Committee D-4. AEMA is also active in the American Association of State Highway Transportation Officials and is involved with the Materials and Services Division of the American Road Builders Association, where it reviews state and road building specifications and participates in the Stabilization Committee.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	materials; asphalt; asphalt emulsion; slurry seal; seal coat; construction;

#### **ASPHALT INSTITUTE**

Edward L. Miller, President

Asphalt Institute Building  
 Research Park Drive  
 P.O. Box 14052  
 Lexington, Kentucky 40512-4052  
 (606) 288-4960 FAX: (606) 288-4999  
 Founded: 1919 Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	25 active standards.
<b>Representation</b>	Works closely with other organizations in the development of standards including the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials. Staff members serve on technical committees of standards making organizations. Promulgates standards of other organizations.
<b>Certification</b>	Works with other organizations in providing training for asphalt technician/inspector certification programs.
<b>Scope</b>	An international business league (trade association) representing the manufacturers of asphalt or processors of asphalt materials and affiliated businesses. Publishes informational and technical literature. Maintains field offices in the continental United States. Conducts extensive programs of education, research, and engineering service related to asphalt products.

Standardization Activities	Works closely with its member companies, and serves upon appropriate standards making committees of the American Society for Testing and Materials, the American Association of State Highway and Transportation Officials, and others. Works in collaboration with kindred organizations such as the National Asphalt Pavement Association, the Asphalt Emulsion Manufacturers Association, the Asphalt Roofing Manufacturers Association, the Highway Users Federation, the Transportation Research Board, and others. Prepares Asphalt Institute Guidelines many of which are subsequently processed as ASTM and AASHTO standards.
Availability	Distributed directly and through Global and IHS.
Formerly	Asphalt Association (1929)
Keywords	asphalt; highways; pavements; construction; materials;

#### ASPHALT ROOFING MANUFACTURERS ASSOCIATION

Richard D. Snyder, Executive Vice President

6000 Executive Blvd.  
Suite 201  
Rockville, Maryland 20852  
(301) 231-9050  
Founded: 1919

FAX: (301)881-6572

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Technical Committees cooperate in the formulation and improvement of standards and specifications covering asphalt roofing products developed by the Federal Government, ASTM, Underwriters Labs, Factory Mutual, and others.
Scope	A national trade association representing North American companies that produce asphalt shingles, roll goods, built and modified bitumen roofing systems and allied roofing products. Provides basic membership services, including technical materials related to the performance of asphalt based roofing products and systems.

<b>Standardization Activities</b>	Works with standards producing organizations to coordinate industry standards activities and to provide expertise when requested. A Code Task Force works cooperatively with the association's Residential Roofing Committee and Modified Bitumen Roofing Built-Up Roofing Committee to assure recommended application practices adhere to building code requirements.
<b>Formerly</b>	Asphalt Roofing Industry Bureau (1970)
<b>Keywords</b>	roofing; asphalt shingles; fiberglass shingles; construction; building; built-up roofing; modified bitumen roofing;

#### ASSOCIATED AIR BALANCE COUNCIL

	Kenneth M. Sufka, Executive Director
	1518 K Street, NW Suite 503 Washington, DC 20005 (202) 737-0202
	FAX: (202) 638-4833
	Founded: 1965
	Standards Staff: 6
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards Developer since 1965. All members participate in standards activities.
<b>Standards Designation</b>	AABC National Standards.
<b>Government Adoption</b>	Army Corps of Engineers
<b>Certification</b>	Test and Balance Certification for membership
<b>Scope</b>	A nonprofit organization of qualified independent test and balance agencies. Promotes professional standards for the industry and a scientific approach to testing and balancing air handling systems. Represents its membership at national and international levels.
<b>Standardization Activities</b>	Activities directed toward fulfilling the minimum requirements for total system balance. AABC National Standards (a performance standard for the Total System Balancing industry), revises and replaces all National Standards previously published by the Council.

Availability Sold directly.

Keywords hydronic systems; construction; building; air handling;

#### ASSOCIATED GENERAL CONTRACTORS OF AMERICA

Hubert Beatty, Executive Vice President

1957 E Street, NW  
Washington, DC 20006  
(202) 393-2040 FAX: (202) 347-4004

Founded: 1918

Type of Trade Association  
Organization Works through other organizations to develop standards

Representation Represented on committees of National Institute of Building Sciences and ANSI

Scope A national trade association that represents general contractors and all related business interests engaged in commercial construction.

Standardization Engages in a wide variety of standards related activity  
Activities covering fields such as training and competency of onsite construction workers and supervisors, contract documents for use by contractors and owners for a wide range of contractual variations, safety and health procedures for construction sites, federal procurement regulations, and teaching construction skills at the secondary school and college levels. Cooperates with other groups, including ANSI, building trade unions, architects/engineers, and various federal agencies.

Keywords construction; building;

#### ASSOCIATED LOCKSMITHS OF AMERICA

Charles W. Gibson, Jr., Executive Director

3003 Live Oak Street  
Dallas, Texas 75204  
(214) 827-1701 FAX: (214) 827-1810

Founded: 1955 Standards Staff: 1

Type of Trade Association  
Organization Standards Developer



Standards Development	3 active standards.
Scope	Encourages and promotes the voluntary exchange among locksmiths of technical service data on security products; evaluates the position of the locksmith in the security industry; establishes a uniform code of ethics and conducts trade promotion activities.
Standardization Activities	Maintains a security Standards Committee which administers the standardization activity and is now working on standards for security devices in relation to locks. Works closely with the American Society for Testing and Materials' program for voluntary standards in locking devices, Committee T-12 on Security Systems and Equipment. Was successful in getting industry rapport to standardize and improve the quality of packaging for key blanks. Recommended a Standard City Ordinance on Building Security. Currently is working on a recommended standard for state licensing or registration of locksmiths. The Key Blank Boxes, Building Security, and Locksmith License are the three current standards of ALA, all considered national in scope.
Availability	Distributed directly.
Keywords	locksmithing; keys; locks; building; public safety;

#### ASSOCIATION FOR COMPUTING MACHINERY

	Joseph DiBlasi, CEO	
	1515 Broadway	
	New York, New York 10036	
	(212) 869-7440	FAX: (212) 869-1228
	Founded: 1947	Standards Staff: 2
Type of Organization	Scientific Society Standards Developer	
Standards Designation	ACM prefix.	
Scope	An international educational and scientific society of 65 000 computer professionals advances the science and art of information processing; promotes free interchange of information between computer scientists and the general public; develops and maintains the integrity and competence of individuals engaged in the information processing profession.	

Standardization Activities	The Association for Computing Machinery's (ACM) Technical Standards Committee promotes the dissemination and understanding of standards related information in the ACM and to coordinate ACM participation in standards related activities. Much of the committee's work is accomplished by e-mail. Represented on several technical committees of X3-Information Systems. Particularly active in the standardization of programming languages. Member of the ANSI Information Systems Standards Board. Developed SIGGRAPH CORE standard on 3-dimensional computer graphics. A program for processing standards through ANSI is under consideration.
Availability	Distributed through ACM Order Department, P.O. Box 64145, Baltimore, Maryland 21264.
Keywords	computers; programming languages; computer graphics; information;

#### ASSOCIATION FOR EDUCATION AND REHABILITATION OF THE BLIND AND VISUALLY IMPAIRED

Kathleen Megivern, Executive Director

206 N. Washington Street  
Alexandria, Virginia 22314  
(703) 836-6060  
e-mail: aernet@laser.net

FAX: (703) 683-2926

Founded: 1853

Standards Staff: 5

Type of Organization	Professional Society Standards Developer
Certification	Maintains a certification service for blindness professionals.
Scope	A professional organization of 5000 members which serves educators and rehabilitation specialists of the visually handicapped in the United States and Canada.
Standardization Activities	Participates in training institutes, the development of special standards. Cooperate with national and international agencies interested in the education and rehabilitation of visually handicapped children and youth.
Formerly	Merger of American Association of Workers for the Blind and Association for Education of the Visually Handicapped (1984)
Keywords	visually handicapped; blindness; education; rehabilitation;

**ASSOCIATION FOR INFORMATION AND IMAGE MANAGEMENT, INTERNATIONAL**

Marilyn Wright, Standards Manager, Standards and Technology

1100 Wayne Avenue, Suite 1100  
Silver Spring, Maryland 20910  
(301) 587-8202 FAX: (301) 587-2711  
e-mail: mwright@aiim.mo.md.us  
WWW: <http://www.aiim.org>

Founded: 1943 Standards Staff: 6

**Type of  
Organization**

Professional and Trade Association  
Standards Developer

**Standards  
Development**

Develops standards, recommended practices, and  
technical reports.  
200 individuals participating in standards activities.  
35 active standards and recommended practices.  
15 technical reports.  
13 technical tools.

**Standards  
Designation**

Published documents are designated ANSI/AIIM MS. Tech-  
nical Reports are designated as ANSI/AIIM TR. (Prior to July 1,  
1983, the Association was known as the National Micrographics  
Association and used the acronym NMA. Documents published and  
printed prior to then used the NMA acronym, whereas the AIIM  
acronym is now used.)

**Government  
Adoption**

Documents are submitted for adoption to the Department  
of Defense (DoD) or as part of the Federal Information Processing  
Standards Series (FIPS).

**Certification**

No certification, qualification, or accreditation programs

**Secretariats**

U.S. TAG to ISO/TC 171, Document Imaging Applications. Secretar-  
iat to SC 2, Applications, of ISO/TC 171

**Scope**

Serves its professional and trade members in promoting solution  
development, education, and information exchange in the document  
management industry.

**Standardization  
Activities**

ANSI/AIIM Standards committees and ad hoc groups  
collect data, evaluate proposed procedures, tests,  
drafts, and publish documents to meet the technical needs of the  
document and image management industry. These documents are  
published as standards, recommended practices, and technical  
reports. Areas covered include the recording, storage, re-  
trieval, and distribution of images, quality requirements;  
dimensions; product standardization; test methods; definitions for  
terms and phrases; and uniform product descriptions.

AIIM Task Forces also develop publicly available specifications to foster interoperability of document management management application. These task forces, such as the AIIM Document Management Alliance, also operate on a fully open and consensus driven basis, but do not develop formal (ANSI or ISO) standards.

**Availability** Distributed directly, thorough ANSI, and IHS.

**Formerly** National Microfilm Association (1943)  
National Micrographics Association (1975)

**Keywords** microfilm; micrographics; photography; information processing; scanning; image processing; image management; document management;

#### ASSOCIATION FOR SUPPLIERS OF PRINTING AND PUBLISHING TECHNOLOGIES

Mary M. Abbott, Director of Standards Programs

1899 Preston White Drive  
Reston, Virginia 22091-4367  
(703) 264-7200  
e-mail: 70732,2023

FAX: (703) 620-0994

Founded: 1933

Standards Staff: 5

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 17 American National Standards.  
1 Technical Report.  
8 Standards under development.  
All standards are processed through ANSI for designation as American National Standards.  
Draft standards available directly through NPES.

**Standards Designation** Published documents are designated as:  
B65 Safety Specifications for Printing Equipment.  
CGATS Graphic technology.  
IT8 Digital Data Exchange.

**Certification** No certification, qualification or accreditation programs.

<b>Secretariats</b>	CGATS - Committee for Graphic Arts Technologies Standards. B65 - Safety Standards for Printing Equipment. ISO/TC 130 WG 2 - Prepress Digital Data Exchange. ISO/TC 130 WG 5 - Safety and Ergonomics. U.S. TAG to ISO TC 130 - Graphic Technology.
<b>Scope</b>	NPES The Association for Suppliers of Printing and Publishing Technologies is a United States trade association serving over 300 members comprised of manufacturers of equipment, systems, software and supplies used in printing, publishing and graphic communications.
<b>Standardization Activities</b>	NPES administers 19 standards committees, including both ANSI and ISO committees, developing standards relating to printing and publishing. NPES publishes and sells the ANSI CGATS and ANSI B65 standards and technical reports, as well as ISO standards developed by ISO TC 130.
<b>Availability</b>	Standards are distributed directly through NPES and ANSI.
<b>Formerly</b>	National Printing Equipment and Supply Association (1991) National Printing Equipment Association (1978)
<b>Keywords</b>	DDAP; TIFF/IT; SWOP; densitometry; colorimetry; digital data exchange; color data definition; safety; symbology; digital ads; printing inks; graphic technology;

#### ASSOCIATION FOR THE ADVANCEMENT OF MEDICAL INSTRUMENTATION

Theresa C. Zuraski, Vice President, Standards

3330 Washington Boulevard  
Suite 400  
Arlington, Virginia 22201  
(703) 525-4890

FAX: (703) 276-0793

Founded: 1967

Standards Staff: 8

<b>Type of Organization</b>	Professional Association Standards Developer
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<b>Standards Development</b>	Standards Developer since 1967. 2000 members and nonmembers participating in standards activities. 55 American National Standards, 1 AAMI standard, 1 AAMI recommended practice, and 10 AAMI technical information reports, 3 AAMI monographs. Draft standards available for review.
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Standards Designation	American National Standards, AAMI Final Standards, AAMI Recommended Practices, AAMI Technical Information Reports, AAMI monographs.
Government Adoption	The Department of Defense has adopted 2 AAMI standards. The Food and Drug Administration utilizes AAMI standards for various regulatory purposes. HCFA has adopted one AAMI standard.
Certification	Certification program for experts in FDA Good Manufacturing Practices (GMPs) and related standards will be introduced in 1996.
Secretariats	<p>IEC/SC 62D, Electromedical Equipment.</p> <p>IEC/SC 62D/WG 6, Cardiac pacemakers.</p> <p>ISO/TC 84/WG 1, Reusable syringes and needles.</p> <p>ISO/TC 84/SC 1/WG 1, Sterile, single use, intravascular catheters.</p> <p>ISO/TC 150/SC 2, Cardiovascular Implants.</p> <p>ISO/TC 150/SC 2/WG 1, Cardiac Valves.</p> <p>ISO/TC 150/SC 2/WG 2, Cardiac pacemakers.</p> <p>ISO/TC 150/SC 2/WG 3, Vascular prostheses.</p> <p>ISO/TC 150/SC 2/WG 4, Blood/gas exchangers.</p> <p>ISO/TC 150/SC 2/WG 5, Renal replacement, detoxification and apheresis.</p> <p>ISO/TC 173/SC 3/WG 2, Aids for Ostomy and Incontinence/Urinary absorbing aids.</p> <p>ISO/TC 194/WG 1, Selection of tests.</p> <p>ISO/TC 194/WG 9, Interactions with blood.</p> <p>ISO/TC 194/WG 11, EO and other sterilization process residuals.</p> <p>ISO/TC 194/WG 12, Sample preparation and reference materials.</p> <p>ISO/TC 198, Sterilization of health care products.</p> <p>ISO/TC 198/WG 2, Radiation Sterilization.</p> <p>ISO/TC 198/WG 3, Moist Heat Sterilization.</p> <p>ISO/TC 198/WG 4, Biological Indicators</p> <p>ISO/TC 198/WG 8, Microbiological Methods</p> <p>ISO/TC 198/WG 9, Aseptic processing</p> <p>ISO/TC 210, Quality management and corresponding aspects for medical devices.</p> <p>ISO/TC 210/WG 1, Application of quality systems to medical devices.</p> <p>ISO/TC 210/WG 3, Symbols, definitions and nomenclature for medical devices.</p>
Scope	An international technical association whose members include over 5000 individual health care practitioners; nearly 200 hospitals, universities, government agencies, laboratories and medical societies; and nearly 180 medical device companies. Mission is to help developers and users with the development and utilization of medical technology. Accomplished through publications, standards, educational conferences, certification of health care professionals, and numerous technical communication programs.

**Standardization  
Activities**

Assists the manufacturers of medical devices and the users of medical technology by developing and approving device product standards and guidelines for the safe use and safe environment relative to medical technology. Participates with government, industry, consumers, and the professional community to develop standards. Accredited by the American National Standards Institute. Involved with international standards activities of IEC, ISO, and other international standards organizations.

Develops standards (national and international) in the areas of electromedical equipment, cardiovascular implants, and artificial organs, biocompatibility testing, hospital and industrial sterilization technology, quality management (of medical devices), medical devices for injection, aids for ostomy and incontinence, and devices for general hospital use.

**Availability**

Distributed directly and through ANSI.

**Keywords**

medical devices; medical instrumentation; sterilization; safety; health care; dialysis; biological evaluation; quality assurance;

**ASSOCIATION OF AMERICAN FEED CONTROL OFFICIALS**

Barbara J. Sims, Secretary

Texas Feed and Fertilizer Control Service

P.O. Box 3160

College Station, Texas 77841

(409) 845-1121

FAX: (409) 845-1389

Founded: 1909

Standards Staff: 4

**Type of  
Organization**

Professional Society  
Standards Developer

**Standards  
Development**

14 committees and 35 product investigators active in standard development.

None processed through ANSI.

Draft standards and revisions available for review for nonmembers.

**Scope**

A nonprofit association of feed control officials whose membership includes persons charged by law with execution of state, provincial, dominion, and federal laws in North America, Hawaii, and Puerto Rico regulating the production, labeling, distribution, and sale of animal feeds and livestock remedies.

**Standardization  
Activities**

Directed toward development of uniform feed laws and regulation for implementation by various agencies and development of definitions for feed terms and feed ingredients for use by control officials and the feed industry.

**Availability** Distributed through Charles P. Frank, Georgia Department of Agriculture, Plant Food, Feed & Grain Division, Capitol Square, Atlanta, Georgia 30334 (404) 656-3637.

**Keywords** animal feed; livestock remedies; agriculture; government officials;

#### ASSOCIATION OF AMERICAN PLANT FOOD CONTROL OFFICIALS

D. L. Terry, Secretary

c/o University of Kentucky  
Lexington, Kentucky 40546

(606) 257-2668

FAX: (606) 257-7351

e-mail: terrydav@uklans.uky.edu

Founded: 1946

**Type of Organization** Professional Society  
Standards Developer

**Standards Development** Active standards: 5; Standards developer since 1946, 100 volunteer members.  
Model legislation and standards available for review.  
None processed through ANSI.

**Government Adoption** Several states have adopted one or more of the standards and most states accept the principles of uniformity promoted by AAPFCO.

**Scope** Officials of agencies concerned with enforcement of laws relating to control of sale and distribution of mixed fertilizer and fertilizer materials. Members in the United States, Canada, and Puerto Rico.

**Standardization Activities** Develops model laws and standards for fertilizer labeling, terms and definitions, enforcement policies, and tonnage reporting. These are developed through various committees which solicit input from regulatory officials, professional agronomists, the fertilizer industry, and federal agencies. Model laws for fertilizer, liming, agricultural ammonia, chemigation, and soil amendments are the basis for legislation in a number of states.

Availability	Distributed directly.
Formerly	Association of American Fertilizer Control Officials
Keywords	fertilizers; limestone; agriculture; government officials;

#### ASSOCIATION OF AMERICAN PUBLISHERS

Nicholas A. Veliotes, President

71 Fifth Avenue

New York, New York 10003

(212) 255-0200

FAX: (212) 255-7007

Founded: 1970

Type of Organization	Trade Association Works through other organizations to develop standards
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Scope	Its members are producers of hardbound and softbound general, educational, trade, reference, religious, scientific, technical, and medical books; instructional materials; periodicals and tests; audio and video tapes, computer software, looseleaf services, electronic products and services including online databases, CD-ROM and CD-I.
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Standardization Activities	Works with the Book Manufacturers Institute (BMI) and the National Association of State Textbook Administrators (NASTA) to comprise a three-member Advisory Commission on Textbook Specifications (ACTS) which develops the Manufacturing Standards and Specifications for Textbooks (elementary and high school).
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Availability	Distributed through ACTS.
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Formerly	Merger of American Educational Publishers Institute and American Book Publishers Council
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Keywords	books; book publishing; publishing; communications;
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## ASSOCIATION OF AMERICAN RAILROADS

Edwin L. Harper, President

Information and Public Affairs  
50 F Street, NW  
Washington, DC 20001  
(202) 639-2100

FAX: (202) 639-2286

Founded: 1934

Standards Staff: 5

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

The Manual of Standards and Recommended Practices (19 volumes) contains nearly 1400 documents.

### Standards Designation

Specifications are designated with an "M" prefix, Standards with an "S" prefix, Recommended Practices with an "RP" prefix.

### Certification

The Research and Test Department is responsible for conducting certification testing of new designs of cars and components, quality control checks on components and materials, lubricant testing, and analysis of failed components.

### Scope

Membership consists of 108 railroads, including 9 Canadian, 4 Mexican, and 59 associate members. Association members haul approximately 90 percent of the nation's rail traffic and account for 82 percent of the rail mileage. The association serves its members in matters that require cooperative handling to better enable the railroads to operate as a national system and to contribute toward the purposes of the national transportation policy set forth by Congress. It is an umbrella organization consolidating a number of smaller, more specialized groups and is organized by departments which span the fields of law, operations and maintenance, research and testing, railway economics and statistics, finance and accounting, railway information and public affairs, legislation, and data systems.

### Standardization Activities

AAR specifications, standards and recommended practices are issued by the Mechanical Division on authority of the Division's General Committee. The Division and its standards deal with the design, construction, performance, maintenance, repair, and inspection of locomotives, freight cars, and other railroad mechanical equipment that is interchanged among railroads.

The Communications and Signal Division develops recommended practices for engineering, design, construction, operation, and maintenance of rail communication and signal systems. It maintains liaison with appropriate professional organizations such as the American National Standards Institute and the Institute of



Electrical and Electronics Engineers, and with government agencies. It is the national radio frequency coordinator to the Federal Communications Commission for assignment of radio frequencies for the railroads in the United States, and the United States/Canadian coordinator along the border.

The Data Systems Division, through RAILINC Corporation, a subsidiary of AAR, stimulates the development and application of data processing and information techniques and established procedures which promote their efficient and productive use and simplify the interchange of data. This division serves as the principal railroad representative to American National Standards Committee X3 and the Transportation Data Coordinating Committee. Its committees are examining the industry's coding and standards needs in the area of data elements, teleprocessing protocols, etc.

Other AAR activities involved in standardization include the Safety Division's Hazardous Material Systems Division, which tests and classifies, for transportation purposes, materials considered hazardous under government regulation and makes recommendations covering packaging, labeling, and handling en route. The Division maintains field inspector at key locations throughout the United States and Canada.

Standardization and simplification of railroad accounting and treasury practices and requirements is accomplished through the Economics and Finance Department. This department prepares various publications on rules, standard forms, procedures, and codes, as well as economic and statistical data covering railroad operations and their financing.

**Availability**

The Manual of Standards and Recommended Practices is sold directly.

**Keywords**

transportation; railroads; accounting; finance; explosives; safety; communications; data processing;

## ASSOCIATION OF ASBESTOS CEMENT PIPE PRODUCERS

B.J. Pigg, President

1745 Jefferson Davis Highway  
Suite 406  
Arlington, Virginia 22202  
(703) 412-1153

FAX: (703) 412-1152

Founded: 1972

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	2 member companies represented on standard committees of ASTM and AWWA. 16 member companies active in ISO/TC 77
Scope	An international association of producers of asbestos cement pipe. Promotes the use and sale of asbestos cement water and sewer pipe.
Standardization Activities	Standards activities are directed toward the development and maintenance of contemporary product, test, and performance standards for asbestos cement water and sewer pipe, including special applications.
Keywords	construction; asbestos cement; asbestos cement pipe; sewer pipe;

## ASSOCIATION OF BEDDING AND FURNITURE LAW OFFICIALS

A. Richard Geisler, Chief Bedding & Upholstery Division  
Product Safety Division

Department of Labor and Industry  
Room 1539, 7th and Forster Sts.  
Harrisburg, Pennsylvania 17120  
(717) 787-6848

FAX: (717) 787-8363

Standards Staff: 1

Type of Organization	Professional Society Standards Developer
Scope	Provides a national forum for the discussion of all questions relating to the administration of bedding and upholstered furniture laws as carried on by regulatory officials of the state, commonwealths, territories and possessions of the United States, their political subdivisions, the District of Columbia, and the Dominion of Canada.

<b>Standardization Activities</b>	Encourages and promotes the adoption of uniform bedding and upholstered furniture laws, rules, regulations, nomenclature, labeling requirements, and enforcement procedures. Develops tests and adopts standard methods of inspection and sampling of bedding and upholstered furniture and the analyses of filling materials. Develops standard methods of determining the efficiency of insecticides, fumigants, sterilizing and disinfecting processes and equipment as applied to bedding, upholstered furniture, and filling materials. Secures uniformity in the statement of analytical results; promotes, conducts, and encourages research in chemistry and allied fields as these relate to analyses of filling materials used in bedding and upholstered furniture.
<b>Availability</b>	Sold directly.
<b>Keywords</b>	bedding; upholstered furniture; insecticides; fumigants; sterilization; government officials; consumer products;

**ASSOCIATION OF EDISON ILLUMINATING COMPANIES**

	W.O. Whitt, Executive Director
	600 North 18th Street P.O. Box 2641 Birmingham, Alabama 35291-0992 (205) 250-2530 FAX: (205) 250-2540 Founded: 1885 Standards Staff: 1
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Designation</b>	AEIC CS prefix.
<b>Scope</b>	A trade association of investor-owned electric utilities in the United States engaged in the distribution of electric service for sale to the general public. Its objective is the advancement of electric service to the public for light, heat, and power.
<b>Standardization Activities</b>	Maintains representation on several ANSI Committees and on other similar technical organizations involved in standardization relating to the electric utility industry. Prepares and publishes specifications for high voltage underground cable design used in the industry.

Availability Sold directly.

Keywords energy; electric power; electrical equipment;

#### ASSOCIATION OF ENGINEERING GEOLOGISTS

Edwin A. Blackey, Jr., Executive Director

323 Boston Post Road  
Suite 3D  
Sudbury, Massachusetts 01776  
(508) 443-4639 FAX: (508) 443-2948

Founded: 1957 Standards Staff: 1

Type of Professional Society  
Organization Standards Developer

Scope Promotes high ethical and professional standards in the field of geology; members are graduate geologists and geological engineers.

Standardization Maintains two committees active in standards develop-  
Activities ment. The Building Codes Committee is active on a local level as advisors to county and municipal governments considering code revisions, including code provisions for development of flood plains and tidal marshland. The Committee on Engineering Geology Mapping Symbols develops standard map symbols for use by all states and counties.

Availability Distributed directly.

Keywords geology; mapping; construction;

#### ASSOCIATION OF HIGHER EDUCATION FACILITIES OFFICERS

Wayne E. Leroy, CAE, Executive Director

1446 Duke Street  
Alexandria, Virginia 22314-3492  
(703) 684-1446 FAX: (703) 684-2772

Founded: 1914 Standards Staff: 1

Type of Professional Society  
Organization Standards Developer

<b>Scope</b>	Develops professional standards in the administration, care, operation, planning, and development of college and university physical plants.
<b>Standardization Activities</b>	Participates with other organizations in the standards development and review process.
<b>Keywords</b>	physical plant; facilities management; construction; maintenance; education;

#### ASSOCIATION OF HOME APPLIANCE MANUFACTURERS

	Jack Weizeorick, Vice President of Engineering Services
	20 North Wacker Drive Chicago, Illinois 60606 (312) 984-5800 Founded: 1967
	FAX: (312) 984-5823 Standards Staff: 4
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1967 73 members participate in standards activities. 26 active standards include metric equivalents. 20 standards ANSI approved.
<b>Standards Designation</b>	ANSI/AHAM and AHAM prefixes.
<b>Government Adoption</b>	The General Services Administration has adopted several AHAM standards for procurement purposes.
<b>Certification</b>	Sponsors five certification programs for Room Air Conditioners, Refrigerator-Freezers, Humidifiers, Dehumidifiers, and Room Air Cleaners
<b>Secretariats</b>	IEC SC 59A, Electric Dishwashers IEC SC 59H, Microwave Appliances IEC SC 61B, Safety of Household Microwave Ovens
<b>Scope</b>	An international nonprofit association of companies manufacturing major and portable appliances. Functions in five major areas: product standards and certification, government relations, consumer affairs and communications, statistical reports, and international trade. Other functions included industrial relations and market research.



Standardization Activities	<p>Develops voluntary appliance performance standards and makes safety recommendations to Underwriters Laboratories and the American Gas Association. The Engineering Council determines policy and directs product engineering committees to determine contents of standards with special consideration on product safety. Develops international standards through representation on technical committees of the International Electrotechnical Commission.</p> <p>Maintains liaison with the Federal Government's National Institute of Standards and Technology, General Services Administration, Food and Drug Administration, Federal Trade Commission, Consumer Product Safety Commission, and Department of Energy.</p> <p>AHAM standards are national in scope. Their use is promoted through publications and press releases, through certification, and by the American National Standards Institute's recognition.</p>
Availability	Sold directly and through ANSI.
Formerly	American Home Laundry Manufacturer's Association (1916-1966)
Keywords	home appliances; safety; consumer products;

#### ASSOCIATION OF IRON AND STEEL ENGINEERS

	Lawrence G. Maloney, Managing Director
	<p>Three Gateway Center Suite 2350 Pittsburgh, Pennsylvania 15222 (412) 281-6323                      FAX: (412) 281-4657</p>
	<p>Founded: 1907                      Standards Staff: 1</p>
Type of Organization	Technical Society Standards Developer
Standards Development	11 standards and technical reports.
Scope	Fosters an exchange of ideas toward advancing the iron and steel producing industry in matters related to steel plant engineering, maintenance, and operations including electrical, mechanical, welding, combustion, lubrication, and rolling mills. Engages in standardization, engineering, and computer applications.

## Standardization Activities

Develops standards for the steel industry which include D-C Mill Motor Standards, Alloy Steel Chain and Alloy Steel Chain Slings for Overhead Lifting, Specification for Electric Overhead Traveling Cranes for Steel Mill Service, Specification for Design of Ladle Hooks, Insulated Conductors for Crane and Mill Auxiliary Motors, Specifications for Design of Hot Metal Ladles, Brake Standards for Mill Motors, Guide for Design and Construction of Mill buildings, New Steel Pressure-Containing Components for Blast Furnace Installations, Repair of Steel Pressure-Containing Components for Blast Furnace Installation.

Also sponsors engineering activities for the purpose of developing data for future standards and for the improvement of steel mill operating practice.

## Availability

Distributed directly.

Formerly

Association of Iron and Steel Electrical Engineers (1936)

## Keywords

electrical equipment; industrial equipment;

# ASSOCIATION OF OFFICIAL SEED ANALYSTS

Jim Lair, Secretary-Treasurer

University of Nebraska  
268 Plant Science  
Lincoln, Nebraska 68583-0911  
(402) 472-1444 FAX: (402) 472-7904

Founded: 1908 Standards Staff: 2

Type of  
Organization

Scientific Society  
Standards Developer

## Scope

Officials of federal, state and provincial seed testing and research laboratories. Develops uniform rules fore testing field, vegetable flower and tree seeds, encourages the use of high quality seed, promotes research, and fosters the training of seed analysts.

## Standardization Activities

Maintains committees in research, rules, referee, and public service areas to develop standardized methods of seed testing that will permit duplication of results when the same sample is tested by different stations. Quality factors for which tests are made include purity of sample, percentage germination, rate of occurrence of noxious weed seeds, varietal purity, and assaying for fungicidal seed treatment. The Research Committee makes technical information available to the Rules Committee which prepares a new draft revision of the rules every fifth year for approval. The Rules Committee also interprets questionable and

disputed points of the Rules for Testing Seeds. The Referee Committee circulates samples among the member stations to determine whether they are testing in accordance with the rules and to identify any weaknesses in the rules. The Public Service Committee encourages association member to publicize the benefits of the associations's work and stimulate interest in seed testing.

**Keywords** seed testing; government officials; agriculture;

#### ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

Vance H. Watson, Executive Vice President

Box 9812  
Mississippi, MS 39762  
(601) 325-4567 FAX: (601) 325-8118

Founded: 1919 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Certification** The adopted standards are used to establish seed certification regulations by the U.S. Department of Agriculture.

**Scope** Establishes and maintains minimum standards and procedures for certifying seed. Membership consists of a representative from each state certifying seed.

**Standardization Activities** The Association develops and maintains seed certification minimum standards for genetic purity and identity. These standards and procedures are used by individual state seed certifying agencies in supervising the production and marketing of certified seed and are reviewed annually. Individual state seed certifying agencies may not certify seed for interstate commerce unless the Association's (and USDA) minimum standards are used.

**Availability** The Association standards are printed in a certification book and may be purchased directly.

**Formerly** International Crop Improvement Association (until 1968)

**Keywords** seeds; genetics; agriculture;

**ASSOCIATION OF RECORDS MANAGERS AND ADMINISTRATORS**

James P. Souders, Executive Director

4200 Somerset Drive  
Suite 215  
Prairie Village, Kansas 66208  
(913) 341-3808  
(800) 422-2762                      FAX: (913) 341-3742  
e-mail: 76015.3151@compuserve.com

Founded: 1956                      Standards Staff: 3

Type of Organization	Professional Society Standards Developer
Standards Development	Guidelines and standards developer since 1981. More than. 500 members participate in standards activities. 12 guidelines and 1 standard published.
Standards Designation	ARMA prefix. ANSI/ARMA prefix.
Scope	An international organization of professionals involved in records and information management. Represents interests in the management of documentation, preservation, disposal, and the efficient handling of recorded information including records management systems, records retention, vital records, records centers, computerized information, micrographics technology, word processing, and others.
Standardization Activities	Directs activities toward fulfilling user-defined requirements of the profession. A seven-person Standards Committee represents government, manufacturers, and users, and is responsible for final approval of Guidelines and Standards developed by working committees. These committees cover the following areas: filing Equipment and Supplies, Filing Systems, Glossary-Records management Terms, Job Descriptions, Records Center Operations, Records Retention, Technology Applications and Vital Records.  ARMA Guidelines are published and made available to the membership and the general public.
Availability	Distributed directly.
Formerly	American Records Management Association
Keywords	records; files; information processing; office products; records management;

## ASSOCIATION OF THE NONWOVEN FABRICS INDUSTRY

John Mead, President

1001 Winstead Drive  
Cary, North Carolina 27513  
(919) 677-0060  
Founded: 1968

FAX: (919) 677-0211  
Standards Staff: 12

Type of  
Organization

Trade Association  
Standards Developer

Scope

Membership consists of manufacturers of nonwoven fabrics, raw material suppliers, and nonwoven fabric end users. INDA works on a national and international level to promote the nonwoven fabric industry. INDA publishes nonwoven publications, develops conferences, organizes committees to deal with industry issues.

Standardization  
Activities

Supports the INDA Standard Test Methods Committee, ASTM subcommittee D13.64 under committee D13 on Textiles and provides representative to ISO. Also works with AATCC, TAPPI, and other standards developing organizations.

Availability

Distributed directly.

Keywords

nonwoven fabrics; nonwoven textiles;

## ASSOCIATION OF WALL AND CEILING INDUSTRIES - INTERNATIONAL

Michael A. Gardner, Technical Director

307 E. Annandale Road  
Falls Church, Virginia 22042  
(703) 684-8300

FAX: (703) 534-8307

Founded: 1918

Standards Staff: 1

Type of  
Organization

Trade Association  
Standards Developer - Proprietary and working through technical societies

Standards  
Development

Standards developer since 1918.  
1400 plus members participate in standards activities.

Certification

none

Scope

1400 firms engaged in the application of acoustical tile, drywall, partitions lathing and plastering, fireproofing, and insulation.



**Standardization  
Activities**

Concentrates on application/installation standards development but also monitors and participates in materials and test methods specifications development.

Technical Subcommittees address standardization of materials, systems and application/installation procedures for acoustic systems, carpentry, coatings, demountable partitions, exterior insulation and finish systems (EIFS), fireproofing, flooring systems, lathing, furring, plastering, texturing, insulation, light gage steel framing systems (load and non-load bearing, integrated ceilings systems, open plan systems, door-frame-hardware, and allied fields. Final approval by the Association's Board of Directors when recommended by Technical Committee.

Through the Technical Department, AWCI participates in the activities of ASTM Committees C11; E6; ACIS24.

**Availability**

Sold directly.

**Formerly**

Contracting Plasters International Association (1956)  
Contracting Plasterers and Lathers International Association (1970)  
International Association of Wall and Ceiling Contractors (1976)  
Merger of International Association of Wall and Ceiling Contractors (1976) and Gypsum Drywall Contractors International (1979)

**Keywords**

walls; ceiling; drywall; plaster; acoustic; asbestos; building;

**ATM FORUM**

Anne M. Ferris, Executive Director

303 Vintage Park Drive  
Foster City, California 94404-1138  
(415) 578-6993 FAX: (415) 525-0182  
e-mail: aferris@atmforum.com

Founded: 1991 Standards staff: 5

**Type of  
Organization**

Industry Consortium  
Standards Developer

**Standards  
Development**

Eleven specifications have been published and a similar number are in various stages of development. None are processed through ANSI. Working documents are available to Forum members.

**Standards  
Designation**

ATM xxxv1.0.  
Example: ATM UNIV3.1, User-Network Interface.

**Certification**

None.

Scope	The ATM Forum is a nonprofit international consortium of more than 700 suppliers, service providers, and customers accelerating early availability of asynchronous transfer mode (ATM) computer networking technology. All sectors of the computer and communications industries, as well as end users, research organizations, and government agencies work through the Forum to develop interoperability specifications, promoting convergence of existing standards, and fostering industry cooperation and awareness
Standardization Activities	The ATM Forum Technical Committee works with other standards bodies, such as ANSI and ITU-T (International Telecommunications Union) selecting appropriate standards, resolving differences among standards, and recommending new standards when existing ones are absent or inappropriate. New standards are developed by eleven working groups in such areas as network management, traffic management, signaling, and testing.
Availability	All ATM specifications except ATM UNIV3.0 and v3.1 are available directly from the ATM Forum. The ATM UNI specifications are available through Prentice Hall, 515-284-6751.
Keywords	networking; interoperability; communications; voice; data; video; asynchronous transfer mode; ATM;

#### AUTOMATED IMAGING ASSOCIATION

James A. Peyton, Manager of Standards Development

900 Victors Way

P.O. Box 3724

Ann Arbor, Michigan 48106

(313) 994-6088

FAX: (313) 994-3338

Founded: 1984

Standards Staff: 2

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Standards developer since 1986.

100 representatives participate in the five A15. Standards Subcommittees. Most standards processed through ANSI. Draft standards available for review.

Standards Designation	AIA/A15.0x.
Secretariats	A15.01, A15.05, A15.07, A15.08, A15.09
Scope	Dedicated to promoting the acceptance and productive use of image processing, image analysis and machine vision technologies. The use of these technologies will include both scientific and industrial applications from all aspects of product manufacturing, physical sciences, governmental and research communities. The association's membership includes manufacturers of both related and peripheral products, integrators, end users, consultants and research groups directly involved with these technologies.
Standardization Activities	Standardization in the area of image processing technology including System Communication (A15.01), Performance (A15.05), Terminology (A15.07), Sensor Interfaces (A15.08), Marking and Labeling (A15.09).
Availability	Draft standards available for review; ANSI-approved standards available from the association and ANSI.
Keywords	image processing; machine vision; automatic inspection; automation;

AUTOMATIC METER READING ASSOCIATION

Joyce Paschall, Executive Director

60 Revere Drive, Suite 500

Northbrook, IL 60062

(847) 480-9628

FAX: (847) 480-9282

Founded: 1986

Type of Organization	Trade Association Standards Developer
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**Representation**      Work with the Institute of Electrical and Electronics Engineers (IEEE)

**Scope** A nonprofit nongovernmental educational association whose purpose is to advance the state of telemetry technology for meter reading, energy management, distribution and control. The AMRA exists to further the universal deployment of telemetry services and establish a forum for the research and development of standards, guidelines and practices. Functions in the areas of automatic meter reading and energy management through telemetry technologies (telephone, radio, power line carrier, cable, etc.) primarily for electric, gas and water utilities.

**Standardization  
Activities**

The AMRA Standards Committee works with the Institute of Electrical and Electronics Engineers (IEEE) to develop guide lines and voluntary standards designed to (1) foster the interchangeability of and encourage multiple sources for system components; (2) promote compatibility of existing and future products; (3) facilitate component and system enhancements, including new features, options and additional applications; (4) simplify and lower the cost of system implementations, including specification and selection process; and (5) minimize risk to manufacturers and users.

These guidelines and voluntary standards will cover system component inputs and outputs (including data protocols, hardware interfaces, power requirements, and component protection), environmental conditions, installations, and such other areas as the needs of the Association members may dictate.

The Standards Committee will work to (1) promote the continued development, testing, and integration of new automatic meter reading and telemetry services, equipment and procedures; (2) work with the relevant standards setting bodies of associated industries to promote the consistency of related standards and guidelines; and (3) provide a forum for Association members and other interested parties to develop solutions and approaches to standardization and compatibility issues.

**Keywords**

telemetry; communications; data and information processing; distribution load control; utilities; electrical and electronic equipment; automation;

**AUTOMOTIVE INDUSTRY ACTION GROUP**

William Fleming, Managing Director

26200 Lahser Road  
Suite 200  
Southfield, Michigan 48034  
(801) 358-3570  
WWW: <http://www.aiag.org>

FAX: (801) 358-3253

Founded: 1982

Standards Staff: 50

**Type of  
Organization**

Trade Association  
Standards Developer

Standards Development	<p>Develops standards, standard business practices, and guidelines.</p> <p>More than 1000 individuals participate in standards activities.</p> <p>17 active standards and standard business practices .</p> <p>30 Implementation Guidelines for ASC X12 Standards .</p> <p>28 Guidelines.</p> <p>9 white papers.</p> <p>Distribute 6 Chrysler/Ford/General Motors-developed QS 9000 and related documents.</p>
Certification	<p>Administer the certification process associated with the Chrysler/Ford/General Motors Quality System Standards, QS 9000/QSA, Registrar Training</p>
Scope	<p>Seeks to improve the productivity of its members and the North American Automotive Industry by providing an Organization to:</p> <ul style="list-style-type: none"> <li>• Foster cooperation and communication between customers and their suppliers to improve business processes and practices</li> <li>• Address existing and emerging common issues and apply new and current technology to increase the efficiency of the industry</li> <li>• Promote a sense of urgency in adopting developed standards and business practices</li> <li>• Cooperate and communicate with other industry, governmental and technical organizations</li> </ul>
Standardization Activities	<p>AIAG Member Committees and Focus Groups (Truck Advisory Group and Construction Industry Action Group) focus on business processes or supporting technologies and methodologies. They conduct research and pilot programs; develop, publish and provide training on standards, conventions, standard business practices, white papers and guidelines in the areas of automatic identification (bar coding), CAD/CAM (STEP), EDI/Electronic Commerce, continuous quality improvement, finance and procurement, materials and project management, returnable containers and packaging systems, and North American Customs (NAFTA Content Reporting).</p>
Availability	<p>Distributed directly.</p>
Keywords	<p>barcode; EDI; electronic commerce; STEP; CAD/CAM; QS 9000; quality; returnable containers;</p>



## AUTOMOTIVE LIFT INSTITUTE

E. K. Fox, President

P.O. Box 33116  
Indialantic, Florida 32903  
(407) 722-9993

FAX: (407) 722-9931

Founded: 1945

Standards Staff: 3

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Develops Standards (since 1947).  
25 individuals participating in standards activity.  
2 active safety standards and 1 Procedural Guide.  
Draft standards available thru ANSI's Public Review procedures.

### Standards Designation

Standards are prefixed with "ALI" or with "ANSI/ALI" if they are so adopted, for example "ANSI/ALI B153.1-1990."

### Government Adoption

ANSI/ALI B153.1 has been furnished to Federal and State OSHA divisions and is frequently cited by State OSHA agencies. The "ALI Automotive Lift Certification Program," accepted by inspectors in many states, has not received mandated recognition by federal or state agencies.

### Certification

ETL Testing Laboratories (Cortland, NY) currently is ALI's third-party provider and administrator for our "ALI Automotive Lift Certification Program" initiated in 1993 for the purpose of testing, listing and labeling automotive lifts that meet the criteria of the ALI "Procedural Guide." The Guide describes test requirements and requires: (1) conformance to ANSI/ALI B153.1 for performance; (2) listing to applicable electrical standards; (3) conformance to a documented quality control procedure; and (4) frequent factory surveillance and plant inspections by the administrator.

### Scope

ALI is an association open to U.S. and Canadian manufacturers of automotive lifts and companies which are the sole domestic distributors of an automotive lift line that is manufactured elsewhere. ALI has 20 members which sell in excess of 85 percent of all units shipped annually in the United States and Canada. Most ALI activities, services and publications relate to automotive lift user safety.

### Standardization Activities

ANSI/ALI B 153.1 (1990) has been sponsored by ALI since it was first adopted in 1947 as CS-142. It was then a Commercial (construction) Standard jointly developed with the DOC's Bureau of

Standards. It first became an ANSI Safety (performance) Standard in 1974 (revised 1982 and 1990).

ALI ALOIM-94 is a new industry standard covering operation, inspection and maintenance of lifts. It was submitted in 1995 for adoption as an ANSI Standard (Canvass Method).

ALI's "Procedural Guide for the Automotive Lift Institute Certification Program" was first adopted in 1993 and is the cornerstone for a new industry standard that, when adopted, will specify third-party testing, listing and labeling of automotive lift industry products.

**Availability**

Available from ALI; ANSI/ALI B153.1-1990 also through ANSI.

**Keywords**

automotive lift; vehicle hoist; garage safety;

**AUTOMOTIVE REFRIGERATION PRODUCTS INSTITUTE**

Frank Allison, Executive Director

P. O. Box 470462

Fort Worth, Texas 76147-9462

(817) 338-1161

FAX: (817) 338-1451

Founded: 1983

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Founded September, 1983 to develop Performance standards for the Automotive Refrigeration Industry.

**Scope**

Members are manufacturers and suppliers of automotive refrigerants, also container manufacturers, packagers and distributors, and those manufacturers of parts and tools necessary to assemble and test automotive refrigeration products.

**Keywords**

automotive refrigeration; air-conditioning;

## BAKING INDUSTRY SANITATION STANDARDS COMMITTEE

Barbara Chalik, Secretary-Treasurer

401 North Michigan Avenue  
Chicago, Illinois 60611  
(312) 644-6610

FAX: (312) 321-6869

Founded: 1949

Standards Staff: 3

### Type of Organization

Technical Society  
Standards Developer

### Standards Development

42 active standards.

### Certification

Upon application, equipment is certified in accordance with the procedure set forth by the Certification Board. Standards are used by manufacturers and enforcement agencies.

### Scope

A nonprofit organization dedicated to achieving sanitation in the baking industry. It is supported by trade associations representing manufacturers of baking machinery for wholesale and retail uses, and interested professional sanitarian and engineering organizations. Writing and publication of standards and certification of equipment promoting the sanitary design, construction, and installation of food-processing equipment are the only purposes and functions of this committee.

### Standardization Activities

Develops sanitation standards for baking equipment and is the recognized sanitation standards organization for the baking industry. Government and industry representatives work together in preparing and editing these standards. Task committees are appointed for each specific standard or revision. Final task committee proposals are acted on by the general committee and the BISSC Board of Directors. BISSC standards are published every 4 years in book form. Latest edition: 1994.

### Availability

Distributed directly.

### Keywords

baking equipment; machinery; sanitation;

## BATTERY COUNCIL INTERNATIONAL

Edward M. Craft, Executive Secretary

401 North Michigan Avenue  
Chicago, Illinois 60611  
(312) 644-6610

FAX: (312) 321-6869

Founded: 1924

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Works with SAE, and International Electrotechnical Commission.
Scope	Manufacturers, suppliers of materials, and national distributors of lead-acid storage batteries.
Standardization Activities	Through committees, battery standards and specifications are recommended for use by the industry. The Environmental, Industrial Health, and Technical Committees work with government organizations to help set standards and regulations. Publishes a Battery Replacement Data Book. Revised yearly, this book outlines the types of battery sizes and specifications used in automobiles, both foreign and domestic.
Formerly	The National Battery Manufacturers Association (1940) The Association of American Battery Manufacturers (1970)
Keywords	lead-acid; battery; electrical equipment;

#### BELLCORE - BELL COMMUNICATIONS RESEARCH

Cliff Halevi, Project Director-Standards

Morris Corporate Center  
455 South Street  
Morristown, New Jersey 07960-6438  
(908) 758-2000 FAX: (908) 758-4545  
e-mail: akr@cc.bellcore.com

Type of Organization	Research Institute Standards Developer
Standards Development	Bellcore develops proposed Generic Requirements for equipment or services. These requirements are utilized on a voluntary basis by members of industry. Bellcore has developed more than 1000 Generic Requirements.
Certification	Bellcore's Certification and Registration service provides a client with a mark recognizing that a product has capabilities that are 100 percent conformant with a specified set of criteria. The criteria are derived from widely recognized sources such as standards promulgated by recognized standards bodies or generic requirements proposed and published by Bellcore. Once certification is approved, the Bellcore mark can be displayed on a product subject to the terms of an agreement. A Bellcore directory lists

such products. Registration relates to quality processes used by a client at a specific site, and the 100 percent conformance of those processes to specified process criteria. If approved, the client may use the Bellcore Registration Mark on literature and in advertising under an appropriate agreement. The registration is also listed in an appropriate Bellcore directory. Periodic site visits, tests and inspections are performed to determine whether the product or process adheres to the specifications of the original test sample and the certification or registration remains valid.

**Standardization  
Activities**

Interoperability and network integrity are key elements of the information technology and telecommunications needs of Bellcore clients. In addressing client needs, Bellcore experts provide clients with solutions for new or emerging services, capabilities, and technologies. Bellcore participates in and provides leadership to a number of United States and international standards bodies. Clients for Bellcore's standards program receive timely reports on activities in such standards bodies as T1-Telecommunications, X3-Information Technology, Internet Engineering Task Force, Telecommunications Industry Association, Institute for Electrical and Electronics Engineers, and the International Telecommunications Union. These reports highlight and provide analysis of issues of particular interest to clients.

**Availability**

Publicly available Bellcore technical information can be ordered through:

Bellcore Customer Service  
8 Corporate Place  
Piscataway, New Jersey 08854-4156  
1-800-521-CORE (2673) (USA and Canada)  
908-699-5800 (all Others)  
WWW Site: <http://www.bellcore.com>.

**Keywords**

telecommunications; information technology; networking; certification; generic requirements; information infrastructure; internet; switching; signaling; digital services; fiber optics; synchronous optical network; network integrity; disaster management; security; asynchronous transfer mode; ISDN; ATM; SONET;



**BILLIARD CONGRESS OF AMERICA**

Bruce D. Cottew, Executive Director  
  
1700 South First Avenue  
Suite 25A  
Iowa City, Iowa 52240  
(319) 351-2112                      FAX: (319) 351-7767  
e-mail: <http://www.netins.net/showcase/bcahome/>  
Founded: 1948                      Standards Staff: 3

Type of Organization	Standards Developer
Scope	Organization of players, retailers, proprietors, manufacturers, distributors, and importers of billiards. Serves as a national clearinghouse for billiard activities; makes rules and interpretations.
Standardization Activities	Prepares standards for equipment and rules for billiard and pool games, as well as tournament play. Maintains a Specifications Committee and Rules Committee to coordinate these activities. Publishes the Official Rule Book for all Pocket and Carom Billiard Games.
Availability	Distributed directly.
Formerly	National Billiard Council (1963)
Keywords	billiards; recreation;

**BINDING INDUSTRIES OF AMERICA**

70 East Lake Street  
Chicago, Illinois 60657  
(312) 372-7607                      FAX: (312) 704-5025  
  
Founded: 1960                      Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	20 volunteer members participate in developing standards. 3 current, active standards; all processed through ANSI. Draft standards are available for review.
Standards Designation	BIA/ANSI/V101.

Scope	350 member trade association organized to provide education and training, networking, standards development and other information through newsletters and magazines to trade graphic finishers, loose-leaf manufacturers and suppliers to those industries.
Standardization Activities	Standards developed for vinyl, paper board and metals for use in manufacturing of 3-ring binders. Vinyl standards include testing for cold crack, conventional stability, gauge-taber stiffness, etc. Board and metals from standards.
Availability	Sold directly.
Keywords	three-ring binders; office supplies;

#### BIOLOGICAL STAIN COMMISSION

David P. Penney, Ph.D., Treasurer

Department of Pathology, Box 626  
 The University of Rochester Medical Center  
 Rochester, New York 14642  
 (716) 275-2751 FAX: (716) 273-1027  
 e-mail: dpenney@cc.urmc.rochester.edu

Founded: 1922 Standards Staff: 1

Type of Organization	Scientific Society Standards Developer
Standards Development	70 standards.
Certification	The commission maintains a program of stain certification. Manufacturers and distributors voluntarily submit samples for examination. If the sample meets the commission's specifications, it is approved for marketing as a Certified Biological Stain, and the commission issues certification labels to be affixed to bottles in which it is sold. Certification is on a batch basis, the labels issued by the commission bearing distinctive certification numbers identifying the specific batches with which they are to be used. A sample of each batch is kept on permanent file, and the commission investigates complaints of any unsatisfactory results obtained with a certified stain.
Scope	A nonprofit organization of professional scientists in biology, medicine, and related fields devoted to the establishment of standards for biological stains.

Standardization Activities	Establishes standard specifications for the identification, purity, performance and labeling of the more important biological stains, in order that they may be relied upon as standard tools in biological and medical research. International in scope, the commission has the cooperation of scientific societies whose interests lie in this field, as well as the interest and cooperation of manufacturers and distributors of biological stains.
Availability	The Commission's standards are included in the appendix of Conn's Biological Stains.
Formerly	Commission on Standardization of Biological Stains (1944)
Keywords	biological stains; testing; medical instruments;

## BLUE ANCHOR

	Dennis N. Icardi, President
	P.O. Box 15498 Sacramento, California 95851 (916) 929-3050                      FAX: (916) 921-9362
	Founded: 1901                      Standards Staff: 3
Type of Organization	Agricultural Cooperative Standards Developer since 1930
Scope	A fresh fruit marketing cooperative handling the fruit of 1000 growers organized into local associations and contract shippers. All fruit is subject to the standardization program.
Standardization Activities	Issues standards on all deciduous tree fruit and table grape commodities. Updates the Rules and Regulations for each annual season. The standardization policy is set by a Standardization Committee and enforced by authorized agents of the Field Department. Standards required for company members only. Works with various federal and state marketing orders covering pears, plums, peaches, nectarines, and grapes.
Formerly	California Fruit Exchange
Keywords	food; fruit marketing; agriculture;

## BOOK INDUSTRY STUDY GROUP

Stephen P. Snyder, Executive Vice President

45 William Street, Suite 245

Wellesley, MA 02181-4007

(617) 239-0103

FAX: (617) 239-0106

### Type of Organization

Trade Association  
Standards Developer

### Scope

A nonprofit organization whose members come from all areas of the publishing industry. Specializes in industry research.

### Standardization Activities

Committees review existing standards and select those appropriate for the book industry. Endorsed Bookland EAN bar code for books, Code 128 Representation of the ANSI/NISO standard for serial identification, and the UCC/EAN shipping container standard for bar coding book cartons and shipping containers. The Book and Serial Industry Systems Advisory Committees (BISAC and SISAC) develop standards, some of which are passed on to the National Information Standards Organization (NISO) to become ANSI/NISO standards. BISAC and SISAC developed unique electronic data interchange formats and are now mapping data elements for ASC X12 conversion.

### Keywords

books; serials; publishing; communications; data and information processing;

## BOOK MANUFACTURERS INSTITUTE

Stephen P. Snyder, Executive Vice President

45 William Street

Suite 245

Wellesley, MA 02181-4007

(617) 239-0103

FAX: (617) 239-0106

Founded: 1933

Standards Staff: 2

### Type of Organization

Trade Association  
Standards Developer

### Government Adoption

Quality standard adopted by most states

### Secretariats

Advisory Commission on Textbook Specifications (ACTS)

### Scope

A trade association for book manufacturers and suppliers of book materials and book manufacturing equipment.

Standardization Activities	Together with the Association of American Publishers and the National Association of State Textbook Administrators, provides delegates to the Advisory Commission on Textbook Specification (ACTS) which meets twice each year. ACTS has developed a set of manufacturing standards and specifications which must be met before the purchase of a particular textbook will be considered by most state adoption agencies. This booklet, titled Manufacturing Standards and Specifications for Textbooks (MSST), contains quality standards and specifications for paper, printing, and binding, and provides sample forms which should be used by both the state agencies and the publishers of textbooks. The MSST covers only elementary and high school textbooks.
Availability	Distributed directly.
Formerly	Employing Bookbinders of America (1933)
Keywords	books; textbooks; education; communications;

#### BRASS AND BRONZE INGOT MANUFACTURERS

Type of Organization	<p>Celine A. Stachura, Administrative Assistant</p> <p>200 S. Michigan Avenue Room 1100 Chicago, Illinois 60604-2480 (312) 372-4000 FAX: (312) 939-5617</p> <p>Founded: 1989</p>
Representation	ASTM, SAE, foundry societies, and others
Scope	Manufacturers of ingot brass and bronze for the foundry industry.
Standardization Activities	Cooperates with the American Foundrymen's Society, the Non-Ferrous Founders' Society, and affiliated and similar organizations in developing methodology and standards for the production of copper base alloy castings. Participates with ASTM, SAE, Copper Development Association, and military and federal specifications bodies and others in the development of standards and specifications covering ingot brass and bronze. Involved in development of standard reference materials for NIST and has sponsored and directed basic research relating to copper based alloys. Maintains a Technical Committee to consider related subject matter.



**Formerly** Non-Ferrous Ingot Metals Institute; Brass and Bronze Ingot Institute (1928); Association of Brass and Bronze Ingot Manufacturers (1950).

**Keywords** brass; bronze; casting alloys; materials;

#### BRICK INSTITUTE OF AMERICA

J. Gregg Borchelt, P.E., Vice President of Engineering and Research

11490 Commerce Park Drive

Suite 300

Reston, Virginia 22091

(703) 620-0010

FAX: (703) 620-3928

Founded: 1934

Standards Staff: 4

**Type of Organization** Trade Association  
Standards Developer

**Scope** National association of brick manufacturers and the national authority on brick construction. Promotes the further and proper use of brick.

**Standardization Activities** Standards development, review, writing, and promulgation are the responsibilities of the Engineering and Research Division. Maintains an exchange and liaison with similar organizations in other countries. Also maintains close liaison with government agencies writing standards in the construction industry field, National Institute of Standards and Technology, National Institute of Building Sciences, and the Departments of Housing and Urban Development, Defense, Energy, Labor, and Commerce. Works with other standards writing organizations in the development of standards involving or related to Brick Masonry as follows: American Concrete Institute, American Society of Civil Engineers, The Masonry Society - ACI 530, ASCE 5, Tms 402 Building Code Requirements for Masonry Structures, ACI 530.1, ASCE 6, TMS 602. Specifications for Masonry Structures; American Society for Testing and Materials - Committees C-12 on Mortar for Unit Masonry, C-15 on Manufactured Masonry Units, D-1 on Paint and Related Coatings and Materials, E-5 on Fire Testing and E-6 on Performance of Building Constructions; Building Seismic Safety Council, National Fire Prevention Association

Engaged in research for the development of new standards dealing with masonry design and applications. Currently working on veneer and limit states design standard for masonry in conjunction with the Masonry Standards Joint Committee of the American Concrete Institute, the American Society of Civil Engineers, and The Masonry Society.

Availability	Distributed directly.
Formerly	Structural Clay Products Institute
Keywords	masonry; brick; construction; building;

# **BUILDERS HARDWARE MANUFACTURERS ASSOCIATION**

Peter Rush, Executive Director

c/o Association Management Group  
 355 Lexington Avenue  
 New York, New York 10017  
 (212) 661-4261

FAX: (212) 370-9047

Founded: 1925

Standards Staff: 4

Type of  
 Organization

Trade Association  
 Standards Developer

Standards  
 Development

Standards developer since 1966.  
 70 members active in standards development.  
 23 active standards.  
 23 processed through ANSI.  
 4 standards in development.

Standards  
 Designation

ANSI/BHMA prefix.

Government  
 Adoption

The Department of Defense has adopted all BHMA sponsored ANSI standards.

Certification

Sponsors three certification programs; one for locks, one for door closers and one for exit devices. ETL Testing laboratories is administrator and testing agency for locks and closers. Underwriters Laboratories is the administrator and testing agency for exit devices.

Scope

A national trade association representing manufacturers of builders hardware. Provides programs for its members in the areas of industrial relations, management, and statistical programs.

Standardization  
 Activities

Is accredited by ANSI to develop standards for builders hardware using the canvass method. Participates on NFPA and ASTM Committees.

Availability	Distributed directly, through ANSI, Door and Hardware Institute, and IHS.
Formerly	Hardware Manufacturers Statistical Association (1925-1961)
Keywords	hardware; buildings;

#### BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL

Paul K. Heilstedt, PE, Chief Executive Officer

4051 West Flossmoor Road  
 Country Club Hills, Illinois 60478-5795  
 (708) 799-2300 FAX: (708) 799-4981  
 Founded: 1915 Standards Staff: 80

Type of Organization	Professional Society Standards Developer
Standards Development	Promulgates the BOCA National Code Series of model codes for reference adoption by municipal and state governments.
Standards Designation	BOCA National Building Code; BOCA National Mechanical Code; BOCA National Plumbing Code; BOCA National Fire Prevention Code; BOCA National Property Maintenance Code; BOCA National Energy Conservation Code.
Government Adoption	Codes are adopted by 18 states and 5000 local governments, predominantly in East and Midwest portions of the United States
Certification	Maintains a voluntary education and certification program for construction code officials and other members.
Secretariats	Council of American Building Officials (CABO) One and Two Family Dwelling Code. International Code Council (ICC)
Scope	A nonprofit municipal service membership organization involved in the field of code administration and enforcement, and community development. Goals are to serve the public by advocating the use of safe, suitable, modern construction techniques and materials, through its model codes program; and to serve jurisdictions and their code administrators by providing technological know-how and services related to all specialty areas of code administration and enforcement, in addition to a complete model codes maintenance program.

Membership services include code interpretations, materials and product evaluation reports, plan review, education programs and documents, and administrative reviews. The BOCA National Codes reference and adopt hundreds of consensus standards produced by standards writing organizations.

**Standardization  
Activities**

An annual code development process for each of the BOCA Codes permits anyone to propose a change and participate in the deliberations. All activities are in support of the use of the codes. All activities carried on by the technical and professional staff under the direction of its Chief Executive Officer, appointed by the Board of Directors. BOCA codes state performance requirements for materials under given conditions, and establish evaluation criteria, resulting in reduced construction costs and allowing ingenuity on the part of the designer.

**Availability**

Distributed directly. All codes produced every three years in new editions (current 1995).

**Formerly**

Building Officials Conference of America (1970)

**Keywords**

safety; building; codes; plumbing code; mechanical code; fire code; maintenance code; energy conservation; construction; government officials; health;

**BUILDING OWNERS AND MANAGERS ASSOCIATION INTERNATIONAL**

Michael Jawer, Assistant Vice President, Government and Industry Affairs

1201 New York Avenue NW.

Suite 300

Washington, DC 20005

(202) 408-2684

FAX: (202) 371-0181

Founded: 1908

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1915.

**Secretariats**

ANSI Z65.1 Method for Measuring Floor Area in Office Buildings

<b>Scope</b>	A trade association serving owners and managers of commercial real estate, primarily office buildings. Studies operating costs, rental conditions, occupancy, fire and safety, and other conditions affecting the office building industry.
<b>Standardization Activities</b>	Publishes the ADA Compliance Guidebook; ADA Answer Book; Refrigerant Manual; Emergency Planning Guidebook. Active as a member of three model code organizations (BOCA, ICBO, SBCCI) and the National Fire Protection Association. Also concerned with ASHRAE Standards 15 (Mechanical Refrigeration) and 62 (Indoor Air Quality). Member of the National Institute of Building Sciences (NIBS).
<b>Availability</b>	Distributed directly and through ANSI.
<b>Formerly</b>	National Association of Building Owners and Managers (1908) Building Owners and Manager Association International (1968)
<b>Keywords</b>	rentable space; usable space; floor measurement; high-rise office buildings; energy efficiency; building or facilities management; accessibility; indoor air quality; asbestos; refrigerant management;

#### BUSINESS AND INSTITUTIONAL FURNITURE MANUFACTURERS ASSOCIATION

Russell R. Coyner, Executive Director

2680 Horizon Drive, SE

Suite A1

Grand Rapids, Michigan 49546

(616) 285-3963

FAX: (616) 285-3765

Founded: 1973

Standards Staff: 6

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Standards developer since 1973. 240 member company representatives participating in standards development and maintenance activities. 7 active standards. 6 ANSI/BIFMA Safety and Performance Standards. 1 BIFMA upholstered Furniture Flammability Standard.
<b>Secretariat</b>	US TAG ISO/TC 136
<b>Standards Designation</b>	ANSI/BIFMA prefix or BIFMA.



Government Adoption	The General Services Administration has adopted ANSI/BIFMA standards for use in Commercial Item Descriptions. Memo of Standards Harmonization with Canadian General Standards Board.
Certification	Voluntary certification
Scope	A national trade association that represents the United States companies and companies in other nations engaged in the manufacture of office and institutional furniture. Functions on a national and international level, representing its membership in a wide range of engineering, statistical, and other relationships with public and government agencies.
Standardization Activities	Develops standards for the performance and testing of office and institutional furniture including tests for: 1. office chairs, 2. lateral files, 3. vertical files, 4. desks, 5. lounge furniture, and 6. panel systems furniture, and upholstered furniture flammability for non live-in occupancies. Maintains an Engineering Standards Committee with many subcommittees. Works through other organizations to develop standards specifically, Human Factors and Ergonomics Society. Active in Ergonomics, Environmental regulations and Product Liability areas as well.
Availability	Distributed directly and through ANSI.
Keywords	furniture; office furniture; institutional furniture; office products; environments; desks; chairs; files; panel systems; ergonomics;

Certification	Voluntary certification
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Scope	A national trade association that represents the United States companies and companies in other nations engaged in the manufacture of office and institutional furniture. Functions on a national and international level, representing its membership in a wide range of engineering, statistical, and other relationships with public and government agencies.
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Standardization Activities	<p>Develops standards for the performance and testing of office and institutional furniture including tests for:</p> <ol style="list-style-type: none"> <li>1. office chairs,</li> <li>2. lateral files,</li> <li>3. vertical files,</li> <li>4. desks,</li> <li>5. lounge furniture, and</li> <li>6. panel systems furniture, and upholstered furniture flammability for non live-in occupancies.</li> </ol> <p>Maintains an Engineering Standards Committee with many subcommittees. Works through other organizations to develop standards specifically, Human Factors and Ergonomics Society. Active in Ergonomics, Environmental regulations and Product Liability areas as well.</p>
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Availability	Distributed directly and through ANSI.
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**Keywords** furniture; office furniture; institutional furniture; office products; environments; desks; chairs; files; panel systems; ergonomics;

## CAN MANUFACTURERS INSTITUTE

1625 Massachusetts Avenue NW.  
Washington, DC 20036  
(202) 232-4677 FAX: (202) 232-5756  
Founded: 1939 Standards Staff: 2

Type of Organization	Technical Society
	Standards Developer

Scope	A nonprofit membership corporation representing United States manufacturers of all metal cans. The membership is concerned with government specifications for cans and legislation affecting cans and can standards.
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Standardization Activities	Maintains Can Standards Committee, which develops standards on sanitary cans for sizes in general demand. Creates ad hoc subcommittees as necessary to study and/or recommend specific standards for full committee action. Publishes Recommended CMI Voluntary Industry Can Standards. Recommended standards are strictly voluntary, but conforming is encouraged as being beneficial to can manufacturers and can users.
Availability	Distributed directly.
Keywords	can manufacture; packaging;

#### CARPET AND RUG INSTITUTE

E. Ken McIntosh, Director of Technical Services	
Box 2048	
Dalton, Georgia 30722	
(706) 226-3877	FAX: (706) 278-8835
Founded: 1963	Standards Staff: 4
Type of Organization	Trade Association Works with other organizations to develop standards
Representation	AATCC, ASTM, NFPA and other standard development organizations
Scope	Membership consists of manufacturers representing 95 percent of all carpet produced in the United States, and suppliers of raw materials and services. Works on a national and international level to promote carpet and rugs, to develop standards to be used by the industry, installers, and end users, and to provide satisfaction with carpet and rugs.
Standardization Activities	Participate in development of standard tests used by industry and interested parties to test various components or characteristics of carpets and rugs.
Formerly	American Carpet Institute and the Tufted Textile Manufacturers Association
Keywords	carpet; rugs; consumer products;

## CAST IRON SOIL PIPE INSTITUTE

William H. LeVan, Executive Vice President

5959 Shallow Ford Road  
Suite 419  
Chattanooga, Tennessee 37421  
(615) 892-0137 FAX: (615) 892-0817

Founded: 1949 Standards Staff: 2

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards developer since 1949.  
Technical Committee develops Standards pending approval of the  
Institute's Board of Directors; ASTM A74-94, ASTM A888-94, CISPI  
301-90, CISPI 301-95, endorsed by CISPI.

### Standards Designation

CISPI prefix.

### Government Adoption

HUD, WW-P-401E; PBS (PCD) 15410; DOD 4270.21; CEGS  
15400; CE 300.01; CE 300.02; CE 600.01; NAVFAC TS-15301; and  
NAVFAC TS-15401

### Certification

No certification, qualification, or accreditation programs

### Scope

Aids the United States plumbing industry in cooperation with the  
soil pipe manufacturers. Efforts include product improvement,  
standardization of soil pipe and fittings, and testing, evalua-  
tion, and development in the interest of public health and safety.

### Standardization Activities

Develops standards for cast iron soil pipe and fittings  
which are accepted throughout the United States. These standards  
set dimensions and specifications which provide interchangeability  
between all manufacturer's pipes and fittings. The CISPI Stan-  
dards are national in scope. The Technical Committee administers  
CISPI's Standardization Activities.

The Institute's Technical Committee meets two times a year to  
review standards, engage in research and development activities,  
and update CISPI publications.

### Availability

Through ASTM and plumbing wholesalers and distributors.

### Keywords

cast iron; plumbing; sanitation; construction; building;

## CEDAR SHAKE AND SHINGLE BUREAU

Jack W. Davidson, President

515 116th Avenue, NE, Suite 275

Bellevue, Washington 98004

(206) 453-1323

FAX: (206) 455-1314

Founded: 1915

Standards Staff: 3

### Type of Organization

Trade Association  
Standards Developer

### Standards Designation

Grading Rules for Certi-Split Red Cedar Shakes - 1985.  
Grading Rules for Certigrade Red Cedar Shingles - 1984.  
Grading Rules for Cert-Sawn Red Cedar Shakes - 1981.

### Government Adoption

Adopted by all national model building codes which are now recognized by the U.S. Department of Housing and Urban Development (HUD)

### Certification

Contracts for unannounced third-party inspections of over 300 shake and shingle mills in the northwest United States and Canada. Prints and issues labels for product identification for use by complying mills.

### Scope

Membership includes manufacturers, distributors and users of red cedar shakes and shingles. In addition, inspects and labels shakes and shingles manufactured from species other than red cedar under the auspices of the Wood Shake and Shingle Association, an in-house subsidiary. Promotes the acceptance and use of shake and shingle roofing and siding materials through advertising and trade promotion.

### Standardization Activities

Develops and revises standards relating to the quality, packaging and application of shakes and shingles.

### Formerly

Red Cedar Shingle and Handsplit Shake Bureau - 1988  
RCSHSB formed from merger of Red Cedar Shingle Bureau and Handsplit Cedar Shake Association - 1963  
Red Cedar Shingle Bureau formed in 1915

### Keywords

wood products; roofing; side wall; grading rules; inspection; lumber; building;

## CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION

Jan Foxen, Executive Vice President

579 West North Avenue

Suite 301

Elmhurst, Illinois 60126

(708) 833-1919

FAX: (708) 833-1940

Compuserve 75031,2577

Founded: 1949

Standards Staff: 1

### Type of Organization

Trade Association

Works through other organizations to develop standards

### Representation

ASTM

### Scope

An international organization serving the needs of specialty subcontractors who sell and install ceiling systems, as well as other related products and systems.

Provides programs for exchanging information about the industry and its trends, and develops working alliances with other organizations within the construction contracting industry to deal with common problems.

### Standardization Activities

Participated in the development of the American Society for Testing and Materials (ASTM) Standard Specification for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings (ASTM C635-69), and Standard Recommended Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels (ASTM C636-69). Also active in the development of Recommended Standards for Seismic Restraint of Direct-Hung Suspended Ceiling Assemblies.

### Formerly

National Acoustical Contractors Association (1969)

Ceilings and Interior Systems Contractors Association (1949)

### Keywords

acoustical tile; ceilings; buildings; contractor;

## CEMENTED CARBIDE PRODUCERS ASSOCIATION

Jeffery Wherry, Commissioner

30200 Detroit Road

Cleveland, Ohio 44145

(216) 899-0010

FAX: (216) 892-1404

Founded: 1955

Standards Staff: 3



Type of Organization	Trade Association Standards Developer
Standards Development	30 active standards.
Standards Designation	ANSI B212.x.
Secretariats	Promulgates its documents through ANSI/ASC B212. Accredited Standards Committee for cemented carbide.
Scope	Manufacturers of cemented tungsten carbide cutting tools, dies, and wear parts.
Standardization Activities	Actively engaged in standardization activities through ANSI/ASC Committee B212, TC-1; develops standards dealing with the dimensional, physical, metallurgical, and chemical aspects of cemented carbide products; cooperates with ISO, ASTM, NIST, and others in standards development; standards include turning tools, wire, bar and tube drawing dies; and sampling and testing methods for hard metals.
Availability	Distributed directly.
Keywords	carbide; materials, manufacturing;

#### CERTIFIED AUTOMOTIVE PARTS ASSOCIATION

Jack Gillis, Executive Director

1518 K Street, NW.  
Suite 306  
Washington, DC 20005  
(202) 737-2212

FAX: (202) 737-2214

Founded: 1987

Standards Staff: 2

Type of Organization	Certification Organization Standards Developer
Certification	Included in certification is inspection of the factory, evaluation of quality control manuals used in the manufacture of the parts, inspection and review of the manufacturing process, materials testing, corrosion testing of metal parts and the evaluation of the fit and finish of the final product.
Scope	The CAPA program certifies sheet metal and plastic auto body parts. The program is open to all manufacturers of such parts. There are currently over 1100 competitive aftermarket auto body

parts which have been certified as meeting CAPA's standards for quality, fit and finish.

**Standardization  
Activities**

Standards are developed under the auspices of CAPA's Technical Committee which is made up of representatives from the insurance, auto body parts manufacturers, and parts distribution industries. These standards are developed with the assistance of independent technical testing laboratories.

**Keywords**

aftermarket auto body parts; transportation; automobile; manufacturing;

**CERTIFIED BALLAST MANUFACTURERS**

M. C. Davies, Secretary

1422 Euclid Avenue  
Suite 772  
Cleveland, Ohio 44115  
(216) 241-0711

FAX: (216) 241-0713

Founded: 1939

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Representation**

ANSI, UL.

**Certification**

Certification program for ballasts operating standard fluorescent lamps. Open to any manufacturer who wishes to qualify. To be certified CBM, ballasts must meet performance requirements of ANSI specifications C82.1, including the electrical requirements specified in the C78 standard for the lamp type to be operated. Ballasts must also be UL listed and High Power Factor. Compliance is repeatedly verified by ETL Testing Laboratories, an independent testing organization, which periodically selects samples at random from manufacturers' current CBM production and tests them, as prescribed in ANSI C82.2 and C82.3.

**Scope**

Major producers of ballasts for fluorescent lamps. Promotes fluorescent lighting by encouraging the manufacture of ballasts which provide quality performance.

**Standardization  
Activities**

Works through ANSI to develop standards for fluorescent ballasts.

Formerly Ballast Advisory Committee (1949)  
Keywords fluorescent lighting; ballasts, electrical equipment;

#### CHAIN LINK FENCE MANUFACTURERS INSTITUTE

Mark Levin, CAE, Executive Vice President

1776 Massachusetts Avenue NW.  
Suite 500  
Washington, DC 20036  
(202) 659-3537 FAX: (202) 857-1220  
Founded: 1960 Standards Staff: 1

Type of Organization Trade Association  
Standards Developer

Scope Provides a forum to exchange ideas; promotes the use of chain link fence; collects statistics and works with consumers to develop guidelines for fence products.

Standardization Activities Coordinates the entire fence specification field with the American Society for Testing and Materials. Works toward setting universal standards for fence specification. Develops voluntary consensus standards. Promotes the usage of ASTM standards throughout the industry. Publishes a Product Manual which includes ASTM standards.

Availability Distributed directly.

Keywords fence; construction;

#### CHEMICAL FABRICS AND FILM ASSOCIATION

Charles M. Stockinger, Executive Secretary

1300 Sumner Avenue  
Cleveland, Ohio 44115-2851  
(216) 241-7333 FAX: (216) 241-0105  
Founded: 1927 Standards Staff: 2

Type of Organization Trade Association  
Standards Developer

Standards Development 12 member companies participating in standards activities.  
Draft standards available for review by nonmembers.  
None processed through ANSI.

**Scope** A voluntary, nonprofit trade association which includes among its members 12 North American manufacturers of chemically coated fabrics and PVC sheet and film. Represents its membership in technical, environmental, and governmental affairs of interest to the industry. One of its objectives is to inform and educate the consuming public regarding the uses and merits of chemical fabrics and film; interested in encouraging high standards of quality and service throughout the industry.

**Standardization Activities** Directed toward the setting of voluntary performance and quality standards for various product lines. Solicits input from all interested parties. Works closely with the American Society for Testing and Materials. Committees review and make recommendations on government standards, specifications, and documents; and participate in standards programs with the National Institute of Standards and Technology, Underwriters Laboratories, and other standard setting organizations related to the industry.

Standards are voluntarily adopted by manufacturers and users and applied to various product lines when performance, reliability, and safety are essential.

**Availability** Distributed directly.

**Formerly** Institute of Leather Cloth and Lacquered Fabric Manufacturers (1932)  
Pyroxylin and Resin Coaters Institute (1943)  
Plastic Coatings and Film Association (1948)  
Vinyl Fabrics Institute (1955)

**Keywords** coated fabrics; sheet and film; upholstery; vinyl; wall covering; materials;

CHEMICAL MANUFACTURERS ASSOCIATION

Diana Artemis, Associate Director

2501 M Street NW.  
Washington, DC 20037  
(202) 887-1386 FAX: (202) 463-1593  
e-mail: uscmadta@ibmmail.com

Founded: 1872 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

<b>Standards Development</b>	Processed through ANSI.
<b>Standards Designation</b>	ANSI.
<b>Scope</b>	A nonprofit trade association whose company members represent more than 90 percent of the productive capacity of basic industrial chemicals within this country.
<b>Standardization Activities</b>	<p>As a standards developer using the canvass method, sponsors American National Standard Z129.1, Precautionary Labeling of Hazardous Chemicals. As a standards developer using the committee method, sponsors American National Standards Committee B96, Welded Aluminum-Alloy Storage Tanks.</p> <p>Provides over 50 members to serve as its representatives on national standards committees, boards, and councils dealing with standards for plant equipment, packaging equipment, transportation equipment, and occupational safety and health. Standards organizations include ANSI, AAR, ASME, NFPA, and SSCI.</p> <p>Participates heavily in standards development proposed by other organizations for adoption as American National Standards by the canvass route. Standards organizations include API, CEMA, IEEE, ISA, MSSVFI, NEMA, SPI, and UL. Also participates in ASTM committees dealing with occupational health and safety, waste disposal, spills, and analysis of industrial chemicals.</p>
<b>Availability</b>	Distributed through ANSI.
<b>Formerly</b>	Manufacturing Chemists Association (1979)
<b>Keywords</b>	labeling; hazardous chemicals; materials; processes;

#### CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIATION

D. Douglas Fratz, Director, Scientific Affairs

1913 Eye Street NW.  
 Washington, DC 20006  
 (202) 872-8110

FAX: (202) 872-8114

Founded: 1914

Standards Staff: 3

<b>Type of Organization</b>	Trade Association Standards Developer
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Standards Designation	CSMA prefix or CSMA Bulletin No.
Government Adoption	CSMA product performance evaluation methods have been used for government procurement purposes by GSA. Many have been adopted by ASTM.
Scope	Four hundred companies involved in manufacturing, formulating, packaging, and marketing chemical specialties products, including home, lawn, garden, transportation, institutional, and industrial products. Works in various areas, including federal and state governmental affairs (both legislative and regulatory), communications, public relations, marketing, legal affairs, and scientific and technical affairs.
Standardization Activities	<p>Develops standard product characterization methods, product performance evaluation test methods, and recommended practices for manufacturers and formulators of chemical specialties products through numerous scientific and technical committees in CSMA's six divisions: (1) Aerosol; (2) Industrial and Automotive Specialties; (3) Detergents; (4) Antimicrobial Products; (5) Pesticides; and (6) Polishes and Floor Finishes.</p> <p>Has numerous representatives on committees of voluntary consensus organizations such as ANSI, ASTM, NFPA, ANMC, and AOAC. Standards originated and promoted by CSMA are now ASTM, AOAC, SAE, or other standards as well.</p> <p>Published manuals and compendiums including: Aerosol Guide; Detergents Division Test Methods Compendium; Microbiological Test Methods Compendium; Waxes, and Polishes and Floor Finishes Test Methods and General Information.</p>
Availability	Distributed directly.
Formerly	National Association of Insecticide and Disinfectant Manufacturers (NAIDM)
Keywords	chemical specialties; household chemicals; aerosols; automotive chemicals; disinfectants; sanitizers; detergents; cleaners; pesticides; insecticides; waxes; polishes; floor finishes; materials; consumer products;

# CHLORINE INSTITUTE

Robert G. Smerko, President

2001 L Street, NW.

Suite 506

Washington, DC 20036

(202) 775-2790

Founded: 1924

FAX: (202) 223-7225

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Standards committees of ANSI, ASTM, AWWA, NFPA, and committees of the Association of American Railroads
Scope	Concerned with the safe production, distribution, and use of chlorine, sodium and potassium hydroxides, and sodium hypochlorite; and the distribution and use of hydrogen chloride. Committees provide comments on draft standards pertinent to the chlor-alkali industry.
Standardization Activities	Publishes literature and drawings of equipment as guidelines and recommended safety practices for handling chlorine, sodium and Potassium hydroxides, sodium hypochlorite and hydrogen chloride.
Keywords	chlorine; sodium hydroxide; caustic soda; potassium hydroxide; caustic potash; sodium hypochlorite; bleach; hydrogen chloride; hydrochloric acid; anhydrous hydrogen chloride; chemicals; safety;

#### CLEANING EQUIPMENT TRADE ASSOCIATION

John Hoppenstedt, Executive Director

2535 Pilot Knob Road  
Suite 105  
St. Paul, Minnesota 55120  
(612) 686-7086  
Founded: 1980

FAX: (612) 686-7088

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1981. 50 members participate in standards activities. 12 members are represented on the standards committee for UP Standard 1776.
Standards Designation	Safety Standards for Cleaning Machines.
Scope	An international trade association of manufacturers and distributors which sell commercial-industrial cleaning machines, including cold water high pressure cleaners and blasters, hot water high pressure cleaners, steam cleaners, and water jetting equipment.

<b>Standardization Activities</b>	Activities directed toward the development of nationally recognized Equipment Safety Standards intended to provide a basis for common understanding and reference within the cleaning equipment industry among suppliers, manufacturers, distributors, dealers, resellers or installers, and owner-users. These also serve as reference guides for government agencies and industry when making purchasing decisions. Anticipates standards adoption as national consensus standards through ANSI.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Cleaning Equipment Manufacturers Association (CEMA)
<b>Keywords</b>	cleaning machines; water blasters; industrial equipment; steam cleaners;

#### **COATED ABRASIVES MANUFACTURERS INSTITUTE**

	Charles M. Stockinger, Managing Director
	1300 Sumner Avenue Cleveland, Ohio 44115 (216) 241-7333
	FAX: (216) 241-0105
	Founded: 1933
	Standards Staff: 2
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	5 member companies participate in standards activities. Standards processed through ANSI. Draft standards available for review.
<b>Secretariats</b>	CAMI Technical Committee serves as Technical Committee on Coated Abrasives of the B74 Committee. CAMI Safety and Industrial Health Committee serves as the Technical Committee B7 of the B74 Committee.
<b>Scope</b>	A voluntary, nonprofit association of manufacturing companies which coat and manufacture various types and forms of coated abrasive products in the United States.
<b>Standardization Activities</b>	Develops standards for grading of certain abrasive grains on coated abrasive products. These specifications include grading requirements for screen grit size and sedimentation grit sizes of aluminum oxide, silicon carbide, garnet, emery, and flint abrasive grains for use on coated abrasive products; procedures for recovery of abrasive grains from products to be tested; and procedures for testing recovered abrasive grains to determine if they conform to grading requirements.

Definitions of the trade terms used and methods for identifying products which conform to this standard are included.

Also develops standards which establish the minimum safety requirements related to the usage of coated abrasive forms. Requirements apply to hand-held and fixed-mounted machine operations that use some form of coated abrasive product, and to safety-related maintenance precautions for machines and machine parts. Also contain safety requirements pertinent to operator and bystander protection, dust collection, and potentially hazardous environmental conditions.

**Availability** Distributed directly and through ANSI.

**Keywords** abrasives; manufacturing; safety; industrial equipment;

#### COLLEGE OF AMERICAN PATHOLOGISTS

Lee VanBremen, Executive Vice President

325 Waukegan Road  
Northfield, Illinois 60093-2750  
(847) 446-8800 FAX: (847) 446-8807  
Founded: 1947 Standards Staff: 1

**Type of Organization** Professional Society  
Standards Developer and works through other organizations to develop standards

**Representation** American National Standards Institute  
Association for Advancement of Medical Instrumentation  
Commission on World Standards  
National Committee for Clinical Laboratory Standards  
World Association of Societies of Pathology  
World Health Organization

**Standards Development** A Standards Committee of seven members and four non-members coordinate liaisons with national and international standards setting organizations. The committee identifies problems in standards development and coordinates their solution.

**Certification** The Standards and Reference Materials Program develops and certifies bottled standards and reference materials for standardization of medical laboratory tests, and supervises a cyanmethemoglobin certification program. The bottled materials offered through this program allows external verification of accuracy in test reagents and assay systems. The Surveys Program provides external quality assessment in the form of proficiency testing services. This program assists participating laboratories in meeting federal and state regulations. CAP also sponsors voluntary accreditation

programs for laboratories, forensic urine drug testing, athletic drug testing, and reproductive laboratories. These programs coordinate on-site inspections for a "macro" evaluation of laboratories. The CAP has deeming authority to accredit laboratories per the Health Care Financing Administration CLIA '88 regulations.

**Secretariats**

Commission on World Standards of the World Association of Societies of Pathology (WASP), the WASP Secretariat on Forensic Pathology and the WASP Secretariat on Informatics.

**Scope**

The College of American Pathologists is a not-for-profit professional society of more than 13 600 physicians specializing in the practice of pathology. The College is dedicated to leadership, quality, service and advocacy in laboratory medicine. The CAP pursuit of excellence is made possible by member participation in the development of various laboratory improvement programs offered by the College.

**Standardization  
Activities**

The CAP laboratory improvement programs provide a continuum for medical laboratories and industry to move toward more standardized testing and practices. The external quality assessment schemes of proficiency testing and accreditation allow for identification of areas which are in need of standardization. Once a need for standardization is identified, a solution, either in the form of bottled standard or paper standard, is coordinated.

**Availability**

Participation in the Laboratory Improvement Programs can be requested directly from the CAP. Standards are available directly.

**Keywords**

pathology; medicine; medical; laboratory; proficiency; accreditation; standards; reference materials; health care;



## COLOR ASSOCIATION OF THE UNITED STATES

Margaret Walch, Associate Director

409 West 44th Street  
New York, New York 10036  
(212) 582-6884

FAX: (212) 757-4557

Founded: 1915

Standards Staff: 3

### Type of Organization

Trade Association  
Standards Developer

### Government Adoption

DoD Color Card

### Certification

No certification, qualification, or accreditation programs

### Scope

Membership comes from the textile and fashion industries, and the interior design and environmental fields. Issues seasonal color forecasts of dyed fabrics for women's and men's apparel twice a year. Issues a yearly forecast of interior colors for the interior and environmental fields; these forecasts are applicable to companies producing dyestuffs, paints, automobiles, airplanes, home furnishings, textiles, plastics, cosmetics, and other products. Standardizes government and industry colors; offers consultations; maintains archives and fabric swatch library.

### Standardization Activities

Produces a Standard Color Card of America for the purpose of simplifying color work by establishing color standards favored for use in the United States. The card presents a comprehensive palette of preferred American colors and is primarily directed to the textile, fashion, and environmental industries.

### Availability

Distributed directly.

### Keywords

textile; fashion; interior design; color; sports; consumer products; general;

## COMMERCIAL REFRIGERATOR MANUFACTURERS ASSOCIATION

Robert T. Chancler, Executive Director

1101 Connecticut Avenue NW.  
Suite 700  
Washington, DC 20036  
(202) 857-1145

FAX: (202) 223-4579

Founded: 1933

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	One active standard.
Standards Designation	CRS prefix.
Certification	No certification, qualification, or accreditation programs.
Scope	Manufacturers of refrigerated display cases and cabinets, food service refrigerators, and sectional cooling rooms.
Standardization Activities	Develops and revises Voluntary Minimum Standard for Retail Food Store Refrigerators - Health and Sanitation, CRS-S178 - as required.
Availability	Sold directly.
Keywords	refrigerators; refrigeration;

COMPOSITE CAN AND TUBE INSTITUTE

Kristine Garland, Executive Vice President

1630 Duke Street  
Alexandria, Virginia 22314  
(703) 549-2233 FAX: (703) 549-4912

Founded: 1933 Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Scope	A nonprofit international organization which fosters the collective interests of the composite can, tube, core, and fiber drums industry and their suppliers.
Standardization Activities	Administers a Technical Committee active in standards development.

Does not participate in international programs or federal government standardization activities, except when requests are received for specific information.

Publishes standard testing procedures to provide uniform methods for both manufacturers and users to measure and test the physical characteristics of composite cans, tubes, and cores. Develops and publishes recommended industry standards covering dimensions for certain high volume types of composite cans to accommodate custom-

ers' closing and handling equipment. Publishes guidelines as sources of information for manufacturers and users of industry products. Publishes and revises testing procedures.

**Availability** Distributed directly.

**Formerly** National Fibre Can and Tube Association (1970)

**Keywords** composite cans; composite tubes; packaging; cores; fiber drums;

#### COMPRESSED AIR AND GAS INSTITUTE

John H. Addington, Secretary-Treasurer

1300 Sumner Avenue  
Cleveland, Ohio 44115  
(216) 241-7333

FAX: (216) 241-0105

Founded: 1915

Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards** 35 member companies participate in the standards **Development** development for industry products used in manufacturing, construction, mining, and other industries.

**Scope** A national trade association of companies which manufacture air and gas compressors, pneumatic machinery and compressed air and gas drying equipment.

**Standardization Activities** Representative standards that the institute has developed include performance statements which identify parameters for performance evaluation of centrifugal compressors; a test standard for rating compressed air dryers; and the test code for sound measurement of pneumatic equipment, ANSI S5.1. The latter standard was developed jointly with the European Committee of Manufacturers of Compressed Air Equipment.

**Availability** Sold directly.

**Keywords** noise control; construction; manufacturing; industrial equipment; safety; machinery;

COMPRESSED GAS ASSOCIATION

Carl T. Johnson, President

1725 Jefferson Davis Highway  
Suite 1004  
Arlington, Virginia 22202  
(703) 412-0900

FAX: (703) 412-0128

Founded: 1913

Standards Staff: 15

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Standards developer since 1913.  
250 member companies participating in standards  
activities.  
90 active standards, including metric.

Standards  
Designation

CGA prefix; in some instances, standards also bear ANSI  
and Canadian Standards Association (CSA) designations.

Government  
Adoption

Standards comply with Department of Transportation and  
other government agencies where applicable (federal, state, and  
local regulations).

Certification

No certification, qualification, or accreditation programs

Scope

Provides, develops, and coordinates technical activities in the  
compressed gas industries, including end-uses of products, so that  
they may serve the best interest of the public and industry.  
Active primarily in the fields of safety and technical specifica-  
tions pertaining to the compressed gas and related product and  
service industries, including the medical fields of anesthesia and  
respiration.

Standardization  
Activities

Collaborates with national organizations such as the  
NFPA, the National LP-Gas Association, ASTM, ANSI, AAR, and the  
American Society of Anesthesiologists, to develop far-reaching  
specifications and standards of safety to benefit industry and the  
public.

Compiles information and publishes material, such as the Handbook  
of Compressed Gases, and pamphlets which contain a description of  
the used gases and give in detail the safest methods for handling  
and storing gases. Provides audiovisual presentations.

Conducts national and regional technical meetings and seminars to  
discuss practices, standards, and problems related to the broad  
spectrum of the compressed gas industries.

Submits recommendations to appropriate Government agencies to improve safety standards and methods of handling, transporting and storing gases. Acts as advisor to authorities, some of which are regulatory such as the U.S. Department of Transportation, the U.S. Interstate Commerce Commission, U.S. Coast Guard, U.S. Food and Drug Administration, Canada's Board of Transport, and state, provincial, municipal, and local agencies concerned with the safe handling of compressed gases. Participates in committees of the United Nations and the International Organization for Standardization (ISO).

**Availability** Distributed directly, and through IHS and Global.

**Formerly** Compressed Gas Manufacturers Association (1949)

**Keywords** compressed gases; medical; cryogenic; safety; transportation; materials; cylinders;

#### CONCRETE PLANT MANUFACTURERS BUREAU

CONTROL SYSTEMS MANUFACTURERS DIVISION (CSMD)  
PLANT MIXER MANUFACTURERS DIVISION (PMMD)

Peter T. Vlahos, Executive Secretary

900 Spring Street  
Silver Spring, Maryland 20910  
(301) 587-1400 FAX: (301) 587-4260  
Founded: 1958 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer; affiliated with the National Ready Mixed Concrete Association

**Standards Designation** CPMB, CSMD, and PMMD prefixes.

**Government Adoption** Widely used and referenced in government standards and specifications.

**Certification** CPMB, CSMD and PMMD ratings plates are affixed to concrete plants, control systems and plant mixers meeting Bureau Standards.

**Scope** Develops engineering standards with a view toward simplification and standardization of sizes, capacities, and other criteria associated with the manufacture of concrete plants.



<b>Standardization Activities</b>	Develops standards for concrete plants and concrete mixers. Bureau standards subject to approval by the National Ready Mixed Concrete Association. Represented on committees of the National Ready Mixed Concrete Association. Participates in the development of governmental specifications or their interpretation.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	concrete; concrete plants; materials; construction;

#### CONCRETE REINFORCING STEEL INSTITUTE

	Victor A. Walther, Jr., President, CAE
	933 North Plum Grove Road Schaumburg, Illinois 60173 (847) 517-1200 FAX: (847) 517-1206
	Founded: 1924 Standards Staff: 1
<b>Type of Organization</b>	Trade Association
<b>Scope</b>	Represents mill producers, fabricators, and suppliers of reinforcing bars. Associated members include producers and suppliers of other products used in concrete construction and fabricating equipment manufacturing. Increases the use of reinforcing bars through research, education, promotion, improved efficiency for lower final costs through better design, improved materials, and construction techniques.
<b>Standardization Activities</b>	Technical activities are conducted by the CRSI Engineering Practice Committee and subcommittees on bar supports, placing reinforcing bars, concrete joist construction, detailing reinforced concrete, and splicing reinforcing steel.
<b>Availability</b>	Sold directly.
<b>Keywords</b>	reinforcing steel; concrete; joists; construction; building;

## CONCRETE SAWING AND DRILLING ASSOCIATION

Patrick O'Brien, Executive Director

6089 Frantz Road  
Suite 101  
Dublin, Ohio 43017  
(614) 798-2252

FAX: (614) 798-2255

Type of Organization	Founded: 1972 Professional and Trade Association Standards Developer	Standards Staff: 1
Standards Designation	Standards published in accordance with Construction Specifications Institute (CSI) format.	
Standards Development	Develop standards in concrete cutting industry.	
Government Adoption	None.	
Certification	Certification program being developed for operators of concrete cutting equipment. Certification will begin in April 1996.	
Secretariats	None	
Scope	Association of contractors, manufacturers and affiliated members from the concrete construction and renovation industry. The CSDA mission is to promote the selection of professional sawing and drilling contractors and their methods.	
Standardization Activities	Initial standard defines diamond cutting techniques. Additional standards will be added in the future.	
Availability	Distributed directly.	
Keywords	concrete cutting; diamond cutting; concrete removal; core drilling; wire sawing;	

## CONSORTIUM FOR ADVANCED MANUFACTURING INTERNATIONAL

Bailey H. Squier, Director CIM Standards and Technology

1250 E. Copeland Road  
Suite 500  
Arlington, Texas 76011  
(817) 860-1654

FAX: (817) 275-6450

Founded: 1972

Standards Staff: 2

<b>Type of Organization</b>	R & D Consortium Standards Developer
<b>Standards Designation</b>	ANSI/CAM-I.
<b>Standardization Activities</b>	The scope of CAM-I standards development is focused on information preparation for computer aided/integrated manufacturing systems and methods related to standard software input/output, interfaces, and language specifications. In general, CAM-I does not operate in the field of hardware standards. CAM-I is an accredited standards developer under the ANSI canvass and organization methods. CAM-I develops proposed standards, and encourages development of needed standards by other organizations. It also proposes and fosters national and international standards in association with ANSI, ISO, and other standards groups. CAM-I Research Programs identify needed standards, evaluate benefit to member companies and industry in general, and fund their development.
<b>Scope</b>	A not-for-profit research and development membership consortium of industrial manufacturers advancing the state of the art in manufacturing technology, management, and education. An accredited standards Developer, which processes member-defined and funded industry standards.
<b>Formerly</b>	Computer Aided Manufacturing, International
<b>Keywords</b>	advanced manufacturing; enterprise integration; cost management systems; quality assurance; DMIS; SOI; strategic supply chain management; advanced management systems;

#### CONSTRUCTION INDUSTRY MANUFACTURERS ASSOCIATION

James H. Stollenwerk, President and Secretary

111 East Wisconsin Avenue  
Bank One Plaza 940  
Milwaukee, Wisconsin 53202

(414) 272-0943

FAX: (414) 272-1170

Founded: 1911

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developing Organization
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Standards Development	Power Crane and Shovel Association (PCSA) develops standards for cranes and excavators. The (LEMB) develops standards for vibratory rammers and plates
Standards Designation	PCSA Standard; LEMB prefix.
Government Adoption	PCSA Standards #4 and #5 are referenced by incorporation into ASME/ANSI B30.5 (Mobile and Locomotive Cranes) are requirements within 29 CFR Part 1926 Subpart N.
Certification	PCSA Standards and published reference material qualify cranes and equipment to meet specific requirements for manufacturing and operation.  LEMB Standards provide for the uniform method of rating the equipment.
Scope	CIMA is a nonprofit United States based international trade organization which represents 500 companies manufacturing and marketing construction related machinery and equipment used around the world in the road building, general construction, housing, material-handling, mining, energy management environmental waste management and forestry fields. Also included in the CIMA membership are the support teams of publishers, financial institutions and construction services providers. CIMA activities serve the technical, safety, statistical, public relations and government affairs interest of its member companies, to benefit them and the entire construction industry.  The Association represents the construction equipment manufacturing industry at state and federal levels and it also offers opinions and recommendations for international agreements between the United States government and its trading partners.
Standardization Activities	CIMA disseminates to the construction equipment manufacturing industry the relative "Performance Standards" in the areas of international, federal and state regulations as they pertain to product compliance, product safety, health and the environment. The term "Performance Standard" relates to equipment nomenclature performance criteria for machine safety, protective devices, operational procedures, machine capability limitations, noise characteristics, etc., as opposed to engineering standards which dictate theory and design.  Industry representatives within CIMA Bureaus act on technical issues, including machine nomenclature, classification, specifications, special applications, voluntary consensus standards, regulations, research and equipment procedures (on testing and documentation) and safety oriented issues for machines such as: cranes, roller compactors, soil stabilizers, milling machines, asphalt pavers, rock drills, etc.

CIMA is active in commercial standards that relate to member industries, i.e., product safety, product maintenance, machine operations, certification, testing, inspection, etc. CIA member Bureaus write and publish commercial standards which often become the bases for consensus standards.

**Availability** CIMA Publications are sold directly.

**Keywords** construction; road building; mining;

#### CONSTRUCTION SPECIFICATIONS INSTITUTE

Gregory Balestrero, Executive Director

601 Madison Street  
Alexandria, Virginia 22314  
(703) 684-0300 FAX: (703) 684-0465  
CompuServe: 72113,1665

Founded: 1948 Standards Staff: 18

**Type of Organization** Technical Society  
Standards Developer

**Standards Development** Standards developer since 1964.  
350 guide specifications.  
SPECTEXT - 440 sections.  
SPECTEXT II - 100 sections.  
None processed through ANSI.  
Drafts not available for review.

**Standards Designation** MASTERFORMAT; SPECTEXT; SPECTEXT II; Manual of Practice.

**Government Adoption** The Department of Defense has adopted CSI MP-2-1 MASTERFORMAT, Master List of Titles and Numbers for the construction industry; Section Format and Page Format.

**Scope** A national technical society dedicated to the advancement of construction technology through communication, education, research, and service. CSI serves the interests of more than 19 000 architects, engineers, specifiers, contractors, product manufacturers, and others in the construction industry.



Standardization  
Activities

Activities are directed toward standardization of the language and format of construction specifications, as well as format, organization, and coordination of the contents of the Project Manual for a construction project.

Publishes a Manual of Practice which provides techniques, procedures, and formats for the preparation and organization of construction documents. Included is MASTERFORMAT which was jointly issued with CSI's Canadian counterpart, Construction Specifications Canada. MASTERFORMAT provides a uniform system for organizing project cost data, and for filing product information and other technical data. The 16-Division concept presented in MASTERFORMAT has been adopted by government and private practices as a uniform approach for the organization of information contained in construction project manuals.

Produces SPECTEXT and SPECTEXT II through its research affiliate, The Construction Sciences Research Foundation (CSRF). SPECTEXT is a 440 section library of master guide specifications for construction projects prepared in accordance with CSI recommended practices. SPECTEXT II is for smaller, less complex projects. CSI has also developed a product information retrieval system (-SPEC-DATA II) and an automated computerized system for specification text manipulation adaptable to all types of master specification programs.

Availability

Sold directly.

Keywords

specifications; formats; construction documentation; construction; information processing;

CONSUMER FEDERATION OF AMERICA

Stephen Brobeck, Executive Director

1424 16th Street NW.  
Washington, DC 20036  
(202) 387-6121

FAX: (202) 265-7989

Founded: 1968

Type of  
Organization

Consumer Advocacy Organization  
Works through other organizations to develop standards

Representation

ASTM Committee F-15.  
Consumer Products FDA.  
Cosmetic Ingredient Review.

Scope	Consumer membership organization composed of more than 200 national, state, and local groups committed to the goals of consumer advocacy and education. Advances pro-consumer policy before Congress, the Administration, regulatory agencies, and the courts; assists state and local consumer groups; and increases public and media awareness of consumer needs.
Standardization Activities	Provides the consumer perspective for organizations which develop standards.
Keywords	consumer advocacy; consumer products;

#### CONTAINERIZATION AND INTERMODAL INSTITUTE

Type of Organization	Barbara Spector Yeninas, Executive Director  185 Fairfield Avenue Suite 2-D West Caldwell, New Jersey 07007 (201) 226-0160 FAX: (201) 226-4274  Founded: 1960
Scope	A membership trade association of shippers, carriage operators, terminal and port managers, and equipment manufacturers engaged in serving the containerization industry.
Standardization Activities	Works through ISO and ANSI to develop standards. Works closely with the Transportation Association of America, Society of Packaging and Handling Engineers, Packaging Institute, Society of Automotive Engineers, and the National Defense Transportation Association.
Formerly	Containerization Institute
Keywords	containerization; intermodal transportation; cargo handling; transportation; packaging;

#### CONTRACTORS PUMP BUREAU

Type of Organization	Sandi Savaglia, Member Services Administrator
Scope	111 East Wisconsin Avenue Milwaukee, Wisconsin 53202 (414) 272-0943 FAX: (414) 272-1170

Founded: 1937

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1937. 12 members participating in standards activities. Standards not processed through ANSI.
Standards Designation	Contractors Pump Bureau standards.
Government Adoption	Standards have been adopted by many state and local governmental agencies and by the U.S. Navy.
Certification	Certification is by the individual manufacturer who states that his products are manufactured in accordance with the standards of the Contractors Pump Bureau.
Scope	A national organization of manufacturers of pumps for use in the construction industry. Standards currently in use are the 15th revision adopted by the Bureau in July 1976.
Standardization Activities	Aimed toward the proper understanding and utilization and the various types of pumps used for construction. Assists users to determine the type and size of pump best suited for a specific job. Developed the Certified Performance Seal used by manufacturers. Does not test, inspect or certify pumps. Active standards self-priming centrifugal pumps, trash pumps, diaphragm pumps, and electrically driven submersible pumps.
Availability	Distributed directly.
Keywords	pump; construction; industrial equipment;

#### CONVEYOR EQUIPMENT MANUFACTURERS ASSOCIATION

Robert A. Reinfried, Executive Vice President

9384-D Forestwood Lane

Manassas, VA 22110

(703) 330-7079

FAX: (703) 330-7984

Founded: 1933

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	20 active standards; works through ANSI.

Standards Designation	CEMA and ANSI/CEMA prefixes.
Scope	A trade association of 90 Manufacturers and engineers of conveyors and conveying systems, portable and stationary machinery used in transport of raw materials and finished products in warehouses and on assembly line operations.
Standardization Activities	Develops standards for design, manufacture, and application of conveying machinery and component parts. Activities administered by CEMA Product Sections and CEMA Engineering Conference. Member of the American National Standards Institute. Also works with other organizations, such as the American Society of Mechanical Engineers, and with Federal Government organizations including the Occupational Safety and Health Administration, Office of Standards and the Bureau of Mines.
Availability	Sold directly and through ANSI.
Formerly	Association of Conveyor and Material Preparation Equipment Manufacturers (1935) Conveyor Association (1945)
Keywords	conveyors; machinery; industrial equipment;

#### COOKWARE MANUFACTURERS ASSOCIATION

	Hugh Rushing, Executive Vice President
	P.O. Box 531335 Mountain Brook, Alabama 35253-1335 (205) 802-7600 FAX: (205) 802-7610 Founded: 1922 Standards Staff: 1
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1963. 23 members participating in standards activities. 16 active standards. All processed through ANSI. Draft standards available for review.
Standards Designation	CMA prefix.
Certification	No certification, qualification, or accreditation programs.

Scope	A national trade association that represents United States companies engaged in the manufacture of cookware, bakeware, and miscellaneous cooking accessories. Promotes the welfare of the cookware industry, improves services to the public, and carries out activities in furtherance of the industry consistent with the public interest.
Standardization Activities	Establishes voluntary standards for products manufactured within the industry. Standards are intended as guides to aid the manufacturer, user, and general public. Standards cover procedures for determining sizes and capacities, uniform terminology for finishes and decorations, specifications for plastic handles and knobs, safety and health guidelines, metal specifications, and metric guidelines. Standards activity is the responsibility of a Standards Engineering Committee of domestic cookware/bakeware manufacturers. ANSI Z61.1-1979 has adopted all CMA standards for metal cookware and bakeware.
Availability	Sold directly and through ANSI.
Formerly	Aluminum Ware Association (1963) Metal Cookware Manufacturers Association (1981)
Keywords	cookware; bakeware; microwave; food; consumer products;

#### COOLING TOWER INSTITUTE

Virginia A. Manser, Administrative Manager

P.O. Box 73383

Houston, Texas 77090

(713) 583-4087

Founded: 1950

FAX: (713) 537-1721

Standards Staff: 8

Type of  
Organization

Technical Society  
Standards Developer

Standards  
Development

Standards developer since 1950.  
425 members participate in standards activities.  
40 active standards.  
None processed through ANSI.

Standards  
Designation

STD - Standard.  
ATC - Acceptance Test Code.  
WMS - Wood Maintenance Standard.  
NCL - Nomenclature.



<b>Government Adoption</b>	Many government bids include CTI Standards as part of the specifications.
<b>Certification</b>	The Cooling Tower Institute may certify that a line of towers will perform in accordance with the manufacturers' published ratings. Under STD-201.
<b>Scope</b>	A nonprofit, technical association dedicated to the improvement of technology, design, performance, and maintenance of cooling towers and cooling tower systems. Consists of manufacturers, users, and suppliers of equipment and chemicals, as well as engineering firms having an interest in problems related to cooling water including water and air pollution. International membership.
<b>Standardization Activities</b>	The standards activities of the Cooling Tower Institute are accredited by ANSI and center on fulfilling user-defined requirements of the industry and its customers. There are 10 published standards, including recommended grades, grading rules, and allowable design stresses for redwood lumber; methods and instrumentation for determining water cooling capability of mechanical draft towers; and recommended material, manufacturing limitations, design requirements and allowable loads for timber fasteners. The Institute is also active on standards committees of NACE, ASME, and others.
<b>Availability</b>	Sold directly and through IHS.
<b>Keywords</b>	cooling; industrial equipment; water;

#### **COPPER DEVELOPMENT ASSOCIATION**

Arthur Cohen, Manager Standards and Safety Engineering

260 Madison Avenue  
New York, New York 10016  
(212) 251-7200  
Founded: 1963

FAX: (212) 251-7234  
Standards Staff: 2

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASTM, ASME, AWWA, SAE, NACE
<b>Standards Designation</b>	Standards Handbook.
<b>Secretariats</b>	U.S. TAG for ISO/TC 26, Copper and Copper Alloys.

Scope	An engineering development and market research organization for the copper and brass industry; develops new markets for copper and copper alloys; creates new concepts; builds prototypes and proves commercial feasibility for new applications of copper, brass, and bronze. Provides technical support to users of copper and copper alloys.
Standardization Activities	Carries out standardization activities for brass mill and foundry products. Publishes the Standards Handbook which covers tolerances; alloy data, both wrought and cast; terminology; engineering data; sources; and a specifications cross index. Cooperates with ISO and Pan American Standards Commission (-COPANT). Reviews federal and military standards. A Technical Service and Standards Advisory Committee coordinates publication activities and participation in voluntary standard organizations.
Availability	Distributed directly.
Formerly	Copper and Brass Research Association
Keywords	copper; brass; bronze; materials;

#### CORDAGE INSTITUTE

G.P. Foster, Executive Director

350 Lincoln Street  
 Hingham, Massachusetts 02043  
 (617) 749-1016 FAX: (617) 749-9783  
 Founded: 1920 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1924.
Scope	Composed of rope and twine manufacturers in the United States, with some Canadian manufacturers and Cordemex of Mexico as special members. Promotes interests of the industry and improves its services to the public; compiles and distributes information; cooperates in handling problems common to the industry.
Standardization Activities	Maintains a Technical Committee which develops or participates in developing voluntary, consensus specifications for hard fiber and synthetic rope and twines. Works closely with the U.S. Army, U.S. Navy, the Maritime Administration, the Coast Guard, the General Services Administration, and others. Works with the Defense Supply Agency (Defense Industrial Supply Center) in regard to military requirements. Cooperates with private organizations including American Merchant Marine Association

(towing hawsers on ocean going vessels); American Society of Mechanical Engineers (sling specifications); National Ski Area Association (rope tow and rescue rope specifications); New York City Fire Department (rescue ropes); public utility companies (specifications and test methods); National Fire Protection Association; and Oil Companies International Marine Forum.

Advises users, consumers and engineers on technical aspects of cordage, twines and ropes.

Ongoing projects include review of testing procedures for breaking strength standards, safety factors, updating of current DI specifications for ropes, chemical and temperature resistance of cordage fibers, resource or expert witness and testing laboratories, and development of standards for abrasion and wet tensile strength.

Participates in the activities of Technical Committee 38 - Textiles of the International Organization for Standardization (ISO), American Society for Testing and Materials (ASTM), Oil Companies International Marine Forum (OCIMF), National Fire Protection Association (NFPA).

Publishes technical data, including Quality Control-Minimum Standards; Specifications for Natural and Man-made Fiber Ropes; Standard Test Methods for Synthetic Fiber Ropes; Bend Tests Made on Natural and Synthetic Fiber Ropes; The Cordage Industry Directory; the Safe Use of Rope; Agricultural Twine Standards; Tying Twine standard; Cordate and Rope Definitions; Standard Terminations for Testing; and General Rope Usage.

**Availability**

Distributed directly.

**Keywords**

rope; cordage; industrial equipment; twine; netting;

**CORN REFINERS ASSOCIATION**

Kyd D. Brenner, Vice President

1701 Pennsylvania Avenue, NW.

Washington, DC 20006

(202) 331-1634

FAX: (202) 331-2054

Founded: 1913

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Nine member companies active in a variety of standards organizations
Scope	Association for the United States corn wet milling industry. Provides services in the areas of research, public information, and government relations.
Standardization Activities	Cooperates with United States and international standards developing organizations. Maintains an Analytical Quality Systems Committee which develops and publishes Standard Analytical Methods of the Member Companies for use in analyzing industry products. Cooperates with analytical groups such as AOAC in this endeavor. Does not issue product standards or specifications, but cooperates with governmental bodies such as FDA, FCC, USDA, USP, and Food and Agriculture Organization/World Health Organization (FAO/WHO). This activity is coordinated by the Scientific and Applied Development Committee.
Formerly	Corn Industries Research Foundation (1966) Associated Corn Products Manufacturers (1932) American Manufacturer's Association of Products from Corn (1923)
Keywords	corn; corn products; corn starch; agriculture; food;

#### CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

Ed Albrigo, President

8260 Willows Oaks Corporate Drive

Fairfax, Virginia 22130

(703) 205-2700

FAX: (703) 846-8590

Founded: 1986

Standards Staff: 5

Type of Organization	R & D Consortium Works through other organizations to develop standards
Representation	COS contributes to, observes, or interacts with all the Information Technology related standards bodies and all those organizations that relate to the IT standards bodies including ISO, CCITT, IEEE, ANSI, NIST, SPAG, POSI, OSI/NMF, X-OPEN, OSF and others.

<b>Scope</b>	COS is a research and development consortium funded by a coalition of computer and communications manufacturers, major commercial and industrial users of networked systems, elements of the civilian and defense arms of the United States government and foreign government and commercial organizations. It includes the North American MAP/TOP Users Group and has numerous university, trade and user group association affiliates.
<b>Standardization Activities</b>	COS selects and implements test suite specifications and profiles based on international OSI/ISDN and related standards, contributes to the setting of conformance testing standards, and administers a product certification program - the COS MARK - which serves as a means of promoting high quality conformance and interoperability testing for OSI/ISDN products and services and is an indicator to prospective product purchasers of product interoperability. COS also works with users of open systems to promote the necessary requirements for enterprise, multi-vendor interoperability.
<b>Keywords</b>	OSI; open systems interconnection; ISDN; integrated services digital network; MAP; manufacturing automation protocol; TOP; technical and office protocol; interoperability; data communications; networking;

**COSMETIC, TOILETRY AND FRAGRANCE ASSOCIATION**

E. Edward Kavanaugh, President

1101 17th Street, NW.  
Suite 300  
Washington, DC 20036  
(202) 331-1770

FAX: (202) 331-1969

Founded: 1894

Standards Staff: 8

**Type of Organization**

Trade Association  
Standards Developer

**Standards Development**

Developer of more than 300 specifications (voluntary standards) and 500 chemical descriptions since 1942. Development of standard nomenclature for raw materials since 1972. Development of Technical Guidelines (voluntary standards) series that began with microbiology guidelines (1969), and expanded into quality assurance (1972), safety substantiation (1975), and finally Occupational and Environmental Safety and Health (1984). None of these publications are processed through ANSI.



**Scope**

A national trade association representing the cosmetic and personal care products industry. Active membership includes 250 companies that manufacture or distribute 80 percent of the finished cosmetic products marketed in the US. Also includes 265 associate member companies from related industries which provide services to the cosmetic industry. These include manufacturers of raw materials and packaging testing facilities. CTFA represents its membership internationally in a range of scientific and regulatory areas.

**Standardization  
Activities**

Specifications developed by a 20-member committee of analytical chemists representing both cosmetic product manufacturers and suppliers. Has responsibility for the publication of the CTFA Compendium of Cosmetic Ingredient Composition, which includes specifications that chemically characterize and describe cosmetic ingredients, and test methods and spectra that correspond to these specifications; descriptions of raw materials are provided where specifications have not been developed. Specifications are strictly voluntary and designed to represent the type of ingredients used by the industry. The CTFA Compendium represents the largest collection of authentic specifications on cosmetic ingredients.

In compliance with Food and Drug Administration's regulations, the Association provides standard nomenclature for cosmetic raw materials. A twelve member committee develops this nomenclature. CTFA *Technical Guidelines* are developed by committees from member companies (15-35). The specific areas addressed by industry expertise are: quality assurance; microbiology; safety testing; and occupational and environmental safety and health (OESH). Guidelines are reviewed by the Scientific Advisory Committee that comprises representatives from all member companies. A public review, announced by a press release, precedes publication. Updates are developed as needed. The current series contains 23 guidelines in the area of quality assurance; 10 guidelines addressing safety substantiation and safety testing; 16 microbiological quality guidelines plus 4 specific methods for preservation testing/validation; 11 OESH guidelines.

**Availability**

Sold directly.

**Formerly**

Toilet Goods Association (1935-1971)

**Keywords** cosmetic ingredients; cosmetics; toiletry; fragrance; laboratory testing; materials; consumer products; personal care products;

**COTTON WAREHOUSE ASSOCIATION OF AMERICA**

Donald L. Wallace, Executive Vice President  
  
1150 Connecticut Avenue, NW.  
Suite 507  
Washington, DC 20036  
(202) 331-4337 FAX: (202) 331-4330  
Founded: 1969 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Scope** Consists of cotton compress and cotton warehouse owners and operators in the cotton belt states from the Carolinas to California. Associate membership is available to industry-related businesses, such as insurance companies, banks, equipment dealers, manufacturers, steamship and truck lines.

**Standardization Activities** Maintains Special Committees on Bale Preparation, Insurance and Standards, and Research and Engineering, which work closely with United States manufacturers of cotton bale ties and buckles, with a view to improving their quality, strength, and reliability. Resulting standards, widely used since 1956, cover width of ties, thickness of ties, minimum elongation of ties under stress, flatness of ties, weight and minimum tensile breaking strength of both ties and buckles.

**Availability** Distributed directly.

**Formerly** Merger of the American and the National Cotton Compress and Cotton Warehouse Associations (1969)

**Keywords** cotton; materials;

**COUNCIL OF AMERICAN BUILDING OFFICIALS**

Richard P. Kuchnicki, Chief Executive Officer  
  
5203 Leesburg Pike, Suite 708  
Falls Church, Virginia 22041  
(703) 931-4533 FAX: (703) 379-1546  
  
Founded: 1972 Standards Staff: 20

Type of Organization	Model Code Organization Standards Developer
Secretariat	ANSI/CABO A117.1, American National Standard for Building and Facilities--Providing Accessibility and Usability for Physically Handicapped People
Scope	CABO is a consortium of the following model building code organizations: Building Officials & Code Administration International, International Conference of Building Officials, and the Southern Building Code Congress International
Standardization Activities	The members of CABO are the three model building code organizations. Through CABO they coordinate development of their respective codes and cooperate with other organizations and the federal government. CABO itself has been used as a vehicle for the development of the One and Two Family Dwelling Code and the Model Energy Code which in turn is based on the ASHRAE standard for energy conservation in new building design. It has also developed the CABO Manufactured Home Construction and Safety Standards.
Keywords	safety; building; codes; energy conservation; construction; accessibility; government officials;

#### DAIRY AND FOOD INDUSTRIES SUPPLY ASSOCIATION

Thomas M. Gilmore, Ph.D., Technical Director

1451 Dolley Madison Blvd.  
McLean, Virginia 22101-3850  
(703) 761-2600

FAX: (703) 761-4334

Founded: 1912

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developed since 1944. 1000 Members and non-members of DFISA cooperate in standards development. Draft standards available to 3-A Committee members through DFISA. 69 3-A Sanitary Standards; and 10 3-A Accepted Practices. None processed through ANSI.

<b>Standards Designation</b>	3-A Sanitary Standards; 3-A Accepted Practices
<b>Government Adoption</b>	Cited in recommended Grade "A" Pasteurized Milk Ordinance of U.S. Public Health Service. Cited in U.S. Department of Agriculture plant regulations. Accepted by state and local public health and agriculture agencies throughout United States and Canada by Department of Defense.
<b>Certification</b>	Equipment complying with the standards may carry 3-A symbol, contingent upon authorization from the 3-A Symbol Council. Self-certification process.
<b>Scope</b>	DFISA represents the manufacturers of supplies and equipment for the dairy industry. The 3-A mission is to provide sanitary criteria for food and dairy equipment.
<b>Standardization Activities</b>	DFISA cosponsors the 3-A Sanitary Standards program with other dairy and egg processor trade associations; houses the secretary of the program and coordinates the work of 50 specific task committees which develop the standards. Implements standards activity through the DFISA Technical Committee and 50 working task committees, comprise of DFISA members and nonmembers DFISA sponsors the 3-A Sanitary Standards program for dairy equipment and the E-3-A Sanitary Standards for specialized egg processing equipment. Cooperates with local, state and federal agencies, equipment manufacturers and processors, distributors, and public health officials in developing 3-A Sanitary Standards.
<b>Availability</b>	Published in Diary of Food and Environmental Sanitation Distributed by International Association of Milk, Food, and Environmental Sanitarians (IAMFES), 6200 Aurora Avenue, Des Moines, Iowa, 50322-2838 (515) 276-3344 or (800) 369-6337.
<b>Keywords</b>	dairy; food; equipment; egg; cleanability;

#### DATA INTERCHANGE STANDARDS ASSOCIATION

Regina Girouard, Manager, Secretariat Services

1800 Diagonal Road  
Suite 200  
Alexandria, Virginia 22314  
(703) 548-7005  
e-mail: [rgirouar@disa.org](mailto:rgirouar@disa.org)  
WWW: <http://www.disa.org>

FAX: (703) 548-5738

**Type of  
Organization**

Professional Association  
Standards Developer

**Standards  
Development**

In 1987, DISA became the secretariat to ANSI's Accredited Standards Committee (ASC) X12, which develops standards for electronic data interchange (EDI). In 1990, DISA became the secretariat for the Pan American EDIFACT Board (PAEB), which develops the Pan American position on the international, EDIFACT standards for EDI. ASC X12 membership is approximately 875. Membership in the PAEB is by country; full member countries are the United States, Brazil and Chile; associate members are Argentina, Colombia, and Venezuela. X12 Standards for EDI are initially published as Draft Standards for Trial Use (DSTUs, fully implementable). ASC X12 had published 260 DSTUs as of December 1995. ASC X12 has had 20 standards designated American National Standards by ANSI; in 1997, ASC X12 will forward approximately 300 DSTUs for consideration as American National Standards. The PAEB participates in developing EDIFACT Standards that are published with two designations: Status 1 Draft Messages (fully implementable) and Status 2 United Nations Standard Messages (UNSMs, also fully implementable).

DISA publishes both the X12 and EDIFACT Standards as works in progress and as approved for implementation. Contact DISA's Technical Department for more information.

**Standards  
Designation**

X12 Standards for EDI are most commonly referred to as "transaction sets" and carry a three-digit identifier along with a title descriptive of their function, for example, Transaction Set 820, Purchase Order. EDIFACT Standards are most commonly referred to as "messages" and carry a six-letter acronym, for example, INVOIC.

**Government  
Adoption**

The U.S. Government has adopted both the ASC X12 and UN/EDIFACT Standards as Federal Information Processing Standards (FIPS).

**Certification**

None.

**Secretariats**

ASC X12 Pan American EDIFACT Board, U.S. TAG for ISO TC 154  
U.S. TAG for JTC 1 SC 30, Open-edi.

**Scope**

DISA provides EDI standards groups with comprehensive support in development, balloting, and publication /distribution of their work products. It also acts as the national leader in providing education about EDI standards and their implementation.



Members in ASC X12 and the PAEB comprise DISA's core customers; PAEB participants are individuals who are Members of national organizations chosen to represent a particular country's interest in international EDI standards development. ASC X12 members range from individuals interested in the progress of EDI to United States national and multinational corporations that recognize the competitive advantage they can gain by participating in standards development. In addition, many software companies and companies that run communications networks participate in ASC X12 and PAEB.

#### **Standardization Activities**

ASC X12 operates by a consensus-driven process. The committee is organized into subcommittees that represent functional areas of industry and commerce--for example, X12N Insurance Subcommittee develops standards for use in property and casualty as well as health care insurance. Other ASC X12 subcommittees develop standards for common transactions in areas such as finance, education administration, materials management, government, and transportation. These subcommittees forward their work to a Technical Assessment Subcommittee; when work is deemed technically accurate, it is forwarded to the entire ASC X12 membership for ballot. Approved work is published as Draft Standards for Trial Use and two types of Technical Reports--Reference Models and Tutorials.

Participants in the PAEB develop the Pan American position on international EDI standards being considered worldwide for publication by the United Nations. The PAEB position is forwarded twice each year to the bi-annual meetings of all regional EDIFACT Boards and results in approved draft messages and U. N. Standard Messages.

#### **Availability**

X12 and EDIFACT Standards for EDI are available directly. X12 American National Standards are available from ANSI as Version 3, X12 Standards for EDI.

#### **Formerly**

Although DISA has never gone by any other name, the former secretariat to ASC X12 was the Transportation Data Coordinating Committee or TDCC. Previous to 1992, the Pan American EDIFACT Board was known as the North American EDIFACT Board.

#### **Keywords**

electronic data interchange; EDI; transaction sets; X12; EDIFACT; TDCC; electronic commerce;

## DATA PROCESSING MANAGEMENT ASSOCIATION

Michael R. Wokitsch, Executive Director

505 Busse Highway  
Park Ridge, Illinois 60068  
(708) 825-8124  
CompuServe: 70430,35

FAX: (708) 825-1693

Founded: 1951

Type of Organization	Professional Society Works through other organizations to develop standards
Representation	ANSI X3
Scope	National and international organization of 33 000 members engaged in data processing, systems development, and use and management of computers and related equipment.
Standardization Activities	Participates in standards development in the data standardization field through its membership and active representation on the American National Standards Committee X3 on Computers and Information Processing. Encourages and publicizes efforts toward the development of standards in data processing equipment, terminology, data codes, analysis, documentation, and computer programming languages through its quarterly publication Information Executive. Solicits review and comment by its members on proposed standards.
Formerly	National Machine Accountants Association (1951-1962)
Keywords	data processing; information systems management; computers;

## DFA OF CALIFORNIA

Frank A. Mosebar, President

P.O. Box 270-A  
303 Brokaw  
Santa Clara, California 95052  
Founded: 1908

Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1909.

Standards Designation	DFA Dried Fruit and Tree Nut Grades and Specifications.
Certification	DFA of California Certificate of Quality is issued for shipments meeting industry requirements and grades for superior quality. Certificates issued as a result of this type of inspection have achieved worldwide acceptance and establish a prime focal evidence of a "delivery" by the shipper. Services also include prune, walnut, and fig inspections as required by federal or state marketing orders governing these products, and inspections of the majority of dried apples, cut fruits, and pistachio nuts produced in California under private contract.
Secretariats	U.S. Technical Advisory Group for ISO/TC 34 - Subcommittee 13, Dried Fruit. ECE, Group of Experts on dry and dried fruit.
Scope	An association of California's dried fruit and tree nut processors handling 95 percent of California's annual one billion dollar dried fruit and tree nut production.
Standardization Activities	Establishes grade standards, considered national in scope, for dried fruits and tree nuts. These define defects and certain quality standards as set forth in USDA grades and industry specifications. Standards comply with both the domestic and foreign requirements. Buyers need to know that goods shipped comply with contract descriptions. Standards developed encompass industry specifications for dried fruit and tree nuts produced in California. Also acts as the research agency in developing such standards as may be required for new products developed in the dried fruit industry. Cooperates with foreign governments and submits food additives petitions used in the dried fruit and tree nut industries.
Availability	Distributed directly.
Formerly	Dried Fruit Association of California
Keywords	dried fruit; tree nuts; agriculture; food; inspection;

DIAMOND WALNUT GROWERS

William Cuff, President

1050 South Diamond Street  
P.O. Box 1727  
Stockton, California 95201  
(209) 467-6000 FAX: (209) 467-6250

Founded: 1912

Type of Organization	Trade Association. Standards Developer.
Standards Development	80 domestic, 6 Canadian, 44 foreign, 129 special customer standards.
Certification	DWGI employs a Quality Control Department and the services of DFA of California to certify products during processing and at time of shipment.
Scope	A nonprofit cooperative association owned by 2200 walnut growers who produce 48 percent of the walnuts grown in the state of California.
Standardization Activities	<p>Develops standards for shelled walnuts with all statements of tolerances restraints and definitions concerning size, color, and defective kernels from United States Standards for Shelled Walnuts (Juglans regia), 23 F.R. 10354, January 25, 1959, and Department of Agriculture, Consumer and Marketing Service Walnut Color Chart of 1967, except where superseded by the Code of Federal Regulations, Title 21, Section 128.10, March 30, 1972, or other applicable sections. Established four color and five size standards for inshell walnuts with tolerances and definitions concerning size, color, and grade defects from United States Standards for Grades of Walnuts (Juglans regia) in the Shell, 29 F.R. 12865, September 12, 1964, as amended September 1, 1968, 33 F.R. 10840.</p> <p>Standards are national in scope and DWGI markets walnuts under the Agricultural Marketing Agreement Act of 1937, as amended, with administration by the Walnut Marketing Board in Sacramento. DWGI's involvement with other governmental agencies includes the Department of Agriculture, Fruit and Vegetable Division, Food and Drug Administration, State Food and Drug Administration, Economic Research Service, Foreign Agricultural Service, and the Department of Commerce.</p> <p>Standards promoted through 88 domestic and 33 foreign brokers.</p>
Availability	Distributed directly.
Formerly	California Walnut Growers' Association (1956)
Keywords	walnuts; edible nuts; agriculture; food;

DIAMOND WHEEL MANUFACTURERS INSTITUTE

J. J. Wherry, Manager

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010                      FAX: (216) 892-1404

Founded: 1963                      Standards Staff: 3

Type of Organization              Trade Association.  
Standards Developer.

Standards Development              4 active standards.  
ANSI approved.

Standards Designation              ANSI B74.x.

Scope                      Manufacturers of grinding wheels and blades in which diamonds are used as the abrasive.

Standardization Activities              The Standards and Safety Committee has developed standards for shapes and sizes of diamond grinding wheels and hand hones, size and density of diamond abrasive grain, and an identification code for diamond wheel shapes. These have been processed through ANSI. Also cooperates with ISO/TC 29/WG 5 on international standards.

Availability                      Directly and through ANSI.

Keywords                      grinding wheels; diamond abrasives; manufacturing;

DISTILLED SPIRITS COUNCIL OF THE UNITED STATES

F. A. Meister, President/CEO

1250 Eye Street, NW  
Washington, DC 20005  
(202) 628-3544                      FAX: (202) 682-8888

Founded: 1973

Type of Organization              Trade Association.  
Works through other organizations to develop standards.

Scope                      The Distilled Spirits Council of the United States represents producers and marketers of distilled spirits in the United States. Its primary mission is to advance the interests of the industry, while educating



the general public about the distilled spirits industry's economic, public policy and cultural contributions.

<b>Standardization Activities</b>	Through its standing committees of technical experts from member companies, develops recommended guidelines pertinent to the industry. Initiates studies, as needs are foreseen or dictated by developments in the regulatory and/or private sectors. Cooperates with federal agencies and other groups. Projects include plant fire protection recommendations and metric size standards, both domestic and international.
<b>Formerly</b>	Distilled Spirits Institute The Bourbon Institute Licensed Beverage Industries
<b>Keywords</b>	alcoholic beverages; distilled spirits; metric; fire protection;

#### DOOR AND HARDWARE INSTITUTE

Gerald S. Heppes, CAE, Executive Director

14170 Newbrook Drive  
Suite 200  
Chantilly, Virginia 22021-2223  
(703) 222-2010 FAX: (703) 222-2410  
Founded: 1934 Standards Staff: 2

<b>Type of Organization</b>	Trade Association. Standards Developer.
<b>Standards Development</b>	22 active standards. Standards processed through ANSI. Draft standards available for review. Invitation to review announced through ANSI.
<b>Government Adoption</b>	"A115" Series for steel and wood doors has been adopted by the Department of Veterans Affairs, GSA, and DoD.
<b>Scope</b>	Wholesalers and specifiers distributing doors and builders' hardware to architects, contractors, and builders. Conducts management and technical courses and statistical surveys. Sponsors technical research and establishes standards.
<b>Standardization Activities</b>	Formulates standard specifications for preparation of standard steel doors and frames for builders' hardware. Works closely with BHMA, NAAMM, ISDSI, NWWDA and SDI in developing standards. Solicits technical input from all affected interests, including government and industry organizations.

**Availability** Distributed directly and through ANSI.

**Formerly** National Builders Hardware Association

**Keywords** doors; architectural hardware; building;

#### DOOR OPERATOR AND REMOTE CONTROLS MANUFACTURERS ASSOCIATION

John H. Addington, Executive Director

1300 Sumner Avenue  
Cleveland, Ohio 44115-2851  
(216) 241-7333

FAX: (216) 241-0105

Founded: 1959

Standards Staff: 3

**Type of Organization** Trade Association.  
Works through other organizations to develop standards.

**Scope** A national trade association comprised of manufacturers of vehicular door operators -- residential, commercial, or industrial -- and/or remote controls for the operation.

**Standardization Activities** Maintains a technical committee which developed a Minimum Standard for Heavy Duty Industrial and Commercial Draw Bar Type Electrically Powered Door Operators. It no longer develops standards but cooperates with Underwriters Laboratories in its development of UL 325, Standard for Safety for Door, Drapery, Gate, and Window Operators and Systems. Also cooperates with the Federal Communications Commission regarding the rules and equipment authorization procedures for radio frequency devices. Cooperates with the Consumer Products Safety Commission and the National Safety Council on the safe use of the equipment.

**Keywords** doors; remote control; hardware; buildings;

#### DUCTILE IRON PIPE RESEARCH ASSOCIATION

Troy F. Stroud, P.E., President

245 Riverchase Parkway East  
Suite 0  
Birmingham, Alabama 35244  
(205) 988-9870

FAX: (205) 988-9822

Founded: 1915

Type of Organization	Trade Association. Works through other organizations to develop standards.
Representation	Four members active in voluntary standards including representatives on standards committees of ANSI, ASTM, AWWA, ASME, NFPA, and others.
Scope	American manufacturers of ductile iron pipe, dedicated to maintaining the highest piping standards through a program of continuing research. Ductile iron pipe is used extensively for water and wastewater applications.
Standardization Activities	Participates in national committees that develop product standards pertaining to ductile iron pipe, including standards for manufacture, design, installation, joints, coatings, linings, fittings, and other appurtenances. Utilities and consulting engineers frequently incorporate these standards in purchase orders and contract specifications. Members also provide standards committees with research and test data concerning their products.
Formerly	Cast Iron Pipe Publicity Bureau (late-1920's) Cast Iron Pipe Research Association (1979)
Keywords	pipe; fittings; water; wastewater; plumbing; sanitation; industrial equipment;

#### EDISON ELECTRIC INSTITUTE

Garry N. Miller, Manager, Standards and Technical Support

701 Pennsylvania Avenue NW.

Washington, DC 20004-2608

(202) 508-5173

FAX: (202) 508-5225

e-mail: garrymee@eei.com

Founded: 1933

Standards Staff: 2

Type of Organization	Trade Association. Work through other organizations.
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Representation	EEI member companies participate in standards development through more than 300 representatives serving on more than 100 standards committees of ANSI, IEEE, ASME, NIST, NEMA, NFPA, ASTM, and others. These standards committees develop over 500 standards of interest to electric utilities.
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## Scope

Edison Electric Institute is the association of the United States investor-owned electric utilities and industry affiliates worldwide. Its U.S. members generate approximately 79 percent of all the electricity in the country and service 76 percent of all ultimate customers in the nation. EEI provides the principal forum where electric utility people exchange information on developments in their business and maintain liaison between the industry and the federal government. Its officers speak on issues of national interest on behalf of the electric utility industry.

## Standardization Activities

Standards participation activities are directed towards increasing use of cost-effective programs and innovative techniques in standards to maximize the effectiveness of its representatives serving on national and international standards committees.

Electric utility companies make extensive use of standards and actively participate in committees developing applicable standards. These include standards for electric power generation, transmission and distribution equipment, such as boilers, all types of turbines, transformers, circuit breakers, and valves; all aspects of radiation measurement and protection; standards for safety and health, air and water quality, computers; fire protection; and many others.

Although the Institute is not a standards developing organization, it works within the voluntary standards system to coordinate electric utility industry standards activities and act as the industry voice. The EEI Policy Committee on Energy Resources has overall responsibility for directing all EEI activities relating to codes and standards. It recommends policy to the EEI Board in regard to participation in standards development work within the voluntary consensus organizations and coordination with government agencies which develop or reference standards in the regulatory process.

The Standards Coordinating Task Force coordinates high priority standards activities of interest to the industry and provides relevant information to member companies through a formal program which interfaces directly with standards developing organizations. It also monitors and coordinates participation in the development of metrication programs within the electric utility industry.

In addition, each EEI Technical Committee, Generation, Transmission and Distribution, is responsible for monitoring the work of standards developing committees in their subject area. The EEI Technical Committees accomplish this through their Codes and Standards Subcommittees which, in cooperation with the Association of Edison Illuminating Companies, advise the Electric Light and Power representatives on standards committees of the industry's position on proposed new or revised standards.

**Keywords** energy; electric power; electrical equipment; metric;

**ELASTIC FABRIC MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION**

Karl Spilhaus, President

230 Congress Street  
Boston, Massachusetts 02110  
(617) 542-8220

FAX: (617) 542-2199

Founded: 1953

Standards Staff: 1

**Type of  
Organization**

Trade Association.  
Standards Developer.

**Standards  
Designation**

NTA-EC prefix.

**Scope**

Represents the elastic fabrics industry of the United States.  
Became part of Northern Textile Association in 1970.

**Standardization  
Activities**

Actively engaged in the establishment, review, revision, and promulgation of standard test methods, performance standards, and specifications for standard types of knitted, woven and braided elastic fabrics and non-elastic braided trimmings. Current standards include: Woven Waistband Elastic Minimum Performance Standard/A Performance Standard for Webbing Used in Men's and Boys' Underwear and Pajamas; Methods of Testing Wide Elastic Fabrics-Tension and Stretch, NTA-EC-1-71.

In addition to counseling engineering societies, such as the American Society for Testing and Materials and federal agencies, the EFMC's Technical Committee is a source for interlaboratory testing and test methods, review of product characteristics, and the development of suggested tolerances and specifications.

**Availability**

Distributed directly.

**Formerly**

Elastic Fabric Manufacturers Institute (1970)

**Keywords**

textiles; fabrics; braids; trim; webbing; elastic;



**ELECTRICAL APPARATUS SERVICE ASSOCIATION**

Bruce J. Benes, Executive Vice President

1331 Baur Boulevard  
St. Louis, Missouri 63132  
(314) 993-2220

FAX: (314) 993-1269

Founded: 1933

Standards Staff: 2

Type of  
Organization

Trade Association.  
Standards Developer.

Scope

An international trade association of companies that sell, service, and repair industrial electric motors, generators, transformers, controls, and similar electro-mechanical equipment. Over 2700 members worldwide.

Standardization  
Activities

Develops standards and limited warranties for the electrical apparatus sales and service industry that cover the mechanical and electrical aspects of repair, rebuilding, and testing electro-mechanical equipment. This includes single and polyphase AC induction motors, DC motors and generators, transformers (liquid and dry types), hermetic motors, and hand power tools. Also defines the condition of electrical equipment for sale, and has written standard warranties for each condition specified. Developed set of electrical safety standards.

Availability

Distributed directly.

Formerly

National Industrial Service Association (1960)

Keywords

electrical equipment; electric motors; generators; machinery;

**ELECTRICAL GENERATING SYSTEMS ASSOCIATION**

David L. Kellough, Executive Director

10251 West Sample Road  
Suite B  
Coral Springs, Florida 33065  
(305) 755-2677  
Founded: 1965

FAX: (305) 755-2679  
Standards Staff: 1

Type of  
Organization

Trade Association.  
Standards Developer.

Scope	An international industry organization representing manufacturers and distributors involved with the generation, transmission, storage, and control of electrical energy not directly supplied by the public utility companies.
Standardization Activities	Maintains a cooperative standards program for developing and promulgating standards and specifications to serve the industry and its customers; provides an effective liaison between the industry and its customers, both civilian and military, for the interchange of information and ideas; and assists its customers in obtaining the most advanced and reliable products from the industry.
Availability	Distributed directly.
Formerly	Engine Generator Set Manufacturers Association (1971) Electrical Generating Systems Marketing Association
Keywords	electrical generators; electrical power; energy; electrical equipment;

#### ELECTRONIC INDUSTRIES ASSOCIATION

Dan Bart, Vice President, Standards and Technology

2500 Wilson Boulevard  
Suite 400  
Arlington, Virginia 22201  
(703) 907-7703  
e-mail: dbart@tia.eia.org  
WWW: <http://www.eia.org>

FAX: (703) 907-7501

Founded: 1924

Standards Staff: 14

Type of  
Organization

Trade Association.  
Standards Developer.

Standards  
Development

Has developed standards since 1926, and became ANSI accredited in 1988. The Engineering Department provides the home for over 200 EIA Engineering Committees and Subcommittees that develop EIA and JEDEC standards and other technical publications. Over 5000 technical personnel from member companies participate in standards activities through committees, subcommittees and task groups.

Standards  
Designation

EIA prefixes such as ANSI/EIA, EIA, EIA/IS, QC, PQC, or JEDEC prefixes such as JESD, and JEP.

<b>Government Adoption</b>	The Department of Defense adopts EIA Standards applicable to their needs.
<b>Certification</b>	EIA is the National Standards Organization which is responsible for the International Electrotechnical Commissions's IECQ certification system within the United States.
<b>Secretariats</b>	IEC TC 46 (Cables, Wires, Waveguides, R.F. Connectors, and Accessories for Communication and Signaling). IEC SC 46B (Waveguides and Accessories). IEC SC 46D (Connectors for R.F. Cables). IEC TC 47 (Semiconductor Devices). IEC SC 47D (Mechanical Standardization of Semiconductor Devices). IEC TC 48 (Electromechanical Components and Mechanical Structures for Electric Equipment). IEC SC 48B (Connectors, L.F.). IEC TC 76 (Laser Equipment). IEC TC 86 (Fibre Optics). IEC SC 86C (Fibre Optic Systems Specifications).
<b>Scope</b>	A national trade association of companies involved in the manufacture of electronic components, equipment, and systems for consumer, industrial, and government applications. They represent their members in national and international standards arena.
<b>Standardization Activities</b>	Involved in standardizing components, such as resistors, capacitors, switches, transformers, inductors, transistors, integrated circuits, television tubes, broadcast equipment, data transmission, numerical control, printed circuits, radios, phonographs, satellite communications, and tape systems. Processes standards through ANSI and the IEC. Standards are in use throughout the world either by direct application or by adoption as an international standard. Engineering standards are designed to eliminate misunderstanding between manufacturers and purchasers, facilitate interchangeability and improvement of products, and assist the purchaser in selecting and obtaining with minimum delay the proper product for his particular need.
<b>Availability</b>	Distributed through IHS, Global Engineering Documents and ANSI.
<b>Formerly</b>	Radio Manufacturers Association (1958) Radio-Electronics-Television Manufacturers Association (1957) Absorbed: Magnetic Recording Industry Association
<b>Keywords</b>	electronics; industrial equipment; electrical equipment; defense; consumer products; data processing;

## ELECTRONIC MEDIA RATING COUNCIL

Melvin A. Goldberg, Executive Director

509 Madison Avenue  
New York, New York 10022  
(212) 754-3343

Founded: 1963

Standards Staff: 1

### Type of Organization

Trade Association.  
Standards Developer.

### Scope

The Electronic Media Rating Council is responsible for determining criteria and standards for audience measurement services; establishing and administering a system of accreditation for audience measurement services; providing and administering an audit system designed to insure users that audience measurements are conducted in conformance with the criteria, standards and procedures developed.

### Standardization Activities

The Rating Council is composed of representatives from TV and radio networks, broadcast groups and industry associations representing cable, radio, television, advertising agencies and advertisers. The Council sets the minimum standards which rating services are expected to meet to merit accreditation. The standards involve such items as ethical and operational standards (governing the quality and integrity of the entire activity) and disclosure standards (specifying the detailed information about a rating service which must be made available to users, as well as the form in which the information should be made available).

### Formerly

Broadcast Rating Council (1982)

### Keywords

audience measurement; ratings; radio; television; cable; audit; accreditation; communications;

## ELECTROSTATIC DISCHARGE ASSOCIATION

Ann Razzano-Stedman, Office Manager

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Suite 4  
Rome, New York 13440-2069  
(315) 339-6937

FAX: (315) 339-6793

Founded: 1982

Standards Staff: 1

<b>Type of Organization</b>	Professional Society. Standards Developer.
<b>Standards Designation</b>	Published documents are designated ANSI/ESD or ESD. (Prior to January 1, 1993, the Association was known as the Electrical Overstress/Electrostatic Discharge Association and used the acronym EOS/ESD. Documents published and printed prior to that used the EOS/ESD acronym where the ESD acronym is now used.)
<b>Government Adoption</b>	Documents are submitted for adoption to the Department of Defense (DoD).
<b>Certification</b>	Certification of ESD technicians and ESD professionals is done using qualifications standards designated by the ESD Association. Program is administered through NARTE.
<b>Secretariats</b>	U.S. TAG to IEC 15D, Electrostatics.
<b>Scope</b>	The design, hardening and prevention aspects of electrical over-stress. This especially includes the phenomena of electrostatic discharge and its control as applicable in design, manufacturing and end use. Emphasis shall be placed upon design requirements, evaluation and test procedures and standardization of these practices.
<b>Standardization Activities</b>	ESD Association standards committee collects data, evaluates proposed test methods, drafts and publishes documents to meet the technical needs of the electronic industry. These documents are published as draft standards, standards and advisories.  Areas covered include FAB manufacturing, chip design, PCB manufacturing, handling of sensitive devices, measurement of static control devices, packaging of devices and definitions for terms and phrases.
<b>Availability</b>	Distributed directly and through ANSI.
<b>Formerly</b>	Electrical Overstress/Electrostatic Discharge Association (1993)
<b>Keywords</b>	electrical overstress; electrostatic discharge; ESD; EOS; static;



## THE ENGINEERED WOOD ASSOCIATION

William A. Baker, Manager, Market Support Services

P.O. Box 11700

Tacoma, Washington, 98411

(206) 565-6600

FAX: (206) 565-7265

Founded: 1933

Standards Staff: 5

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Development

Eleven active standards.  
None processed through ANSI.  
Draft standards available for review by members and others at discretion of EWA.

### Government Adoption

PS 1 and PS 2 adopted by all government agencies.  
Other EWA standards recognized by most federal, state and local jurisdictions.

### Secretariats

Secretariat for NIST Industry Standards Committee which was organized to review and keep current Voluntary Product Standards PS 1 and PS 2.

### Scope

A nonprofit industry trade association engaged in advertising, promotion, quality testing and inspection, product and applied research, and codes and standards activities. Membership consists of mills involved in the manufacture of plywood and other structural-use panels, glued-laminated timber, I-joists, and of structural composite lumber.

### Standardization Activities

EWA standardization activities are administered by the Technical Services Division and encompass engineering design, manufacture, and application of engineered wood products produced by its members. Standards are submitted for reference and adoption in building codes and other construction standards. Leader in the development of performance criteria for qualification of structural panels in accordance with their end use, which are incorporated into performance standards and policies.

Cooperates with the Department of Commerce, National Institute of Standards and Technology; the Department of Housing and Urban Development, Federal Housing Administration; Department of Transportation; Department of Defense; National Institute of Building Sciences; and the General Services Administration. Also participates on committees of the American Society for Testing and Materials.

Active member of ISO/TC 89-Wood Backed Panels and TC 165-Timber Structures. Participates in the International Union of Testing and Research Laboratories for Materials and Structures, and in the International Council for Building Research Studies and Documentation, Working Commission CIB/W18 - Timber Structures.

**Availability** Sold directly.

**Formerly** Douglas Fir Plywood Association; American Plywood Association (1964)

**Keywords** plywood; structural panels; sheathing; siding; building; construction; wood products; structural composite lumber; glulam; I-joists;

#### ENTOMOLOGICAL SOCIETY OF AMERICA

Raymond L. Everngam, Jr., Managing Editor

9301 Annapolis Road  
Lanham, Maryland 20706-3115  
(301) 731-4535 FAX: (301) 731-4538  
e-mail: info@entsoc.org

Founded: 1889 Standards Staff: 1

**Type of Organization** Scientific Society.  
Standards Developer.

**Standards Designation** Approved Common Names of Insects.

**Scope** Professional society of entomologists and others interested in the study and control of insects. Maintains specialized education, placement service, and research programs. Compiles statistics.

**Standardization Activities** Committees work to standardize and define common and scientific names of insects and related arthropods, as well as insecticide names.

**Availability** Distributed directly.

**Keywords** insects; entomology; insecticides; pesticides; public health; materials;

## ENVIRONMENTAL INDUSTRY ASSOCIATIONS

John A. Legler, Executive Vice President

4301 Connecticut Avenue, NW  
Suite 300  
Washington, DC 20008  
(202) 244-4700

FAX: (202) 966-4824

Standards Staff: 3

Type of Organization	Trade Association. Standards Developer.
Standards Designation	ANSI Z245.x.
Secretariats	ANSI Accredited Standards Committee Z245 on Refuse Processing, Collection and Disposal.
Scope	2000 companies involved in solid and hazardous waste management and suppliers of waste equipment.
Standardization Activities	Develops safety standards primarily associated with the solid waste management industry. Includes procedures for the manufacturing, installation, and operation of equipment and facilities. Standards Committee includes manufacturers, distributors, end-users or operators, government regulation and/or enforcement agencies, and special purpose or trade associations.
Availability	Distributed through ANSI, and WASTEC.
Formerly	Corporate reorganization in 1993 National Solid Wastes Management Association and Waste Equipment Manufacturers Institute
Keywords	solid waste; refuse; public health; sanitation; industrial equipment; recycling; resource recovery;

## EQUIPMENT AND TOOL INSTITUTE

Donn R. Proven, Executive Manager

1806 Johns Drive  
Glenview, Illinois 60025  
(708) 729-8550  
Founded: 1947

FAX: (708) 729-3670  
Standards Staff: 2

Type of Organization	Trade Association. Standards Developer.
Scope	Manufacturers of automotive service equipment and tools.
Standardization Activities	Prepares test equipment performance guidelines. Maintains the Performance Test Group which communicates with vehicle manufacturers to insure equipment compatibility and with federal and state agencies to insure equipment complies with performance regulations. Publishes guidelines which provide performance criteria that can be used to characterize service equipment as being of a professional grade for the automotive technician. Equipment includes voltmeters, ohmmeters, brake testing equipment, wheel alignment, headlamp testers, timing devices, gauges, exhaust emission analyzers, and others.
Availability	Distributed directly.
Keywords	automotive equipment; instruments;

#### EQUIPMENT MANUFACTURERS INSTITUTE

John Crowley, Director of Engineering Programs

10 Riverside Plaza  
Suite 1220  
Chicago, Illinois 60606-3710  
(312) 321-1470 FAX: (312) 321-1480  
e-mail: AEA-EMI@ix.netcom.com

Founded: 1893

Type of Organization	Trade Association. Works through other organizations to develop standards.
Representation	ASAE, SAE, ANSI.
Scope	Provides an ongoing forum for manufacturers of farm construction and industrial equipment to work together in order to have an effective voice in decisions affecting their products, their companies, their industries, and the economic well-being of their customers.
Standardization Activities	EMI is not a standards development organization. Committees of the Institute utilize industry expertise to develop proposals which are submitted to engineering standards organizations for consideration as possible voluntary standards. Almost all EMI standards proposals are submitted to the American Society of Agricultural Engineers, the Society of Automotive Engineers,

and (indirectly) to the American National Standards Institute and the International Organization for Standardization.

**Formerly** National Association of Agricultural Implement and Vehicle Manufacturers  
National Association of Farm Equipment Manufacturers (1933)  
Farm Equipment Institute (1965)  
Farm and Industrial Equipment Institute (1990)

**Keywords** farm equipment; agricultural equipment; industrial equipment; construction equipment; agriculture; construction;

#### **EXPANDED SHALE, CLAY AND SLATE INSTITUTE**

John P. Ries, Managing Director

Post Office Box 21526  
Salt Lake City, Utah 84121  
(801) 272-7070 FAX: (801) 272-3377

Founded: 1952 Standards Staff: 2

**Type of Organization** Trade Association.  
Standards Developer.

**Scope** The Expanded Shale, Clay and Slate Institute (ESCSI) is the international trade association for manufacturers of rotary kiln produced expanded shale, clay, and slate lightweight aggregate.

ESCSI promotes the extensive use of rotary kiln produced lightweight aggregate in the concrete masonry, ready-mix and precast markets. Based on research and development, educational material is disseminated to all phases of the building industry. The association works closely with other technical organizations to maintain product quality, life-safety, and professional integrity throughout the construction industry and related building code bodies.

**Standardization Activities** Active in ASTM, ACI, CSI, and ASCE in promulgating building codes, test methods, recommended practices, specifications, and standards for structural lightweight concrete, lightweight concrete masonry, and/or lightweight aggregates.

Publishes Guide Specifications for Structural Lightweight Concrete. Members' products meet requirements of Standard Specification for Lightweight Aggregates for Structural Concrete, ASTM C330.



**Availability** Distributed directly or through members.

**Formerly** Expanded Shale Institute (1952)

**Keywords** concrete; masonry; aggregates; construction; materials;

#### EXPANSION JOINT MANUFACTURERS ASSOCIATION

Richard C. Byrne, Secretary

25 North Broadway  
Tarrytown, New York 10591  
(914) 332-0040 FAX: (914) 332-1541  
Founded: 1955 Standards Staff: 1

**Type of Organization** Trade Association.  
Standards Developer.

**Scope** Manufacturers of joints for piping systems. Fosters and studies the problems peculiar to expansion joints.

**Standardization Activities** Through its Technical Committee, engages in the improvement of standards which were developed in the interest of public safety and for guidance in design and determination of service capacities and quality of bellows expansion joints.

**Keywords** expansion joints; industrial equipment;

#### FACTORY MUTUAL RESEARCH CORPORATION

Carl E. Miller, Senior Vice President and  
Chief Operating Officer

1151 Boston-Providence Turnpike  
Post Office Box 9102  
Norwood, Massachusetts 02062  
(617) 762-4300 FAX: (617) 762-9375

Founded: 1835 Standards Staff: 190

**Type of Organization** Product Test and Certification Laboratory.  
Standards Developer.

Representation	FMRC engineers participate in standards committees of the NFPA, ASME, ASTM, AWWA, IEEE, ISA, ANSI, ISO, and IEC.
Standards Designation	Data Sheets, Loss Prevention Data, D.S. prefix Approval Standards.
Government Adoption	Certain FMRC standards are referenced in codes and regulations of various local, state, and federal agencies. OSHA has designated FMRC as a test agency for certain types of equipment requiring approval.
Certification	Operates an approval service for a wide range of fire protection and property loss control products; registers quality systems for compliance with the ISO 9000 Series of quality standards. In addition, the approvals staff evaluates products to certify that they meet certain standards of other organizations (e.g., ASTM).
Scope	A nonprofit corporation, providing loss control standards development, basic research, applied research, and full-scale testing primarily for industrial, commercial, and institutional policyholders insured by Allendale Mutual, Arkwright, and Protection Mutual. Maintains full-scale testing laboratories and modeling techniques.
Standardization Activities	<p>Prepares loss prevention data sheets based on staff studies of industrial processes and hazards, loss experience, test work, and research by FMRC scientists and engineers, property inspections by field engineers and input from industry, professional and trade associations, and other sources. Subject matter includes building design and materials, fire protection equipment and systems, heating and electrical equipment, pressure vessels and boilers, hazardous materials and processes, and mechanical equipment. These sheets provide recommended guidelines for the protection of industrial, commercial, and institutional properties against fire, explosions, wind, boiler and machinery accidents, and other insured perils.</p> <p>Provides Approval Standards covering various types of fire protection equipment, flammable liquid equipment, fuel and combustion controls, boiler combustion safeguards, industrial trucks, electrical equipment, fire and burglar alarm systems and services, building material assemblies, and products. These specify requirements for approval and listing of equipment, materials, and services intended for loss control purposes and for potential hazards. An approval process includes inspection and audit of the product manufacturer's production and quality control facilities, with periodic follow-up. Approved products are typically labeled as "Factory Mutual Approved" or "FM Approved."</p>

**Availability** Data sheets and standards distributed directly.

**Keywords** fire protection; boilers; combustion; alarm systems; safety; hazards; electrical equipment; industrial equipment; insurance;

**FACTS INSTITUTE FOR RESEARCH, STANDARDS AND TERMINOLOGY**

Donald C. Pierce, Director

95 Mitchell Blvd.  
San Rafael, California 94903  
(415) 472-0800 FAX: (415) 472-2841

Founded: 1995 Standards Staff: 1

**Type of Organization** Standards Developing Organization.

**Standards Development** First standard developed in 1995; approximately 40 volunteer committee members; 1 active standard document.

**Scope** A not-for-profit organization dedicated to the professional and scientific advancement of the arts. Committees develop, fund and manage projects which advance the general knowledge and further application of the sciences in art. The purpose of research, consensus standards, and terminology is to further industry education and to better serve the public in all areas of the arts.

**Standardization Activities** The picture framing committee, established in 1995, is comprised of 40 members representing both manufacturing and retail interests. Its initial standard defines matboard and glazing terminology used in the picture framing industry. Additional standards are under development.

**Availability** Decor Magazine, 330 N. Fourth St., St. Louis, MO 63102; Larson-Juhl, 3900 Steve Reynolds Blvd., Norcross, GA 30093; PFM PubCo., 225 Gordon's Corner Plaza, Manalapan, NJ 07726.

**Keywords** picture framing; matboard; glazing; glass; acrylic sheet;

## FELT MANUFACTURERS COUNCIL OF NORTHERN TEXTILE ASSOCIATION

Karl Spilhaus, President

230 Congress Street  
Boston, Massachusetts 02110  
(617) 542-8220

FAX: (617) 542-2199

Founded: 1915

Standards Staff: 1

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Designation

FS14-68/71.

### Scope

Represents over 80 percent of the pressed felt industry of the United States. Part of Northern Textile Association since 1961.

### Standardization Activities

Actively engaged in the establishment, review, revision, and promulgation of physical and chemical specification requirements for standard types of wool felt in both roll and sheet form. The currently active specification is Wool Felt Standard Specification, FS14-68/71.

In addition to counseling federal agencies and engineering societies, such as the American Society for Testing and Materials and Society of Automotive Engineers, on their wool felt specifications, provides new technical information and papers covering additional wool felt performance characteristics which have not yet reached specification requirement status.

### Availability

Distributed directly.

### Formerly

Felt Association of New York City

### Keywords

felt; textiles; materials;

## FIBRE BOX ASSOCIATION

Bruce Benson, President

2850 Golf Road  
Rolling Meadows, Illinois 60008  
(708) 364-9600  
Founded: 1940

FAX: (708) 364-9639  
Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
Scope	A nonprofit trade association representing manufacturers of corrugated and solid fibreboard. Aims to promote the industry's general welfare; to represent members before appropriate government, transportation, industrial, or other agencies; to compile and disseminate statistical information; and to develop data useful to its members in marketing their products.
Standardization Activities	Holds membership in the International Corrugated Case Association and participates in pertinent activities of the American National Standards Institute and the International Organization for Standardization. Advises federal government bodies preparing standards and specifications involving corrugated and solid fibreboard, particularly the General Services Administration.  In conjunction with the Packaging Machinery Manufacturers' Institute, it has issued five joint voluntary standards and one recommended practices bulletin, referenced in the FBA Handbook.
Availability	Distributed directly.
Keywords	cardboard; box; corrugated board; fiberboard; packaging;

#### **FINANCIAL ACCOUNTING FOUNDATION**

	Joseph S. LaGambina, Executive Vice President
	401 Merrit Post Office Box 5116 Norwalk, Connecticut 06856-5116 (203) 847-0700 FAX: (203) 849-9714
	Founded: 1973
Type of Organization	Standards Developer.
Standards Designation	FASB Statement. GASB Statement.
Government Adoption	Securities and Exchange Commission (for the FASB). Rules of Conduct of American Institute of CPAs. Various state laws (for the GASB).



Scope	Independent, nonprofit organization. Sponsored jointly by American Institute of CPAs, Financial Executives Institute, Association of Investment Management and Research, Institute of Management Accountants, American Accounting Association, Securities Industry Association, Government Finance Officers Association, National Association of State Auditors, Comptrollers and Treasurers. Issues statements, interpretations, technical bulletins, concepts statements; follows "due process" procedures that include use of task forces of experts, issuance of papers, public hearings, release of exposure drafts.
Standardization Activities	Develops standards for accounting and financial reporting that govern the general purpose financial reports published by business corporations, state and local government entities, and other organizations. These standards form the base of "generally accepted accounting principles."
	Follows due process procedures designed to ensure broad public participation at each stage in the standard setting process. Board meetings and deliberations are open for public observation.
	Has Advisory Councils to advise on agenda projects, priorities, and technical solutions to accounting issues.
Availability	Distributed by the Financial Accounting Foundation.
Formerly	Financial Accounting Standards Board
Keywords	accounting; financial reporting;

#### FLEXIBLE PACKAGING ASSOCIATION

Mark G. Wygonik, Director of Technology and Regulatory Affairs

1090 Vermont Avenue, NW.

Suite 500

Washington, DC 20005

(202) 842-3880

Founded: 1950

FAX: (202) 842-3841

Standards Staff: 3

Type of Organization	Trade Association. Standards Developer.
Standards Development	Developer of voluntary guidelines for flexible packaging materials. 32 active standards for cellophane, polyethylene, polyester, and laminated and coated products, sterile medical packaging, and test methods.

<b>Scope</b>	Represents converters of packaging materials and suppliers of film, adhesives, printing inks, and converting machinery. Services include government relations, technical information, statistical information, educational and public relations, and membership.
<b>Standardization Activities</b>	Continuous review of industry's need for voluntary regulations. Specifications often serve as the basis for agreement between a converter or supplier and their customers (end-users). Specifications recognized as equal to those of ASTM (American Society for Testing and Materials) and TAPPI (Technical Association of the Pulp and Paper Industry). Works toward eliminating duplication of effort by other standards organizations, although some overlap is required.
<b>Availability</b>	Sold directly.
<b>Formerly</b>	National Flexible Packaging Association
<b>Keywords</b>	packaging; plastic film; cellophane; polyethylene; printing; polyester; laminating; bags; aseptic packaging; medical packaging;

#### FLIGHT SAFETY FOUNDATION

<b>Type of Organization</b>	<p>Stuart Matthews, President and CEO</p> <p>601 Madison Street Suite 300 Alexandria, Virginia 22314 (703) 522-8300                      FAX: (703) 525-6047 Founded: 1945</p>
<b>Scope</b>	Nonprofit Foundation for safety information exchange. Works with other organizations to develop standards.
<b>Standardization Activities</b>	Fosters the exchange of safety ideas and information to enable government and industry worldwide to continually upgrade safety standards and practices.
<b>Keywords</b>	Acts through consultation, committee participation, publications, workshops, and regional and international seminars.
<b>Keywords</b>	flight safety; safety; aviation; transportation;

## FLUID CONTROLS INSTITUTE

Chris Johnson, Executive Secretary

1300 Sumner Avenue  
Cleveland, Ohio 44115  
(216) 241-7333  
Founded: 1921

FAX: (216) 241-0105  
Standards Staff: 3

Type of Organization	Trade Association. Standards Developer.
Standards Development	Standards developer since 1955. 100 member companies participate in standards development through product sections. 18 published standards. 4 processed through ANSI.
Standards Designation	FCI or ANSI/FCI prefixes.
Certification	No certification, qualification, or accreditation programs.
Scope	A nonprofit association of manufacturers of devices for fluid control and fluid conditioning. Includes pressure, temperature, and volumetric regulators; modulating service control valves; solenoid valves; steam traps; fluid clarification equipment such as strainers, separators and filters; silent check valves; pressure and temperature gauges; process control switches and related equipment.
Standardization Activities	Develops, promotes, and adopts standards. Holds membership in the American National Standards Institute; maintains liaison with International Organization for Standardization and the International Electro-technical Commission. Works with Instrument Society of America, National Fluid Power Association, and Scientific Apparatus Manufacturers Association on domestic standards.
Availability	Distributed directly and through ANSI.
Formerly	National Association of Steam and Fluid Specialty Manufacturers (1941) National Steam Specialty Club (1956)
Keywords	gauges; regulators; valves; fluid controls; instruments; industrial equipment;

**FLUID SEALING ASSOCIATION**

	Robert H. Ecker, Executive Director
	2017 Walnut Street Philadelphia, Pennsylvania 19103 (215) 569-3650                      FAX: (215) 569-1410 Founded: 1933                      Standards Staff: 3
Type of Organization	Trade Association Standards Developer
Representation	Works through ASTM, NAVSEA and U.S. Coast Guard to develop standards.
Standards Development	FSA has been developing handbooks for at least 20 years, but has only (in the past 10 years) developed its own standards. None have been submitted to ANSI. Currently has 5 active standards defining test methods for sealant materials, measurement, and gasket performance.
Government Adoption	Currently 4 standards are referenced by federal agencies.
Certification	FSA does not certify or accredit.
Scope	FSA is an international trade association. Members are involved in the production and marketing of virtually every kind of fluid sealing device in the world. Publishes handbooks and technical data on many aspects of fluid sealing and collect; analyzes and disseminates information about trends in business, markets, materials, technology, government regulations and trade which may affect our membership. Current membership is 82 companies.
Formerly	Changed name from Mechanical Packing Association (1970)
Keywords	gaskets; packing; expansion joints; mechanical seals; molded packing;

**FOOD PROCESSING MACHINERY AND SUPPLIES ASSOCIATION**

George Melnykovich, Ph.D., President

200 Daingerfield Road  
Alexandria, Virginia 22314  
(703) 684-1080                      FAX: (703) 548-6563  
Founded: 1885

Type of Organization	Trade Association. Works through other organizations to develop standards.
Scope	Firms manufacturing machinery and providing services and supplies for the canning, freezing, and food processing industry.
Standardization Activities	A Technical and Sanitation Committee is responsible for the administration of standards related activities (in cooperation with associations dealing with the establishment of standards) for materials used in the production, preparation, processing, and packaging of foods and other products which are packaged in glass, metal, fibre, and/or plastic. Cooperates with the National Food Processors Association and the Can Manufacturers' Institute in the standardization of sizes of tin cans and with the Glass Container Association of America in developing standard sizes of glass containers.
Formerly	Canning Machinery and Supplies Association
Keywords	canning; food processing; packaging;

#### FORGING INDUSTRY ASSOCIATION

Karen Lewis Taylor, Director of Membership Development

25 Prospect Avenue West  
Suite 300  
Cleveland, Ohio 44115  
(216) 781-6260

FAX: (216) 781-0102

Founded: 1913

Standards Staff: 2

Type of Organization	Trade Association. Works with others to develop standards.
Standards Development	Four guidelines on allowances and tolerances for forgings and rolled rings.
Representation	Members represent FIA on standards committees of ANSI, ASME, NFPA, and others.
Scope	A nonprofit corporation composed of North American producers of forgings and producers of raw materials, equipment, or services commonly used in the forging industry.
Standardization Activities	Works within the voluntary standards system to coordinate forging industry safety and product standards and acts as the industry voice. Represents the industry to standards developing organizations such as ANSI, ASME, and NFPA. FIA is also represented by members on American National Standards Committees.



Publishes Guidelines for Tolerances for Hot Forged Impression Die Forgings; Hammer, Press and Upsetter; Tolerances for Precision Aluminum Forgings; and Allowances and Tolerances for Seamless Rolled Rings.

**Formerly**

American Drop Forging Association (1935)  
Drop Forging Association (1965)  
Open Die Forging Institute Absorbed (1982)  
Canadian Forging Association Absorbed (1983)

**Keywords**

forging; rolled rings; machinery; materials;

**FRICTION MATERIALS STANDARDS INSTITUTE**

Gilbert N. Laycock, Executive Director

588 Monroe Turnpike  
Monroe, Connecticut 06468-2363  
(203) 452-1877 FAX: (203) 452-7951  
Founded: 1948 Standards Staff: 2

**Type of  
Organization**

Trade Association.  
Works through other organizations to develop standards.

**Scope**

An association of worldwide manufacturers of friction materials (brake linings, brake blocks, and clutch facings). Members represent over 80 percent of United States and Canadian manufacturers of friction materials.

**Standardization  
Activities**

Standardization activities, administered by the Data Book and Technical Committee, comprise 25 percent of the total program. Issues catalogs using a standard numbering system for all current automotive brake linings, brake shoes, and clutch facings. A copyrighted numbering system is authorized for use by the Institute, its members and their customers. FMSI's standard numbering system is worldwide in scope. Publishes the Automotive Data Book.

**Formerly**

Brake Lining Manufacturers Association (BLMA)

**Keywords**

materials; brake linings; automotive; machinery; clutch facings;

## GAS APPLIANCE MANUFACTURERS ASSOCIATION

C. Reuben Autery, President

1901 North Moore Street  
Arlington, Virginia 22209  
(703) 525-9565

FAX: (703) 525-0718

Founded: 1936

Standards Staff: 10

### Type of Organization

Trade Association.  
Works through other organizations to develop standards.

### Representation

Over two hundred representatives of member firms active in 50 standards committees of ANSI, ASTM, ASHRAE, ASME, NFPA, and others.

### Certification

GAMA operates programs which randomly select gas and oil furnaces and boilers, and gas, oil, electric, and heat pump water heaters from participating members and tests them in accordance with DOE efficiency test procedures at ETL Testing Laboratories, Inc., to verify the manufacturers' established efficiency ratings which are published semi-annually.

### Secretariats

Secretariat to ISO/TC 161. Convenor of Working Group 2 of ISO/TC 161. Administrator of U.S. Technical Advisory Group for ISO/TC 161 on gas controls.

### Scope

A trade association for more than 250 manufacturers of residential, commercial, and industrial gas and oil fired appliances and equipment; gas, electric, heat pump, and oil water heaters; gas- and oil-fired central furnaces; and equipment used in the production, transmission, and distribution of natural gas.

### Standardization Activities

Works through the national standards promulgation procedures of other groups and organizations, which develop and maintain 80 standards. In this manner, a high quality manufacturers' input is provided in the development and constant maintenance of standards for gas and oil appliances and equipment, recognized as American National Standards by the American National Standards Institute.

Cooperates with government agencies, such as the Department of Commerce, Department of Energy, Consumer Product Safety Commission, Federal Housing Administration, Federal Trade Commission and General Services Administration.

### Keywords

gas appliance; oil fired appliances; furnaces; water heaters; gas transmission equipment; energy; building; consumer products; industrial equipment;

**GAS PROCESSORS ASSOCIATION**

Mark Sutton, Executive Director

6526 East 60th Street  
Tulsa, Oklahoma 74145  
(918) 493-3872

FAX: (918) 493-3875

Founded: 1921

Standards Staff: 8

**Type of  
Organization**

Trade Association.  
Standards Developer.

**Standards  
Designation**

Standards; Technical Publication TP; Research Report  
RR.

**Secretariats**

ASTM Technical Division H of Committee D-2 on Petroleum  
Products and Lubricants.

**Scope**

An international trade association of 150 member companies that produce and process natural gas, or engage in processing, transport, storage, or marketing of natural gas liquids. Six technical subcommittees prepare and maintain industry standards applicable to the gas processing industry. Standards include plant design and analytical procedures for natural gas and gas liquids.

**Standardization  
Activities**

Develops and maintains product specifications for natural gas liquids (propane, butane, natural gasoline), principally for large inter-company industrial custody transfer. Specifications require and include industry standards for gas and liquid measurement, gas and liquid analysis, storage facilities, and physical property data. Also maintains specifications for LP-Gas consumer products (commercial propane and commercial butane). A continuing research program is directed toward development of measurement data and thermodynamic properties of natural gas and gas liquid mixtures.

**Availability**

Sold directly and through IHS.

**Formerly**

Natural Gas Processors Association (1964)

**Keywords**

liquefied gas; natural gas; energy; consumer products;

## GEMOLOGICAL INSTITUTE OF AMERICA

William E. Boyajian, President

1660 Stewart Street  
Santa Monica, California 90404  
(310) 829-2991 FAX: (310) 928-0247

Founded: 1931 Standards Staff: 2

Type of Organization Nonprofit Educational and Research Institution.  
Standards Developer.

Standards Designation Diamond and Gemstone Quality Standards.

Certification Grading reports issued by GIA's Gem Trade Laboratories are referred to as Diamond Quality Reports, although in the jewelry industry they are most often called certificates.

Scope Promotes the jewelry trade, serves the needs and professional interests of members, and upgrades professional skills through educational programs in the identification and quality analysis of gemstones and pearls, jewelry making and repair, retailing and store management. Maintains gem testing and research laboratories and develops testing and grading equipment.

Standardization Activities Key elements of the Institute's education program are standard grading systems developed by the Institute to evaluate and appraise diamonds and colored stones. Standards for quality analysis and grading were first established for polished diamonds in 1953.

Keywords diamonds; gemstones; jewelry; quality; grading; testing; consumer products;

## GENERAL AVIATION MANUFACTURERS ASSOCIATION

Edward Simpson, President

1400 K Street NW.  
Suite 801  
Washington, DC 20005  
(202) 393-1500 FAX: (202) 842-4063

Founded: 1970 Standards Staff: 1

Type of Organization Trade Association.  
Standards Developer.

Standards Development	Standards developer since 1974. Eight active standards. None processed through ANSI. Draft standards not available for review.
Standards Designation	GAMA Specifications.
Government Adoption	The FAA accepts compliance with GAMA specifications in lieu of its own standards or regulations or as an acceptable means of meeting FAA regulations.
Scope	A national trade association representing United States manufacturers engaged in the research, development, and manufacture of general aviation aircraft, aircraft engines, avionics, and component parts of general aviation aircraft.
Standardization Activities	Directed toward meeting industry needs with respect to dissemination of operating, maintenance and safety information, or toward meeting government certification requirements. GAMA Standards include specifications for pilot's operating handbook, manufacturers' maintenance data, decals to minimize the misfueling of general aviation aircraft, electronic publications, and specifications for tape to mark fueling nozzles. In the case of standards developed to fulfill government requirements, FAA participates in the development and approval of the standards. Standards have been used worldwide by aircraft manufacturers in order to meet FAA's requirements. Monitors the activities of other standards developing organizations, including RTCA, SAE, ASTM, and ISO.
Availability	Distributed directly.
Keywords	aviation; avionics; transportation; maintenance; pilot training;

#### GLASS ASSOCIATION OF NORTH AMERICA

William J. Birch, Executive Vice President

White Lakes Professional Building  
3310 Harrison Street  
Topeka, Kansas 66611  
(913) 266-7013  
Founded: 1994

FAX: (913) 266-0272  
Standards Staff: 1

Type of Organization	Business Association. Standards Developer.
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Scope	A nonprofit organization of firms engaged in glass distribution, installation and fabrication.
Standardization Activities	Develops specifications, standards, and testing procedures for a variety of glass products. Technical committees are involved in Standards and Engineering, Appliance Specifications, Construction Specifications, Spandrel Specifications and Consumer Safety Glazing Legislation. Publishes the tempered Glass Engineering and Standards Manual, the Laminated Glass Design Guide, the Glazing Manual and the Sealant Manual.
Availability	Distributed directly.
Formerly	Glass Tempering Association
Keywords	glass tempering; laminated glass; materials; building; glazing; distribution; installation;

#### GLASS PACKAGING INSTITUTE

Lewis D. Andrews, Jr., President

1627 K Street, NW  
Suite 800  
Washington, DC 20006  
(202) 887-4850  
Founded: 1945

FAX: (202) 785-5377  
Standards Staff: 2

Type of Organization	Trade Association. Standards Developer.
Scope	Represents the manufacturers of glass containers and closures producing 90 percent of the United States' output. Promotes the continued growth and acceptance of glass containers as desirable, competitive packages of beverages, foods, and other commodities.
Standardization Activities	Maintains a Technical Committee augmented by specific subcommittees and task groups. This committee meets regularly with qualified specialists from participating firms to review and investigate unique technical problems developing in the industry. Participated in the development of the Department of Commerce Voluntary Product Standard for Carbonated Soft Drink Bottles (PS 73-89), which covers major considerations in the manufacture and control of containers for carbonated soft drinks.
Keywords	packaging; glass containers;

## GOLD INSTITUTE

John H. Lutley, President

1112 16th Street NW.  
Suite 240  
Washington, DC 20036  
(202) 835-0185

FAX: (202) 835-0155

Founded: 1976

Standards Staff: 1

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Designation

Unified Number Designations.

### Certification

No certification programs; supplier self-certification.

### Secretariats

ASTM Committee B-2, Section on Unified Numbering System Designations for Precious Metals.

### Scope

An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of gold through publications, seminars, joint symposiums with technical organizations, and trade shows.

### Standardization Activities

Develops standard alloy designations for gold alloys for the Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials (ASTM).

### Availability

Distributed directly and through ASTM and SAE.

### Keywords

gold; precious metals; bullion; alloys; materials;

## GRAPHIC COMMUNICATIONS ASSOCIATION

Norman W. Scharpf, President

100 Daingerfield Road  
Alexandria, Virginia 22314-2888  
(703) 519-8160

FAX: (703) 548-2867

Founded: 1966

Standards Staff: 17

### Type of Organization

Industry Association.  
Standards Developer.

Standards Development	Standards developer since 1976. 300 members plus staff participate in standards activities. 30 active standards or recommended specifications. 5 processed through ISO. Draft standards available for review.
Standards Designation	GCA Standard; recommended specifications.
Government Adoption	Department of Defense, Internal Revenue Service, and others have adopted GCA standards.
Certification	Produces Standard Reference Materials for testing conformance to IT2 Standards; developed conformance test suite for X3V1-related sections of ISO 8879; developing public identifier registration for ISO 8879.
Scope	An international membership association of printers, publishers, suppliers, and related industry firms dedicated to advancing the application of electronic technologies and modern management techniques in the graphic communications industry.
Standardization Activities	Develops standards and specifications for text processing and textual database identification; specifications for computer preparation of publications mailing labels; structures for magnetic tape transmittal of name and address information for printing and publishing applications; production specifications for web offset publications; operation codes for the pressroom; computer protocols for various functional areas; printing and publishing industry standards for electronic data interchange (ANSI X12) and bar codes (ANSI X3.182 & MH10.8M). Leads various industry specification committees, and takes a membership role in ANSI IT2, X3V1, ITI and related task groups.
Availability	Distributed directly and through Printing Industries of America, Inc.
Formerly	Graphic Communications Computer Association; PIA Computer Section
Keywords	printing; computers; text; mailing; information processing; communications; graphics;

**GRAVURE ASSOCIATION OF AMERICA**

	Cheryl L. Kasunich, Executive Vice President
	1200A Scottsville Road Rochester, New York 14624 (716) 436-2150
	FAX: (716) 436-7689
	Founded: 1947
	Standards Staff: 1
Type of Organization	Trade Association. Standards Developer.
Representation	CGATS.
Standards Development	More than 50 volunteers participate in developing your standards. Two active standards. None processed through ANSI. Draft standards are available for review.
Standards Designation	GAA.
Scope	Association of printing firms using the gravure printing process. Promotes quality printed products through the cooperation of publisher, printer, engraver, supplier, and advertising agency.
Standardization Activities	Provide guidelines for halftone input film and digital files for gravure publication proofing and printing and colormetric specifications of gravure publication proofing and printing. Standards are produced through a network of councils and subcommittees on a voluntary basis. Two hundred and seventy member firms observe GAA standards in publication, packaging and specialty gravure.
Formerly	Merger of Gravure Technical Association and Gravure Research Institute (1988)
Availability	Distributed directly.
Keywords	printing; ink; paper; photomechanical printing; communications; packaging;

**GRINDING WHEEL INSTITUTE**

J. Jeffrey Wherry, Manager

30200 Detroit Road  
Cleveland, Ohio 44107  
(216) 899-0010

FAX: (216) 892-1404

Type of Organization	Trade Association. Standards Developer.
Standards Development	Standards developer since 1914; four processed through ANSI.
Standards Designation	B74.X.
Secretariats	Accredited Standards Committee B7 on Use, Care, and Protection of Abrasive Wheels. Accredited Standards Committee B74 on Abrasives.
Scope	Manufacturers of wheels, stones, and other bonded abrasive products for grinding, sharpening, and polishing.
Standardization Activities	<p>Carried on by the Standards and the Safety Committees. Work of the Standards Committee deals with simplification matters. Initiated program for simplification of sizes of grinding wheels. Assists in the development of American National Standards covering the products of the industry. These include:</p> <p>B74 - The development of identification and dimensional standards and standard test methods for bonded, coated, and loose abrasives in the natural and manufactured categories.</p> <p>B7 - Specifications for safety in the use of bonded, coated, and loose abrasives, excluding natural sandstones; including safety requirements for abrasive products, abrasive machines and accessories, and requirements for the proper storage, handling, and mounting of abrasive products.</p> <p>Also participates in international standardization work with the International Organization for Standardization (ISO) and the Federation of European Producers of Abrasives (FEPA).</p>
Availability	Distributed directly and through ANSI.
Formerly	Grinding Wheel Manufacturers Association (1948)
Keywords	abrasive wheels; grinding wheels; abrasives; abrasive grain; diamond abrasives; machinery;



**GYPSUM ASSOCIATION**

Jerry A. Walker, Executive Director

810 First Street, NE.  
Suite 510  
Washington, DC 20002  
(202) 289-5440                      FAX: (202) 289-3707

Founded: 1930                      Standards Staff: 3

Type of                      Trade Association.  
Organization               Standards Developer.

Standards                      GA prefix.  
Designation

Scope                      Promotes the use of gypsum and gypsum products. Conducts technical research programs in fire, sound, and structural testing of gypsum products and related accessories. Contributes to building codes through education in the application and uses of gypsum products, and to the life-safety aspects of fire protection by providing advisory services in the interests of the industry and users of its products. Serves as the gypsum information center for all federal, state and local jurisdictions, as well as architects, specification writers and contractors.

Standardization               Maintains committees in the areas of Building Codes,  
Activities                      Operations and Regulatory Affairs, Promotion, Safety, and Technical. Prepares and publishes GA-216, Recommended Specifications for the Application and Finishing of Gypsum Board and GA-600, Fire Resistance and Sound Control Design Manual, as referenced by the Commentary to the BOCA National Building Code, SBCCI Standard Building Code and the ICBO Uniform Building Code. Has over 65 years of leadership in the ASTM C-11 Standards Committee on Gypsum and Related Building Materials and Systems.

Availability                      Distributed directly.

Keywords                      gypsum; construction; materials; drywall; wallboard;

**HACK AND BAND SAW MANUFACTURERS ASSOCIATION OF AMERICA**

Charles M. Stockinger, Secretary/Treasurer

1300 Sumner Avenue  
Cleveland, Ohio 44115  
(216) 241-7333                      FAX: (216) 241-0105

	Founded: 1959	Standards Staff: 1
Type of Organization	Trade Association. Standards Developer.	
Standards Development	Standards developer since 1920. Two active standards.	
Standards Designation	ANSI prefix.	
Scope	A trade association consisting of 8 United States manufacturers of hack and band saw blades. Promotes common business interests of the industry.	
Standardization Activities	Has been active in the standardization of hack saw blade sizes and band saws. Currently active on ASME B94 TC 19 Standardization Committee for Hack, Band, and Hole Saws, and on ISO/TC 29 WG 15, Band Saws. Continuously reviews and recommends changes in standards due to rapid addition of new blades and applications in the marketplace. Currently working with machine manufacturers for band saw length standardization.	
Availability	Distributed directly and through ANSI.	
Formerly	Merged Hack Saw Association and Metal Cutting Band Saw Association (1959)	
Keywords	cutting; saws; manufacturing;	

#### HAIR INTERNATIONAL

	Don Nye, Executive Director	
	124-B East Main Street Palmyra, Pennsylvania 17078 (717) 838-0795	
		FAX: (717) 838-0796
	Founded: 1924	Standards Staff: 1
Type of Organization	Professional Society. Standards Developer.	
Certification	Examinations to certify ability to do hairpiece work, styling, coloring, relaxing, and merchandising are required for the professional certification of barbers.	
Scope	Aims to professionalize the industry through education and standardization.	

Standardization Activities	Administers a National Education Council and Executive Committee which are active in standards activities. Standard rules and regulations are written for and apply to barber colleges, individual students and barbers, hairstylists, textbooks, and for judging contestants in contests. State regulations, however, supersede Hair International rules and regulations. Advocates use of a barber stylist standardized examination and educational program for the profession. Current projects include standardization of advanced educational methods in barber schools, as well as for shows and educational seminars.
	Promotes its standards through mailings, personal contact, a monthly magazine, and barber shows.
Formerly	Associated Master Barbers and Beauticians of America
Availability	Distributed directly.
Keywords	barbers; hair; beauticians; education;

#### HAND TOOLS INSTITUTE

	Richard C. Byrne, Executive Director
	25 North Broadway Tarrytown, New York 10591 (914) 332-0040                      FAX: (914) 332-1541
	Founded: 1935                      Standards Staff: 1
Type of Organization	Trade Association. Standards Developer.
Standards Development	65 members participate in standards development. 25 active standards. Processed through ANSI.
Standards Designation	ANSI B107.x.
Scope	Promotes and furthers the interests of its members relative to manufacturing, safety, standardization, international trade, and government relations. Provides a broad spectrum of educational data of industry interest, such as statistical and marketing surveys. Educates the hand tool user on the safe and proper use of hand tools.

Standardization Activities	Develops and advances standards dealing with performance, design and safety. Representatives serve on U.S. TAGs to ISO standards committee.
Availability	Distributed directly and through ANSI.
Formerly	Service Tools Institute
Keywords	tools; industrial equipment; consumer products;

#### HARDWOOD PLYWOOD AND VENEER MANUFACTURERS ASSOCIATION

E.T. Bill Altman, President

1825 Michael Faraday Drive, Box 2789

Reston, Virginia 22090

(703) 435-2900

FAX: (703) 435-2537

Founded: 1921

Standards Staff: 4

Type of Organization	Trade Association. Standards Developer.
Certification	HPVA has inspection, testing, and certifying programs for glue bond, structural, flamespread, and formaldehyde emissions.
Scope	A North American trade association for hardwood plywood and veneer manufacturers and prefinishers of hardwood plywood. Functions on a national and international level. Publishes newsletters and educational material, holds conferences; conducts surveys; and develops statistical reports on shipments of plywood and industry products. Promotes the sale and use of hardwood plywood.
Standardization Activities	Publishes the American National Standard for Laminated Hardwood Flooring, ANSI/HPMA LHF 1987; American National Standards for Hardwood and Decorative Plywood, ANSI/HPMA HP-1-1994, H-P-SG-86, Structural Design Guide for Hardwood Plywood; and a voluntary standard for sliced decorative wood face veneer, industry standard DFV-1 1988. Cooperates with all government agencies to write federal and military specifications which affect hardwood plywood, veneer, and flooring. Participates on various ASTM committees.  Monitors U.S. model building codes with reference to hardwood plywood products.
Availability	Distributed directly.

Formerly	Hardwood Plywood Manufacturers Association (1993) Hardwood Plywood Institute (1964)
Keywords	hardwood plywood; veneer; paneling; flooring; construction; building; wood products;
HEALTH INDUSTRY BUSINESS COMMUNICATIONS COUNCIL	
	Robert Hankin, PhD, President
	5110 N. 40th Street Suite 250 Phoenix, Arizona 85018 (602) 381-1091                      FAX: (602) 381-1093 e-mail: info@hibcc.org WWW: http://www.hibcc.org/
	Founded: 1983                      Standards Staff: 20
Type of Organization	Trade Association. Standards Developer.
Standards Development	<p>The Health Industry Business Communications Council (HIBCC) is an industry-sponsored nonprofit council, which was organized by major health care associations in 1983. The HIBCC Board of Directors, which oversees HIBCC operations and sets policy, is composed of individuals appointed from the ranks of Member Organizations. These now include: The American Hospital Association, American Medical Association, American Society for Automation in Pharmacy, Department of Defense, Health Industry Distributors Association, Health Industry Group Purchasing Association, Health Industry Manufacturers Association, Health Information and Management Systems Society, National Wholesale Druggists Association and Pharmaceutical Manufacturers Association.</p> <p>HIBCC supports numerous technical committees composed of individuals representing all segments of the industry who meet regularly to develop and maintain the various HIBCC standards. It is through this continuous review and broad industry participation that HIBCC standards meet the industry's needs by taking advantage of the latest communications technologies.</p> <p>HIBCC produces two bar code standards: HIBC Supplier Labeling Standard, and HIBC Provider Applications Standard.</p> <p>Four EDI Manuals cover specific business functions: Insurance, Finance, Contract Administration, and Materials Management.</p>



Draft standards are available from HIBCC.

**Standards  
Designation**

Published documents are designated with HIBCC acronym.

**Scope**

Facilitator of electronic communications through development of appropriate standards for information exchange among all health care trading partners.

**Standardization  
Activities**

Standardized manufacturer, customer, and product identification codes, including the Labeler Identification Code (LIC), Health Industry Number (HIN), and Universal Product Number (UPN); computerized EDI protocols in ANSI X12 approved message formats; and participation in national and international standards organizations working to further enhance electronic communications standards.

HIBCC received ANSI Accreditation, Organizational Method in July, 1995.

**Availability**

Bar codes; Standards, Universal Product Number (UPN), Labeler Identification Code (LIC), Database and Health Industry Number (HIN) Systems obtained through HIBCC; HIBCC EDI Usage Convention Manuals obtained through Washington Publishing, c/o EDI Support Services Inc., PO Box 203, Chardon OH 44024.

**Keywords**

EDI; electronic commerce; bar coding; Labeler Identification Code (LIC); Health Industry Number (HIN); universal identification number; Universal Product Number (UPN);

**HEALTH INDUSTRY MANUFACTURERS ASSOCIATION**

James Benson, Vice President, Science and Technology

1200 G Street NW  
Suite 400  
Washington, DC 20005  
(202) 783-8700

FAX: (202) 783-8750

Founded: 1975

**Type of  
Organization**

Trade Association.  
Works through other organizations to develop standards.

**Secretariats**

U.S. Technical Advisory Groups for IEC/TC 62 and TC 62A.

<b>Scope</b>	330 manufacturers of medical devices and <u>in vitro</u> diagnostics. Focuses on legislative and regulatory international and health policy issues affecting the industry.
<b>Standardization Activities</b>	Works through other organizations to ensure that member views are represented on policy issues related to voluntary and regulatory standards. Cooperates with AAMI, ASTM, NCCLS, ANSI, and other organizations.
<b>Keywords</b>	health; medical equipment; diagnostic products;
 <b>HEALTH LEVEL SEVEN</b>	
	<p>Mark McDougall, Executive Director</p> <p>3300 Washtenaw Avenue Suite 227 Ann Arbor, Michigan 48104-4250 (313) 677-7777 FAX: 313) 677-6622 e-mail: hq@hl7.win.net</p> <p>Founded: 1987 Standards Staff: 4</p>
<b>Type of Organization</b>	Professional and Trade Association. Standards Developer.
<b>+Standards Development</b>	ANSI Accredited Standards Developing Organization First standard (Version 1.0) published October 1987. Version 2.2, published in 1994 has been submitted to ANSI for designation as an American National Standard. HL7 has 1,570 members involved in the standards development process.
<b>Standards Designation</b>	HL7 Standard, Version 2.2.
<b>Government Adoption</b>	HL7 standards are being used by the Department of Veterans Affairs, Health Care Financing Administration, and the Center for Disease Control.
<b>Certification</b>	No certification, qualification or accreditation programs.
<b>Scope</b>	Health Level Seven (HL7) develops standards for the electronic exchange of clinical, financial and administrative information among independent health care oriented computer systems; e.g., hospital information systems, clinical laboratory systems, enterprise systems and pharmacy systems. HL7's 1500 members represent hospitals, computer vendors and consultants. The HL7 standard is supported by most information system vendors and used in the majority of large U.S. hospitals today. It is also used internationally in such countries as Australia, Austria, Belgium, Canada,

**Standardization  
Activities**

Each year HL7 convenes three Working Group meetings that usually draw between 250-300 people per meeting. HL7 has seven Technical Committees and five Special Interest Groups that are responsible for defining the HL7 standards. The current HL7 standard defines transactions for transmitting data about patient registration, admission, discharge and transfers, insurance, charges and payors, orders and results for laboratory tests, image studies, nursing and physician observations, diet orders, pharmacy orders, supply orders, and master files. HL7 is currently developing transactions for exchanging information about appointment scheduling, problem lists, clinical trial enrollments, patient permissions, voice dictations, advanced directives, and physiologic signals. Task forces in HL7 are also busy developing prototypes transactions with new state-of-the-art technologies.

**Availability**

Distributed directly. Also, HL7 has pioneered distribution of its minutes and standard drafts at no cost through Internet FTP servers at dumccss.mc.duke.edu and supports a discussion group on the HL7@Virginia.edu list server.

**Keywords**

EDI; healthcare standards; informatics; interface; connectivity;

**HEALTH PHYSICS SOCIETY**

Richard J. Burk, Executive Secretary

1313 Dolley Madison Blvd.

Suite 402

McLean, Virginia 22101

(703) 790-1745

FAX: (703) 790-2672

e-mail: hpsburkmgt@aol.com

Founded: 1956

Standards Staff: 3

**Type of  
Organization**

Professional Society.  
Standards Developer.

**Standards  
Development**

Standards developer since 1956.  
100 members participate in standards activities.  
17 active standards.  
10 in development stage.  
All processed through ANSI.

Government Adoption	Several HPS/N13 standards have been adopted by government agencies, such as the NRC.
Secretariats	ANSI N13 Committee on Radiation Protection. ANSI N43 Committee.
Scope	Encourages the development of scientific knowledge and practical means for the protection of man and his environment from the harmful effects of radiation, while encouraging its optimum utilization for the benefit of mankind.
Standardization Activities	Standards development directed toward the area of radiation protection including radiation monitoring, air sampling, personnel dosimetry, bioassay, environmental surveillance, and radiation emergency response. Standards are widely used by nuclear facilities, regulatory agencies, research and academic institutions, and medical facilities, which participate in their development.
Availability	Draft standards distributed directly. Published standards distributed through ANSI.
Keywords	dosimetry; radiation; nuclear energy; public health;

**HEAT EXCHANGE INSTITUTE**

	John H. Addington, Secretary/Treasurer
	1300 Sumner Cleveland, Ohio 44115 (216) 241-7333
	FAX: (216) 241-0105
	Founded: 1933
	Standards Staff: 3
Type of Organization	Trade Association. Standards Developer.
Scope	The HEI is a nonprofit trade association committed to the technical advancement, promotion, and understanding of a broad range of utility and industrial-scale heat exchanger and vacuum apparatus. The Institute concentrates its efforts on the manufacturing and engineering aspects of steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors, and deaerators.

<b>Standardization Activities</b>	Develops standards concerning steam surface condensers, closed feedwater heaters, power plant heat exchangers, liquid ring vacuum pumps, and steam jet ejectors, and deaerators.
<b>Keywords</b>	condensers; feedwater heaters; heat exchangers; vacuum pumps; steam jet ejectors; energy; industrial equipment; deaerators;

#### HELICOPTER ASSOCIATION INTERNATIONAL

Frank L. Jensen, Jr., President

1635 Prince Street  
 Alexandria, Virginia 22314-2818  
 (703) 683-4646 FAX: (703) 683-4745  
 e-mail: hai@rotor.com

Founded: 1948

<b>Type of Organization</b>	Trade Association. Works through other organizations to develop standards.
<b>Representation</b>	Federal Aviation Administration, National Transportation Safety Board, National Fire Protection Association, and other national and international organizations developing standards for safety, test, performance, and environment affecting helicopter design or operation.
<b>Certification</b>	Participates in development and coordination of certifications promulgated by federal, state, and international authorities.
<b>Scope</b>	Nearly 1300 member companies, including 591 civil helicopter operators in 64 countries. Its 19 committees represent the helicopter industry in federal and state regulatory matters; and provide civil helicopter operator user input in the areas of federal aviation regulation, heliport development, environmental, and related subjects. Develops, promotes, and conducts helicopter safety and management education programs worldwide. Works with the National Transportation Safety Board and the Federal Aviation Administration to identify accident cause factors and trends relating to accident prevention.
<b>Standardization Activities</b>	Develops, coordinates, and reviews recommended federal, state, and local standards and criteria for heliport and helicopter operations; assists community planners and heliport developers in environmental assessment and analysis of proposed heliports in communities and city business districts; participates in the de



velopment of National Fire Protection Association codes involving vertiports/heliport/helicopter fire protection and crash/rescue services. Develops, coordinates, and recommends to federal, state, and local authorities standards and criteria for the establishment of civil public-use heliports, hospital heliports, off-shore helidecks, private and personal use heliports.

**Formerly** Helicopter Association of American (HAA) 1981

**Keywords** helicopter; heliport; aviation; safety; transportation; emergency medical service;

#### HOME AUTOMATION ASSOCIATION

Charles McGrath, Executive Director

808 17th Street, NW, Suite 200  
Washington, DC 20006-3910  
(202) 223-9669 FAX: (202) 223-9569  
e-mail: 75250.1274@compuserve.com

Founded: 1988 Standards Staff: 1

**Type of Organization** Trade Association.  
Works through other organizations to develop standards.

**Representation** Represents manufacturers, utilities, dealers, installers, engineers, home builders, distributors, consultants.

**Scope** Members meet to discuss issues that effect the compatibility of several industries (HVAC, security, lighting, audio video, appliances, etc.,) and to develop interoperable products and integrated systems.

**Standardization Activities** HAA's Standards and Codes Compatibility Task Force is addressing the need for standards for power line media, packet format, languages and other system elements, as well as features which assure compliance with the National Electrical Code and related government requirements.

**Keywords** communications; consumer products; information processing; computers; electrical; electronic; energy; HVAC; security; environment; heating;

**HOME VENTILATING INSTITUTE -**

**Division of Air Movement and Control Association**

D.O. Rammien, Executive Director

30 West University Drive  
Arlington Heights, Illinois 60004  
(708) 394-0150 FAX: (708) 253-0088  
e-mail: AMCA@delphi.com

Founded: 1955

Standards Staff: 2

**Type of  
Organization**

Trade Association.  
Standards Developer: Primarily works through other organizations to develop standards.

**Representation**

AMCA, ASHRAE, NFPA, and UL.  
At any one time, HVI may have up to thirty representatives participating in standards development.

**Standards  
Development**

HVI started developing standards in 1959. Today it maintains one independent standard and promotes usage of recognized consensus standards.

**Standards  
Designation**

HVI (HVI 916, Rev. 4/95).

**Government  
Adoption**

Standards and procedures are referenced by the Department of Housing and Urban Development and the Department of Energy. The State of Washington cites the HVI Label as proof of acceptability.

**Certification**

Conducts a program for certifying air flow performance and sound emission for residential air exhaust or inlet devices, and for certifying air flow and energy efficiency performance for residential heat recovery ventilators. All ratings are based on independent testing at Texas A & M University, ORTECH International, or another approved independent testing laboratory. Also conducts a program for certifying net free area of static ventilating devices.

**Scope**

A voluntary organization for manufacturer self-regulation of residential exhaust, inlet, heat recovery, and static/passive ventilating devices. The organization is made up of manufacturers located in the United States and Canada. Participants in the organization produce a major portion of industry products marketed in North America.

**Standardization  
Activities**

Writes recommended practices for manufacturers.  
Develops certified ratings for air flow, sound emission, and energy efficiency that are used to satisfy requirements set for

kitchens, bathrooms, bedrooms, and other rooms in houses. HVI is recognized as a quality control or testing agency by the model code organizations. The purpose of the activities is to promote the well-being of the industry while protecting the consumer from exaggerated performance claims.

**Availability** Distributed directly.

**Formerly** Home Ventilating Institute

**Keywords** ventilating; acoustics; sound; heat recovery, energy recovery;

#### HUMAN FACTORS SOCIETY

Lynn Strother, Executive Director

P.O. Box 1369  
Santa Monica, California 90406  
(310) 394-1811 FAX: (310) 394-2410

Founded: 1957 Standards Staff: 1

**Type of Organization** Professional Society.  
Standards Developer.

**Standards Development** 100 members active in standards activities. One standard published, ANSI/HFS 100, Human Factors. Engineering of Visual Display Terminal Workstations.

**Secretariats** U.S. TAG to ISO 159.

**Scope** An interdisciplinary organization of professional people involved in the human factors field. Promotes the discovery, exchange, and application of knowledge concerning the relationship of people to their machines and their environment. Advocates the consideration of operators, maintainers, and users in the design of equipment and facilities. Supports the development of working and living environments that are comfortable and safe.

**Standardization Activities** Has developed a standard on visual display terminal (VDT) workplace design through ANSI Safety and Health Management Board.

**Availability** Sold directly and through ANSI.

**Keywords** human factors; ergonomics; safety; workplace design; office products; public health;

## HYDRAULIC INSTITUTE

Allen P. Wherry, Secretary Treasurer

9 Sylvan Way  
Parsippany, New Jersey 07054  
(201) 267-9700

FAX: (201) 267-9055

Founded: 1917

Standards Staff: 3

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Development

Standards developer since 1917.  
70 member companies participating in standards activities.

### Certification

No certification, qualification, or accreditation programs.

### Secretariats

American National Standards Committee B215, Pumps; U.S. TAG for ISO/TC 115.

### Scope

A nonprofit, national trade association that represents U.S. companies engaged in the manufacture of pumps; and is dedicated to excellence in engineering, manufacturing, and application of pumping equipment.

### Standardization Activities

Publishes standards in the public interest, designed to enhance understanding between the manufacturer and the purchaser, and to assist the purchaser in selecting and obtaining the proper product for his particular need. Cooperates with other organizations, including the American National Standards Institute, the American Society of Mechanical Engineers, the National Electrical Manufacturers Association, and the National Fire Protection Association, in writing standards subject to constant review and revision when necessary. The standards program is based on work performed by Technical Committees specializing in particular types of pumps. The present standards edition is an extensive rework of previous editions with four principal sections: centrifugal, vertical, reciprocating, and rotary pumps. Provides information on: classes, types, and nomenclature; ratings; test codes; applications; and installation, operation, and maintenance; and measurement of airborne sound from pumping equipment and construction materials. Also publishes the Engineering Data Book.

### Availability

Sold directly.

Formerly	Hydraulic Society
Keywords	pumps; fluids; industrial equipment;
 <b>HYDRONICS INSTITUTE</b>	
	John I. Woodworth, Technical Director
	35 Russo Place PO Box 218 Berkeley Heights, New Jersey 07922 (908) 464-8200 FAX: (908) 464-7818 Founded: 1915 Standards Staff: 3
Type of Organization	Trade Association. Standards Developer.
Standards Development	Standards developer since 1940.
Government Adoption	Equipment performance ratings are specified in Standard Specifications of several federal and state agencies.
Certification	Equipment rating resulting from tests are certified by the Ratings Committee, and are published in books for  general distribution to specifiers. Under new procedures established by DOE and FTC, the Institute tests and certifies the performance of residential boilers as meeting the standards of the regulations. Such certification is provided to municipalities and to users.
Scope	Manufacturers of hydronic (hot water and steam) heating and cooling equipment. Compiles statistics; sponsors educational programs. Assists government agencies, professional societies, and other trade associations in developing standards for residential and commercial buildings, hot water heating, steam, piping and system design criteria, residential cooling, panel heating, snow melting.
Standardization Activities	Sponsors and funds research programs, the results of which form the basis for developing standards for testing heating boilers, comfort radiation equipment, immersion water heaters, and for establishing their ratings and installation criteria. Performs certification tests as requested for both members and nonmembers. Performs re-tests on products from manufacturers' stock, which are chosen at random.



Provides guidance to government agencies at no cost in developing mechanical specifications, energy conservation standards, performance standards.

**Formerly** Institute of Boiler & Radiator Manufacturers (1970)  
Steel Boiler Institute (1963)  
Better Heating-Cooling Council (1970)

**Keywords** heating; cooling; boilers; hot water; snow melting; panel heating;  
building; industrial equipment;

#### ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA

Rita M. Harrold, Director, Education and Technical Development

120 Wall Street, Floor 17  
New York, New York 10004-5001  
(212) 248-5000 FAX: (212) 248-5017

Founded: 1906 Standards Staff: 2

**Type of Organization** Technical Society.  
Standards Developer.

**Standards Development** Standards developer since 1907.  
350 members participating in standards activities.  
8 active standards.  
All processed through ANSI.

**Government Adoption** Portions of several standards have been adopted by  
OSHA and by the states through EPACT.

**Scope** A technical society devoted to advancing the art, science, and  
practice of illumination by investigation, evaluation, and dissemination  
of knowledge to consumers, producers, and general interest  
groups through educational, literary, and scientific means.

**Standardization Activities** Maintains 106 technical committees and subcommittees  
that study and report to its Board of Directors on lighting of all  
areas, such as airports and aircraft, industrial facilities,  
institutions, offices, public conveyances, residences, schools,  
service stations, parking areas, sports and recreational areas,  
stores, streets and highways, theaters and television studios.  
Other subjects include light sources, maintenance, light control  
and luminaire design, nomenclature, quality and quantity of light,  
testing procedures for illumination characteristics, photobiology  
and light power limits for energy conservation. Standards define  
nomenclature and lighting criteria for offices, schools, industry,  
roadways, tunnels, interior living spaces, and casinos. Two joint  
standards are being written with ASHRAE on energy conservation to  
be submitted for ANSI public review.

**Availability** Distributed directly and through ANSI.

**Keywords** lighting design; illumination; lighting; buildings design;

**INCHCAPE TESTING SERVICES/ETL TESTING LABORATORIES**

Eric Birch, President

3933 US Route 11  
Cortland, New York 13045  
(607) 753-6711 FAX: (607) 756-9891

Founded: 1896

**Type of Organization** Product Test and Certification Laboratory.  
Standards Developer.

**Certification** ETL's primary activity is product certification. It conducts safety and performance testing on a wide range of consumer products. These tests are conducted according to industry standards which are national and international in scope. Directories are published periodically showing products such as HVAC equipment, gas appliances, building materials, fluorescent ballasts, refrigerator/freezers and carpeting.

ETL's certification programs are nationally recognized and used by agencies, such as General Services Administration (GSA), and trade associations, such as GAMA, ARI, SEI, AHAM and BHMA. ETL is also an independent third party testing laboratory providing safety listing and labeling services, by testing to nationally recognized standards such as UL, ANSI, ASTM and IEC. ETL's listing, labeling and follow up program is accepted in the United States, Canada, military branches, and the building code agencies such as SBCCI, ICBO and BOCA. ETL has also been designated as a Nationally Recognized Testing Laboratory (NRTL) by the Occupational Safety and Health Administration (OSHA).

**Scope** An independent third party testing, inspection, certification and safety labeling agency. ETL presently operates within the following disciplines: HVAC, Fire and Flammability, Refrigeration, Design Services, Electrical Performance, Electrical Safety, Acoustical, Mechanical and Photometric.

Standardization Activities	Develop standards for testing and certification procedures through experimental testing to determine appropriate test methods. Members of ETL's professional staff are active participants in standards committees sponsored by ANSI, ASHRAE, IEC, NEMA, NFPA, SAE, IEEE, and IES.
Formerly	Electrical Testing Laboratories, Inc.
Keywords	testing; electrical equipment; fire and flammability; acoustics; HVAC; safety listing and labeling; photometrics; mechanical;

## INDIANA LIMESTONE INSTITUTE OF AMERICA

William McDonald, Architectural Service Director

Stone City National Bank Building  
Suite 400  
Bedford, Indiana 47421  
(812) 275-4426

Founded: 1928

Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
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Standards	1 active standard.
Development	

Scope	Serves the construction industry, the architectural profession, and the limestone industry as a coordinating agency for the dissemination of accurate, unbiased information on limestone standards, recommended practices, grades, colors, finishes, and all technical data required for specifying, detailing, fabricating, and erecting Indiana limestone. The Institute is supported by quarriers, fabricators and associates of Indiana limestone building stone.
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Standardization Activities	Maintains a Technical Committee responsible for standardization activities. The Indiana Limestone Handbook, the only ILIA standard, is the national standard for the industry. In addition, government agencies include references to ILIA as the standard source for information on Indiana limestone in their standards and specifications.
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Availability	Distributed directly.
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**Formerly** Absorbed the National Association for Indiana Limestone.

**Keywords** limestone; materials; construction;

## **INDUSTRIAL DIAMOND ASSOCIATION OF AMERICA**

Fred A. Gray, Executive Director

P O Box 1070

Skyland, North Carolina 28776

(704) 684-1986

FAX: (704) 684-7372

e-mail: 76113.1364@CompuServe.Com

Founded: 1946

Standards Staff: 2

**Type of Organization** Trade Association.  
Standards Developer.

**Scope** The Industrial Diamond Association of America's activity has evolved from the natural diamond areas to superabrasives and, most recently, to ultrahard materials. Members include materials suppliers, tool manufacturers, component producers and educational/research affiliates. Geographical concentration in the United States, Canada and Mexico.

**Standardization Activities** Develops standards for industrial diamonds. With the American Society of Manufacturing Engineers, it cosponsors American National Standards Institute (ANSI) Project B-67, Industrial Diamonds and Accessories for Their Use. Through this project, an American National Standard for Diamond Dressing Tools has been developed and approved. With the Grinding Wheel Institute, the association also cosponsored ANSI Project B-74.1, Identification Code for Diamond Wheel Shapes. Other American National Standards activities in which the association has participated include: B-74.16, Checking the Size of Diamond Abrasive Grain, and B-74.17, Test for Bulk Density of Diamond Abrasive Grain.

In cooperation with the National Institute of Standards and Technology, the association developed a separate Commercial Standard for grading of diamond powder, known as CS261-63, Grading of Diamond Powder in Sub-Sieve Sizes.

**Availability** Distributed directly.

**Keywords** diamonds; manufacturing; materials; ultrahard materials; superabrasives;

## INDUSTRIAL FABRICS ASSOCIATION INTERNATIONAL

Steve Warner, Operations Director

345 Cedar Building  
Suite 800  
St. Paul, Minnesota 55101-1088  
(612) 222-2508 FAX: (612) 222-8215  
Founded: 1912 Standards Staff: 3

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Development

IFAI members actively participate on committees of  
ASTM, AATCC, BOCA, EPA, FHWA, GRI, ISO, ICBO, NFPA, SAE and USCG.

### Scope

A trade association with 11 product-related divisions, ranging from the Safety & Protective Products Division to the Truck Cover & Tarp Division. IFAI also has two country sectors: IFAI-Canada and IFAI-Japan. Over 2100 member firms represent all levels of the industrial fabrics industry including fiber producers, weavers, coaters, finishers and laminators.

### Standardization Activities

IFAI promulgates a voluntary industry standard (and model flammability code) for materials used in camping tentage, designated as CPAI-84. CPAI-84, which has been adopted by several states, is being revised and updated. Another voluntary industry standard that has been adopted by several states is CPAI-75, a rate-of-burn standard for sleeping bags, to be updated in 1996. IFAI has also developed CPAI-63, a quality assurance standard for cotton tarpaulins; and CPAI-CLI, standard test methods for woven coated and/or laminated polyolefins.

The IFAI Transportation Division, acting as the SAE Committee on Textiles and Flexible Plastics, establishes standard test methods for automotive interior trim and textiles for North American automotive manufacturers.

The IFAI Awning Division is establishing a set of standard test methods for assessing the comparative performance of awning and canopy fabrics.

IFAI's American Casual Fabric Furniture Association has established a set of standard test methods for assessing the comparative performance of casual (outdoor) furniture fabrics.



The United States Industrial Fabrics Institute (USIFI) is assisting the Department of Defense's Defense Personnel Support Center in their standards modernization effort.

The IFAI Geomembrane Division is working with EPA to develop voluntary guidelines and standards associated with nonhazardous industrial waste disposal.

**Availability**

Sold directly.

**Formerly**

Canvas Products Association International (CPAI)

**Keywords**

textiles; fabrics; tents; tarpaulins; fabric structures; flammability; synthetic lining/cover containment;

**INDUSTRIAL FASTENERS INSTITUTE**

C.J. Wison, Director of Engineering

1105 East Ohio Building  
Cleveland, Ohio 44114  
(216) 241-1482

FAX: (216) 241-5901

Founded: 1931

Standards Staff: 6

**Type of  
Organization**

Trade Association.  
Standards Developer.

**Scope**

An association of North American manufacturers of bolts, nuts, screws, rivets, and all types of special industrial fasteners. Advances fastener technology and application engineering.

**Standardization  
Activities**

Works cooperatively with national and international technical organizations, developing fastener standards and technical practices assuring users of maximum engineering efficiency and reliability, at minimum cost of assembly. There are more than 500 000 standard and 3 000 000 special sizes, kinds, and shapes of fasteners and engineering components.

Publishes the Fastener Standards Book, a major reference book for users of mechanical fasteners. This is a collection of pertinent standards, which documents all types of general purpose commercial industrial fasteners. The standards book is used by design engineers and production managers in all industries. The Sixth Edition was published in June of 1988.

In 1996, IFI will publish the third edition of Metric Fastener Standards which presents the internationally agreed upon system of engineering standards for commercial and industrial metric fasteners.

**Availability** Distributed directly and through IHS.

**Formerly** American Institute of Bolt, Nut, and Rivet Manufacturers

**Keywords** fasteners; metric; manufacturing;

#### INDUSTRIAL PERFORATORS ASSOCIATION

Dolores Morris, Secretary-Treasurer

710 North Plankinton  
Suite 622  
Milwaukee, Wisconsin 53203  
(414) 271-2263 FAX: (414) 271-5154  
Founded: 1961

**Type of Organization** Trade Association.  
Works through other organizations to develop standards.

**Representation** Active in standardization of perforated materials through pertinent ASTM and ISO Committees.

**Scope** A national trade association of manufacturers engaged in the production of perforated materials. Develops programs and activities to assist members achieve managerial expertise in marketing, manufacturing and other areas of company operations.

**Standardization Activities** Originally developed standards for products used in the mining and aggregate industries. This led to the publication of a series of standards widely used in these industries.

Finalized a series of standards for Industrial Perforated Metal, which has been adopted and published by ASTM Committee E 29.

Active in ISO/TC 24 which is involved with setting metric standards for perforated materials on a world wide basis. Also works closely with EUROPERF, which is the Trade Association of European Perforators.

**Keywords** perforators; screen; punched-plate; industrial equipment;

## INDUSTRIAL RISK INSURERS

John A. Davenport, AVP and Director-Research

85 Woodland Street

P O Box 5010

Hartford, Connecticut 06102-5010

(860) 520-7362

FAX: (860) 549-5780

Founded: 1890

Standards Staff: 9

### Type of Organization

Industrial property insurance.

### Standards Development

Develops loss prevention guidelines and recommended practices for use by those insured and loss prevention staff. These are published as the IRInformation series; approximately 275 guideline documents in three volumes.

### Certification

No certification, qualification or accreditation programs.

### Scope

These documents serve as the basis for Industrial Risk Insurers' loss prevention and control recommendations.

### Availability

Available on a subscription basis through the Librarian-Industrial Risk Insurers.

### Formerly

Factory Insurance Association (1975)

Oil Insurance Association (1975)

### Keywords

loss prevention; loss control; fire protection; boilers; machinery; highly protected risks;

## INDUSTRIAL SAFETY EQUIPMENT ASSOCIATION

Daniel K. Shipp, Jr., President

1901 North Moore Street

Suite 808

Arlington, Virginia 22209

(703) 525-1695

FAX: (703) 528-2148

Founded: 1934

Standards Staff: 3

### Type of Organization

Trade Association.

Works through other organizations to develop standards.

### Representation

75 members.

Representation on 20 ANSI Committees.

Work with ISO and ASTM Committees.

Certification	The membership of ISEA established an independent organization, the Safety Equipment Institute (SEI), in 1981. SEI administers a nongovernmental program to test and certify industrial safety products. SEI certification is voluntary, requiring annual product testing and quality assurance audits at manufacturing sites. Current programs include industrial helmets, eye and face protective products and emergency eyewash and shower equipment. Certification of respirators is performed by NIOSH and MSHA.
Secretariats	ANSI Z308.1 and Z358.1.
Standards	ANSI/ISEA 101.
Designation	ANSI/ISEA 102.
Scope	A nonprofit organization of manufacturers of personal protective products for industrial environments. Dedicated to the safety of workers who rely on protective equipment and to the welfare of the safety equipment industry. Membership is international.
Standardization Activities	Works for the development of standards which assure the high performance of safety products. Provides manufacturers' input to standards development through official representation to such organizations as the American National Standards Institute, National Fire Protection Association, National Society for the Prevention of Blindness, and the American Society for Testing and Materials. Product categories involved in standard activities include: emergency eyewash and safety shower, eye and face protection, fall protection, head protection, hearing protection, industrial first aid, industrial safety and health instruments, industrial warning devices, machinery guards, respiratory protection, safety cans, and safety wearing apparel.
Formerly	Industrial Safety Equipment Manufacturers Association of the United States of America (1936)
Keywords	safety; personal protection; industrial equipment;

#### INDUSTRIAL TRUCK ASSOCIATION

William J. Montwieler, Executive Director

1750 K Street, NW.

Suite 210

Washington, DC 20006

(202) 296-9880

FAX: (202) 296-9884

Founded: 1952

Standards Staff: 2

Type of Organization	Trade Association. Standards Developer.
Scope	Manufacturers of powered industrial trucks, tractors, and their major components.
Standardization Activities	Through its General Engineering Committee, develops a Manual of Recommended Practices, which is used as source material to advance safety and efficiency in the design, manufacturing, and use of industrial trucks. Cooperates with the American National Standards Institute, ASME Standards Committees, and ISO, as well as with the National Fire Protection Association in matters affecting powered industrial trucks.
Availability	Sold directly.
Formerly	Electric Industrial Truck Association (1951)
Keywords	industrial trucks; industrial equipment; tractors; fork lift;

**INFORMATION TECHNOLOGY INDUSTRY COUNCIL**

	<p>Rhett Dawson, President</p> <p>1250 Eye Street, NW Suite 200 Washington, DC 20005 (202) 737-8888                      FAX: (202) 638-4922 WWW: <a href="http://www.x3.org">http://www.x3.org</a> <a href="http://www.itic.org">http://www.itic.org</a> <a href="http://jtc1tag.org">http://jtc1tag.org</a></p> <p>Founded: 1916                      Standards Staff: 10</p>
Type of Organization	Trade Association. Standards Developer.
Standards Development	Over 1200 organizations participate in the development of ASC X3 domestic standards and JTC 1 international standards. 220 ANSI X3 standards. 76 ANSI/ISO standards. More than 1200 ongoing projects.
Secretariat	Accredited Standards Committee X3, Information Processing Systems. Administrator for U.S. TAG for ISO/JTC 1, Information Technology, and ISO TC 211 on Geomatics and Geographical.



## Scope

As a not-for-profit organization, ITI provides its association members a forum for industry consultation and united action; a means for communicating facts and views of the industry to the government, other industries, and the general public. The standards development portion of the organization is open to all materially and directly affected organizations.

## Standardization Activities

The staff assigned to the Trade, Technology and Standards Policy area cover policy issues affecting the information technology industry's products in the areas of standards, testing, certification, quality assurance, and related legislation and regulations in all countries where such goods and services are produced and/or sold. Through predominately ITI member committees, issues in such areas as the environment, ergonomics, health and safety, hardware, software, and systems functionality and performance characteristics are identified and analyzed with subsequent ITI positions developed. Currently active committees include:

The Ergonomics Committee which deals with issues such as existing and proposed national and international standards and regulatory activities covering ergonomics/human factors related to the IT products.

Environment and Safety Management Committee (ESMC) and its sub-groups which are concerned themselves with environment and safety standards, testing, certification, materials, life cycle management and quality assurance regulations - both domestically and internationally.

ESC-1, Product Life Cycle Environmental Management, which addresses standards, regulatory activities and other proposals related to the technical aspects of product life cycle management as they pertain to the IT industry.

ESC-2, Product Safety, which addresses electrical safety standards, testing and certification issues through Underwriters Laboratories in the United States, Canadian Standards Association in Canada, comparable national organizations in other countries of the world, and the International Electrotechnical Commission (IEC).

ESC-3, Power Interface, which addresses issues related to power supplied by the electric utilities and power supplies used in IT products.

ESC-5, Electromagnetic Interference, which deals with standards and regulations on the limits of electromagnetic emissions from industry products through the Federal Communications Commission and comparable agencies in the other countries where ITI members do business, as well as the International Special Committee on Radio Interference (CISPR).

ESC-6, Product Acoustics, which works on standards and regulations worldwide covering acoustic noise emitted from IT products.

ESC-9, Installation Codes and Requirements, which is concerned with requirements of the National Electrical Code in the United States, the Canadian Electrical Code in Canada, and comparable codes in other countries that apply to IT products.

Plastics Task Group which works with flammability and impact resistance requirements for plastics, as well as plastics recycling requirements, as they apply to IT products.

Information Technology and Telecommunications Equipment Task Group (ITTE TG) which focuses on the worldwide certification requirements for telecommunications and information processing equipment.

ITI/ITAC Joint Standards Committee (composed of ITI and its Canadian counterpart, the Information Technology Association of Canada), which works to harmonize standards and regulations of the United States and Canada that apply to IT products.

ITI/UL Policy Committee (comprised of UL top executives, ITI management and relevant committee officers) which meets annually to discuss electrical safety policy matters of importance to the IT industry.

ITI/CSA/ITAC Policy Committee (composed of executives from ITI, ITAC and the Canadian Standards Association) which meets annually to discuss electrical safety policy matters and to work on harmonization of North American safety standards related to the IT industry.

**Availability**

Distributed through ANSI and ISO.

**Formerly**

Computer and Business Equipment Manufacturers Association (1995)

**Keywords**

automation; computers; data processing; information processing; information systems; office machines; data communications; information technology; programming languages; storage media; vocabularies;

# INSTITUTE FOR INTERCONNECTING AND PACKAGING ELECTRONIC CIRCUITS

Thomas J. Dammrich, President

2215 Sanders Road  
Suite 250  
Northbrook, Illinois 60062  
(708) 677-2850 FAX: (708) 677-9570  
e-mail: thomasdammrich@ipc.org  
WWW: <http://www.ipc.org/>

Founded: 1957

Standards Staff: 7

## Type of Organization

Trade Association.  
Standards Developer.

## Standards Development

Standards developer since 1957.  
2000 member companies participating in standards activities.  
75 active standards.  
Standards and specifications processed through ANSI.  
Draft standards available to IPC representatives and applicable organizations.

## Standards Designation

IPC.

## Government Adoption

The Department of Defense has adopted 17 standards, with others pending.

## Certification

Qualification programs being developed.

## Scope

An international trade association of 1800 member companies representing manufacturers and users of electronic interconnection devices. Also includes key suppliers to the industry and representatives from over 60 government agencies.

## Standardization Activities

Develops standards which are used worldwide by producers and users of rigid and flexible printed boards, flat cable, hybrid circuits, and various discrete wiring techniques.

Works closely with many organizations including UL, DOD, ANSI, EIA, and JEDEC. Members actively serve on a wide range of military and industry standards committees including the IEC, ANSI, EIA, ISHM, IEEE, and UL. Technical input solicited from and supplied by the 1800 member companies of the IPC, and key government agencies and industry organizations.

IPC standards are used throughout the electronics industry in the interconnecting and packaging of electronic circuits. They cover dimensions and tolerances, acceptability levels and definitions and terms. Widely used IPC standards include a compilation of

visual quality standards; design and performance documents for soldering single, two sided and multi-layered printed wiring boards; solderability standards and surface mount documents. In addition, conducts round robin testing programs for state-of-the-art product performance, including testing of multilayer boards, evaluation of plated through-holes, fine lines, and laminates and alternatives to CFCs.

**Availability** Distributed directly and through ANSI, Global, and IHS.

**Formerly** Institute of Printed Circuits (1977)

**Keywords** printed circuits; printed boards; printed wiring boards; printed circuit boards; flat cable; electronics; electrical equipment; hybrids;

#### **INSTITUTE OF CASTER MANUFACTURERS**

Jack L. Lagershausen, Executive Secretary

115 South LaSalle Street #1400

Chicago, Illinois 60603

(312) 201-0101

FAX: (312) 201-0214

Founded: 1933

Standards Staff: 1

**Type of Organization** Trade Association.  
Standards Developer.

**Standards Development** Standards developer since 1950.  
Forty members participate in standards activities.  
Industrial Caster Standard MH11.1 processed through ANSI.

**Standards Designation** ICM Guides.

**Scope** A national trade association representing manufacturers of industrial casters and wheels. Maintains liaison with the Defense Supply Agency, DISC, Department of the Army, and GSA.

**Standardization Activities** Publishes "Guide to Understanding and Specifying Industrial Casters and Wheels," which includes standard information on casters and wheels (1995 edition).

**Availability** Sold directly.

Formerly Caster and Floor Truck Manufacturers Association (1990)

Keywords casters; floor trucks; industrial equipment;

#### INSTITUTE OF CLEAN AIR COMPANIES

Jeffrey C. Smith, Executive Director

1707 L Street, NW.

Suite 570

Washington, DC 20036

(202) 457-0911

FAX: (202) 331-1388

e-mail: icac@tmn.com

Founded: 1960

Standards Staff: 2

Type of Trade Association.  
Organization Standards Developer.

Scope Members are suppliers of stationary source air pollution control and monitoring systems, equipment, and services in North America. Works to promote the industry and to encourage improvement of technical and engineering standards.

Standards Develops technical standards, guidelines, and other  
Development publications which educate or otherwise help purchasers and users of air pollution control equipment, regulators, and the public.

Formerly Industrial Gas Cleaning Institute

Keywords air pollution control; emission monitoring;

#### INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

Andrew G. Salem, Managing Director of Standards

445 Hoes Lane

Post Office Box 1331

Piscataway, New Jersey 08855-1331

(908) 562-3800

FAX: (908) 562-1571

e-mail: stds.info@ieee.org

WWW: <http://www.ieee.org/>

Founded: 1884

Standards Staff: 42

Type of Professional Society.  
Organization Standards Developer.



<b>Standards Development</b>	30 000 members active in standards development. 680 standards; 530 standards projects underway. Many processed through ANSI. An ANSI accredited organization.
<b>Standards Designation</b>	IEEE Std xx-year.
<b>Government Adoption</b>	30 IEEE standards have been adopted by the federal government.
<b>Secretariats</b>	16 American National Standards Committees (some as co-secretariat)
<b>Scope</b>	A transnational professional society of 315 000 engineers and scientists in electrical engineering, electronics, and allied fields.
<b>Standardization Activities</b>	<p>The Standards Board has overall responsibility for standards development and approval, and the responsibility for participation in and cooperation with other organizations on standards issues. The Board currently has nine standing committees that provide assistance and make recommendations, offering expert advice concerning procedural and developmental matters, new opportunities, and future avenues to be explored.</p> <p>IEEE develops and publishes standards on a variety of topics, including bio-medical engineering communications, computer and software engineering, electrical safety, and commercial and industrial power systems. All IEEE standards are prepared by dedicated expert volunteers acting in their own fields of interest; yet are approved by a widespread, strict consensus process. Proposed standards are examined by the review committee to ensure that a proper balance of interested parties exists, and that coordination and balloting procedures have been maintained.</p>
<b>Availability</b>	Distributed directly and through commercial distributors. Japanese Standard Association (JSA), Book Supplies Bureau, British Standards Institute (BSI), Korean Standard Association (KSA).
<b>Formerly</b>	Formed by a merger in 1963 of the American Institute of Electrical Engineers and the Institute of Radio Engineers.
<b>Keywords</b>	bio-medical engineering; communications; computers; electric power; local area networks (LANs); electrical safety; software quality assurance; software engineering;

## INSTITUTE OF ENVIRONMENTAL SCIENCES

Janet A. Ehmann, Executive Director  
940 East Northwest Highway  
Mount Prospect, Illinois 60056  
(708) 255-1561 FAX: (708) 255-1699

Founded: 1954

Type of Organization	Professional Society. Works through other organizations to develop standards.
Scope	Devoted to the development and promotion of recommended practices, standards, specifications, research, simulation techniques, testing techniques, contamination control techniques, and the development of design criteria for equipment operation. The Institute is a member of the International Committee of Contamination Control Societies (ICCCS). Recommended practices have been developed by its Contamination Control Division in several areas.
Secretariats	ISO Technical Committee 209, "Cleanrooms and Associated Controlled Environments."
Standardization Activities	Considers and investigates matters related to contamination units and standards, as well as recommended practices, pertaining to, or applicable in, environmental engineering. Cooperates with other national technical organizations in matters regarding environmental standards, testing and engineering. Cosponsors meetings or group efforts with such organizations as American Society for Testing and Materials, American Institute of Aeronautics and Astronautics, Parenteral Drug Association, and the Department of Defense. Sponsors a representative to the International Electrotechnical Commission concerned with international standardization of environmental test methods.
Formerly	American Association for Contamination Control (1973)
Keywords	testing; contamination control; environment; quality assurance; clean rooms; minienvironments;

## INSTITUTE OF INDUSTRIAL ENGINEERS

Woodrow Leak, Executive Director

25 Technology Park  
Norcross, Georgia 30092  
(404) 449-0460 FAX: (404) 263-8532  
Founded: 1948 Standards Staff: 1

Type of Organization	Professional Society. Standards Developer.
Standards Development	50 volunteer members active in standards development. Standards processed through ANSI; All are designated American National Standards. Draft standards and revisions available for review by non-members.
Standards Designation	ANSI Z94.
Secretariats	American National Standards Committee Z94, Industrial Engineering Terminology.
Scope	An international society devoted to productivity improvement through the application of industrial engineering techniques. Serves more than 40 000 members in 87 countries. Provides a unique cross-section of products and services including books, journals, magazines, films, seminars, conferences, and certification.
Standardization Activities	Focuses on the terms and phrases used in the practice of industrial engineering. These terms and phrases are developed through 17 subcommittees that represent the various disciplines of industrial engineering.
Availability	Distributed directly and through ANSI.
Formerly	American Institute of Industrial Engineers
Keywords	industrial engineering; productivity; manufacturing;

#### INSTITUTE OF INTERNAL AUDITORS

Susan B. Lione, Manager of Standards

249 Maitland Avenue  
Altamonte Springs, Florida 32701-4201  
(407) 830-7600 FAX: (407) 831-5171

Founded: 1941	Standards Staff: 2
Professional Association.	
Standards Developer.	

Type of Organization

<b>Standards Development</b>	Standards for the Professional Practice of Internal Auditing were developed in 1978. The standards are monitored, updated, and adapted by the IIA's Internal Auditing Standards Board, an international volunteer committee consisting of 12-18 members. All substantial changes to the standards and their related guidelines are made through Statements of Internal Auditing Standards (SIASSs), which are then codified into the appropriate sections of the standards. All SIASSs are sub-mitted to the membership for comment before approval.
<b>Government Adoption</b>	Adopted by 12 United States states and 13 other government bodies and translated into 20 languages.
<b>Scope</b>	The IIA is an international association dedicated to the continuing professional development of the individual internal auditor and the internal auditing profession. The IIA offers various programs and products to enhance the practice of internal auditing, including standards, certification, seminars, conferences, educational products, a bimonthly magazine, and research publications.
<b>Certification</b>	The IIA's certification program, established in 1973, provides the only internationally recognized certification for internal auditors - the Certified Internal Auditor designation.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	internal auditing; internal auditors; auditing; accounting;

#### INSTITUTE OF MAKERS OF EXPLOSIVES

J. Christopher Ronay, President

1120 19th Street NW.  
Suite 310  
Washington, DC 20036  
(202) 429-9280

FAX: (202) 293-2420

Founded: 1913

Standards Staff: 1

<b>Type of Organization</b>	Safety Association. Standards Developer.
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<b>Standards Development</b>	Standards developer since 1913.
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<b>Standards Designation</b>	IME prefix.
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<b>Government Adoption</b>	IME recommendations are contained in federal and state regulations.
<b>Scope</b>	The safety association of the commercial explosives industry in the United States and Canada. Member companies include manufacturers of commercial explosives, fuses, and blasting detonators.
<b>Standardization Activities</b>	Develops standards related to safety in the transportation, storage, handling and use of commercial explosive materials. Works closely with regulatory agencies at the international, federal, state and local levels.
<b>Availability</b>	Sold directly.
<b>Keywords</b>	explosives; safety materials; blasting;

#### **INSTITUTE OF NUCLEAR MATERIALS MANAGEMENT**

	Barbara A. Scott, Executive Director
	60 Revere Dr. #500 Northbrook, Illinois 60062 (708) 480-9573 FAX: (708) 480-9282
	Founded: 1958
<b>Type of Organization</b>	Professional Society. Works through other organizations to develop standards.
<b>Representation</b>	Approximately 125 INMM members active in standardization as representatives on the standards committees of ANSI, ASTM and others.
<b>Certification</b>	Nuclear materials specialists and nuclear materials interns are certified by examination and the results reviewed by a certification committee.
<b>Secretariats</b>	ANSI N14, Transportation of Fissile and Radioactive Materials. ANSI N15, Methods of Nuclear Material Control.
<b>Scope</b>	A nonprofit organization of individuals working in governmental, industrial and academic institutions where nuclear materials are utilized. The Institute advances the application of principles of accounting, auditing, engineering, mathematics, physics, statistics, and physical security for the safeguarding of nuclear fuel facilities. INMM also promotes research in the fields of nuclear safeguards, materials accounting, materials control, physical protection, waste management, and transportation.



Standardization Activities	Directed toward meeting requirements of industry related to safeguarding nuclear materials. Principal activities include serving as ANSI secretariat for N14 and N15. INMM standards are used extensively in Department of Energy and Department of Defense facilities, as well as by government contractors and NRC licensees. In addition, INMM standards are used world-wide by related organizations and commercial enterprises.
Keywords	nuclear materials safeguards; nuclear materials waste management; nuclear material transportation; defense; energy; safety; environment;

#### INSTITUTE OF TRANSPORTATION ENGINEERS

	<p>Thomas W. Brahms, Executive Director</p> <p>525 School Street SW Suite 410 Washington, DC 20024-2729 (202) 554-8050                      FAX: (202) 863-5486</p> <p>Founded: 1930                      Standards Staff: 2</p>
Type of Organization	Scientific Society. Standards Developer.
Standards Development	300 members participate in standards development. 27 active equipment standards and recommended practices. None processed through ANSI. Draft standards available for review.
Standards Designation	ST - equipment standards. RP - recommended practices.
Government Adoption	The Federal Highway Administration of Department of Transportation has adopted a number of ITE equipment standards as part of the U.S. Manual on Uniform Control Devices. Many state and local agencies have also adopted these standards.
Certification	No certification, qualification, or accreditation programs.
Secretariats	A major sponsor of National Committee on Uniform Traffic Control Devices.
Scope	A professional society of those responsible for planning, designing, implementing, operating, and maintaining surface transportation systems of the world. Seven thousand members in 73 coun-

tries. Provides publications, educational programs, testimony, and other services to benefit the transportation profession and the general public.

Standardization Activities	Develops equipment standards and recommended practices. Equipment standards for traffic control devices include signs, signals, and markings. Cooperates with all interested parties in developing standards.
Availability	Distributed directly.
Formerly	Institute of Traffic Engineers (1976)
Keywords	safety; transportation; traffic control devices; traffic signals; pavement markings; roadway design;

#### INSULATED CABLE ENGINEERS ASSOCIATION

E. E. McIlveen, Secretary-Treasurer

P.O. Box 440  
South Yarmouth, Massachusetts 02664  
(508) 394-4424 FAX: (508) 394-1194

Founded: 1925

Type of Organization	Technical Society. Standards Developer.
Standards Development	Standards developer since 1925. 100 members participating. 50 active standards. Many standards processed through ANSI.

Standards Designation	ICEA, ICEA/NEMA, or ANSI/ICEA prefix.
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Government Adoption	FAA, GSA, Air Force, Navy, Rural Electrification Administration, and others.
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Certification	No certification, qualification, or accreditation programs.
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Scope	An international, nonprofit association of cable engineers which develops and publishes standards for electrical power, control, instrumentation, communications, and portable cables. The principal standards writing authority for industrial and utility cables in North America and recognized throughout the world. Membership confined to engineers who are on the technical staffs of concerns engaged in the manufacture of insulated electrical wires and cables, and who are qualified by technical training or experience to contribute to the Association's activities.
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Standardization Activities	Publishes recommended practices and treatises resulting from engineering research conducted by the Association. Publications on cable standards recognized by the National Electrical Manufacturers Association (NEMA), Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI).
Availability	Distributed through designated Secretariats. Listings available from Headquarters.
Formerly	Insulated Power Cable Engineers Association
Keywords	electrical cable; insulated cable; electrical equipment, communications; cable;

#### INSULATED STEEL DOOR SYSTEMS INSTITUTE

Steven C. Wherry, Managing Director

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

FAX: (216) 892-1404

Founded: 1975

Standards Staff: 3

Type of Organization	Trade Association. Standards Developer.
Standards Development	Eight member companies participate in standards development. Ten active standards including seven ANSI Standards.
Government Adoption	The ISDSI standards have been adopted by numerous government agencies.
Certification	No certification, qualification, or accreditation programs.
Scope	A national trade association representing United States companies engaged in the manufacture of insulated steel door systems (consisting of door, frame, and total perimeter seal), which are specially designed and marketed for the residential market and tested to the Institute standards.
Standardization Activities	Promulgates minimum standard specifications for the manufacture of insulated steel door systems to assure quality products for the residential market. Works closely with numerous government agencies, including Department of Housing and Urban Development, Department of Navy, Corps of Engineers, and the Farmers Home Administration. Also cooperates with various code

organizations and with the National Association of Home Builders, the Door & Hardware Institute, and Builders Hardware Manufacturers Association.

**Availability** Distributed directly.

**Keywords** doors; buildings;

#### INTER-SOCIETY COLOR COUNCIL

Dr. Danny C. Rich, Secretary

Datacolor International  
5 Princess Road  
Lawrenceville, New Jersey 08648  
(609) 895-7427 FAX: (609) 895-7461  
e-mail: 73700.3514@compuserve.com

Founded: 1933

**Type of Organization** Technical Society.  
Works through other organizations to develop standards.

**Scope** Coordinates work leading to the description and specification of color, and promotes the practical application of such work to color problems arising in science, art, and industry. Membership consists of 24 delegates from national societies and individual members, all with a common interest in color.

**Standardization Activities** Not a standardizing body, but many of the results of its work are incorporated by its member bodies into standards which they issue or sponsor. This work is carried out by sub-committees of the ISCC Problems Committee.

Examples of preliminary work done within the ISCC include the ISCC-NIST Method of Designating Colors and a Dictionary of Color Names (NIST Circular 553); designations of filters for theatrical lighting; definitions of color terms; recommendations for illuminating and viewing conditions in the colorimetry of reflecting materials; standard methods for mounting textile samples for colorimetric measurement; standard practice for the visual examination of small color differences; the determination of sets of maximally different nonfluorescent colors; and identification of pigments in use in artists paint leading to a method for lightfastness determination and an artists' paint specification.

**Keywords**

color; colorimetry; instruments; testing;

**INTERNATIONAL ASSOCIATION OF ELECTRICAL INSPECTORS**

D. H. Cox, Executive Director

901 Waterfall Way #602  
Richardson, Texas 75080  
(214) 235-1455

FAX: (214) 235-3855

Founded: 1928

Standards Staff: 2

**Type of  
Organization**

Trade Association.  
Works through other organizations to develop standards.

**Representation**

20 members and 20 alternates on the National Electrical Code promulgated by the National Fire Protection Association. Also participates on the ANSI C80, C73 and ANSI C2 committees; the UL Standards Review Council; and NFPA committees 70A, 70B, 70E, and 79.

**Certification**

Member of the National Board of Governors for the certification of electrical inspectors, administered by the Educational Testing Service, Princeton, New Jersey.

**Scope**

Promotes cooperation between inspectors, the electrical industry, and the public. Collects and disseminates information relative to the safe use of electricity. Over 20 000 members including inspectors, contractors, electricians, consulting engineers, utilities, and testing labs. Seventy-five percent of its meetings and publication programs are devoted to standardization activities. Maintains liaison in its code activities with its members in Canada and Japan.

**Standardization  
Activities**

Cooperates in the formulation of standards for the safe use of electrical materials, devices, and appliances. Also promotes the uniform understanding and application of the National Electrical Code, as well as other electrical codes and standards. Maintains liaison with the federal government in many standardization activities, particularly for the use and application of the National Electrical Code. Cooperates with the Department of Housing and Urban Development, the Consumer Product Safety Commission, as well as with the Occupational Safety and Health Administration (OSHA) of the Department of Labor. Also serves on various NFPA, ANSI, and UL standards writing committees.



**Keywords**                   electrical code; inspection; safety; building; government officials;

**INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS**

Dick Woods, Executive Director

20001 Walnut Drive South  
Walnut, California 91789  
(909) 595-8449                   FAX: (909) 594-1537

Founded: 1926                   Standards Staff: 1

**Type of Organization**       Trade Association.  
Standards Developer and works through other organizations to develop standards.

**Standards Development**     Product and Installation standards are processed through IAPMO's Annual Conference.  
Eight standards are processed through ANSI.  
Draft standards are available for review.  
57 standards are currently published.

**Standards Designation**     PS, IAPMO Product Standards.  
IS, IAPMO Installation Standards.

**Government Adoption**       The Uniform Plumbing Code is used in over 2500 jurisdictions in the United States and is the mandatory code for 13 states.

**Certification**             Develops monthly listing of 10 000 products that have been tested and meet the requirements of applicable standards and the Unified Plumbing Code. Certification must be updated and renewed annually and manufacturers are subject to reinspection during the year of listing.

**Secretariats**             Accredited Standards Committees Z124, and A40

**Scope**                   Established by and for inspection officials of cities, counties, and states with the goal of bringing about uniformity in plumbing codes and their interpretation. Sponsors the Uniform Mechanical Code.

**Standardization Activities**   Presently writes installation and product standards for conventional plumbing products. Promulgates both installation and material standards for plumbing in the mobile home and recreational vehicle industry. Standardization activities are administered by the IAPMO Standards Committee and IAPMO Mobile Home Standards Committee. Works with the Department of Housing and Urban Development, the Department of Labor, and the National Institute of Standards and Technology.

Availability	Sold directly.
Formerly	Los Angeles Area Plumbing Inspector Association (1926) Plumbing Inspectors Association of Southern California (1929) Plumbing Inspectors Association of California (1930) Pacific Coast Plumbing Inspectors Association (1934) Western Plumbing Officials Association (1945)
Keywords	building code; plumbing code; mobile home; recreational vehicle; safety building; government officials;

#### INTERNATIONAL BRIDGE, TUNNEL AND TURNPIKE ASSOCIATION

	Neil D. Schuster, Executive Director
	2120 L Street NW. Washington, DC 20037 (202) 659-4620 FAX: (202) 659-0500
	Founded: 1932
Type of Organization	Trade Association. Works through other organizations to develop standards.
Representation	National Committee on Uniform Traffic Control Devices National Fire Protection Association.
Scope	A nonprofit association serving the needs of toll and tax supported bridges, tunnels, and highways. Concerned with the improvement of highway transportation in general. Members operate over 340 toll facilities with a combined value of approximately \$50 billion.
Standardization Activities	Works closely with the government and allied agencies and associations, such as the National Committee on Uniform Traffic Control Devices and the National Fire Protection Agency, to promote safety and improvement in highway transportation.
Keywords	construction; transportation; tunnels; bridges; highways; finance; electronic toll collection;

#### INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS

J.J. Barry, International President
1125 15th Street NW. Washington, DC 20005 (202) 733-7000 FAX: (202) 467-6316
Founded: 1891 Standards Staff: 7

**Type of Organization** International Labor Union (Canada and United States). Works through other organizations to develop and revise standards.

**Representation** Sixty members and staff active in activities including NFPA, ANSI, IEEE, ASTM, CSA (Canada) and other organizations.

**Scope** 850 000 members employed in electrical industries, including electrical construction and maintenance, power generation, transmission and distribution, telecommunications, radio, TV broadcasting, electrical product manufacturing.

**Standardization Activities** IBEW staff and selected IBEW members are active on all code panels of NFPA 70, The National Electrical Code. IBEW staff are members of ANSI C-2 National Electric Safety Code Technical Subcommittees and administrative groups. The IBEW participates in other standards relative to electrical work and equipment used in the performance of work.

Although not a standards body, the IBEW cooperates and participates in the work of standards bodies which affect electrical workers and public safety considerations for electric supply and utilization.

**Keywords** labor; union; electrical equipment; electric power; workers;

#### INTERNATIONAL CADMIUM ASSOCIATION

Hugh Morrow, President, North America

12110 Sunset Hills Road  
Suite 110  
Reston, Va 22090  
(703) 709-1400

FAX: (703) 709-1402

Founded: 1980

Standards Staff: 4

**Type of Organization** Trade Association. Works through other organizations to develop standards.

**Representation** 26 member companies.  
40 members on standards committees of ASTM, ANSI, NACE, SSPC, NEMA, NAMF, DCMA, AWS, ISO, AESF, MFSA, and a number of others.

<b>Scope</b>	The cadmium industry's market development and informational organization in North America. Promotes increased usage of cadmium metal and chemicals through technology transfer, technical services, regulatory activities, and publicity programs. Maintains an awareness of studies on the environmental effects of cadmium and of the regulations affecting the manufacture, use, and disposal of cadmium-containing products. A nonprofit trade association supported by producers and consumers of cadmium both in North America and throughout the world. International Cadmium Association was formed by merger of the Cadmium Council in North America and the Cadmium Association in Europe.
<b>Standardization Activities</b>	<p>Promotes the increased use of cadmium metal and chemicals and maximizes the effectiveness of its members on national standards committees. Assists the work of standards developing bodies within its area of interest by designating Council members to coordinate with the appropriate code bodies.</p> <p>Participates in developing standards including specifications for cadmium electroplating for corrosion and wear properties, color pigments, nickel-cadmium, and other cadmium-containing batteries, cadmium chemical stabilizers in plastics, and for a wide variety of soldering and brazing alloys.</p>
<b>Formerly</b>	Cadmium Council (1995)
<b>Keywords</b>	electroplating; corrosion protection; pigments; batteries; chemicals; materials; recycling; human health; environmental effects;

#### INTERNATIONAL CAST POLYMER ASSOCIATION

	Ms. Bari Moorefield, Executive Vice President
	1735 N. Lynn Street Suite 950 Arlington, Virginia 22209 (703) 276-2644
	FAX: (703) 524-2303
	Founded: 1974
<b>Type of Organization</b>	Trade Association. Standards Developer.
<b>Standards Designation</b>	ANSI Z124.x.

<b>Government Adoption</b>	All major code bodies and most state codes reference the Z124 Standards.
<b>Certification</b>	CMI administers a certification program for cultured marble lavatories, shower receptors and bathtubs utilizing third party independent testing laboratories.
<b>Scope</b>	Represents manufacturers of cultured marble products, such as lavatories, bathtubs, shower receptors, water closets and flat stocks. Focuses on improving the quality of cultured marble in the marketplace and increasing market penetration of members' products.
<b>Standardization Activities</b>	Represented on ANSI Z124 Committee that is responsible for standards covering bath tubs (Z124.1), shower pans (Z124.2), lavatories (Z124.3), water closets (Z124.4), and kitchen and bar sinks (Z124.6).
<b>Availability</b>	Distributed through ANSI.
<b>Keywords</b>	cultured marble; plumbing fixtures; building; materials;

**INTERNATIONAL CENTRE FOR DIFFRACTION DATA**

Daniel C. Richardson, General Manager

12 Campus Boulevard  
 Newtown Square, Pennsylvania 19073  
 (610) 325-2750 FAX: (610) 325-9823

Founded: 1941 Standards Staff: 28

<b>Type of Organization</b>	Scientific Society. Developer of Standard Reference Database.
<b>Scope</b>	Membership consists of scientists from academic, government, and industrial institutions who are actively engaged in developments in the field of x-ray powder diffraction and related disciplines. A paid professional staff edits, maintains, and distributes the Powder Diffraction File, a database for identification of materials by using x-ray powder diffraction techniques.
<b>Formerly</b>	Joint Committee on Powder Diffraction Standards
<b>Availability</b>	The Powder Diffraction File (PDF) is distributed directly.
<b>Keywords</b>	chemical analysis; x-ray diffraction; crystallography; databases;



## INTERNATIONAL COMMUNICATIONS INDUSTRIES ASSOCIATION

Walter G. Blackwell, Executive Director

3150 Spring Street  
Fairfax, Virginia 22031  
(703) 273-7200  
e-mail: icia@icia.org

FAX: (703) 278-8082

Founded: 1939

Type of Organization	Trade Association. Works through other organizations to develop standards.
Representation	American National Standards Committee PH7.
Scope	Commercial trade association for manufacturers, producers, and dealers of audio and visual communications products in the area of projection, as well as video and computers. Membership includes 800 domestic companies and more than 100 international members.
Standardization Activities	Seventy-five members active on working committees, subcommittees and task forces of Committee PH7 on Instructional Audio-Visual Systems Standards. Standards developed through PH7, issued through ANSI.
Formerly	National Association of Visual Education Dealers (1939-1947) National Audio-Visual Association (1947-1983)
Keywords	audio-visual; visual; communications;

## INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS

Jon S. Traw, President

5360 Workman Mill Road  
Whittier, California 90601  
(310) 699-0541  
Founded: 1922

FAX: (310) 699-8031  
Standards Staff: 110

Type of Organization	Professional Association. Standards Developer.
Standards Development	Developer and co-developer of 14 codes for all aspects of building construction. Invokes nearly 1000 standards of ASTM, UL, NFPA, ANSI and others.

<b>Standards Designation</b>	Uniform Building Codes.
<b>Government Adoption</b>	Jurisdictions which enforce the Uniform Building Code and its related documents are spread throughout the United States as well as territories of many of the Pacific and Caribbean Islands. The uniform codes have also served as the basis for the Tri-Services Manual for the Army, Navy and Air Force.
<b>Certification</b>	Provides a voluntary certification program. Code enforcement categories of certification include, but are not limited to, building inspector, electrical inspector, plumbing inspector, mechanical inspector, combination inspector, rehabilitation/conservation inspector, fire inspector, and plans examiner. Special certification includes reinforced concrete inspection, prestressed concrete inspection, structural masonry inspection, and structural steel/welding inspection.
<b>Scope</b>	Objective is to furnish a complete set of Uniform Codes for state, county, and city administrative authorities responsible for enforcement of building laws to ensure a high level of safety to life from fire, structural, and exit hazards. Maintains and improves the codes on a continuous basis.
<b>Standardization Activities</b>	Publishes the Uniform Building Code, Uniform Mechanical Code, Uniform Fire Code, and other related documents setting forth minimum standards for safe construction in buildings and structures. Also develops criteria for acceptance of new products through its subsidiary corporation. Issues recommendations to the member jurisdictions in order that manufacturers may obtain uniform recognition of their new products.
<b>Availability</b>	Sold directly.
<b>Formerly</b>	Pacific Coast Building Officials Conference (1922) International Conference of Building Officials (1958)
<b>Keywords</b>	building code; mechanical code; fire code; solar; solid fuel; safety; construction; building; government officials; energy conservation; building conservation; certification;

## INTERNATIONAL DISTRICT ENERGY ASSOCIATION

John L. Fiegel, Executive Director

1200 19th Street, NW  
Suite 300  
Washington, DC 20036  
(202) 429-5111

FAX: (202) 429-5113

Founded: 1909

Standards Staff: 1

### Type of Organization

Trade Association.  
Works through others.

### Standards Development

Several members serve on standards committees of ASTM, ASHRAE, ANSI, AGA, and others.

### Scope

750 members, utilities, municipalities, universities, institutions, manufacturers, consultants, engineers, government officials, and others working in the district heating and cooling/cogenerated heat and power (DHC/CHP) industry. Serves worldwide interests in DHC/CHP, particularly in the United States and Canada. Most commercial DHC/CHP systems, operated by investor owned utilities, are members of IDEA. Provides a principal forum to exchange information and maintains a liaison with federal agencies and related professional organizations.

### Standardization Activities

None.

### Formerly

International District Heating & Cooling Association

### Keywords

heating; cooling; district heating and cooling; cogenerated heat and power; energy; energy recovery; utilities;

## INTERNATIONAL ELECTRICAL TESTING ASSOCIATION

Mary Jordan, Executive Director

106 Stone Street  
Post Office Box 687  
Morrison, Colorado 80465  
(303) 697-8441

FAX: (303) 697-8431

Founded: 1972

Standards Staff: 2

### Type of Organization

Trade Association.  
Standards Developer.

<b>Standards Development</b>	Acceptance and Maintenance Testing Specifications for electrical power distribution and utilization equipment.
<b>Standards Designation</b>	NETA ATS-1995 Acceptance Testing Specification. NETA MTS-1993 Maintenance Testing Specification.
<b>Government Adoption</b>	Specifications adopted by GSA, the Postal Service, and military departments.
<b>Certification</b>	The International Electrical Testing Association is responsible for the certification of independent testing organizations and their technical personnel.
<b>Scope</b>	An international organization representing independent electrical power system testing and maintenance companies in areas of common interest, such as specifications for acceptance and maintenance testing, qualifying of technical personnel, qualifying of companies, NFPA and governmental committees, representation, etc.
<b>Standardization Activities</b>	Develops testing guidelines for electrical power transmission and utilization equipment, including: Automatic Reclosures and Sectionalizers, Capacitors, Circuit Breakers, Direct Current Systems, Disconnects, Emergency Systems, Fiber-Optic Cables, Ground Fault Systems, Instrument Transformers, Instrumentation, Metal Motor Control, Network Protectors, Outdoor Bus Structures, Power Cables, Power Transformers, Protective Relays, Rotating Machinery, Safety Equipment, Thermographic Testing, Short Circuit Studies and Overcurrent Coordination Studies, Surge Arrestors, Switchboard Assemblies, Switches, Systems. The specifications are based on ANSI, NEMA, and other industry consensus standards.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	National Electrical Testing Association
<b>Keywords</b>	electricity; certification; safety;

**INTERNATIONAL FABRICARE INSTITUTE**

Terry Burns, Executive Vice President

12251 Tech Road  
Silver Spring, Maryland 20904  
(301) 622-1900                      FAX: (301) 236-9320  
Founded: 1972                      Standards Staff: 3

Type of Organization	Trade Association. Works through other organizations to develop standards.
Representation	Represented on ASTM Textiles committee, and ASTM Solvents Committee.
Certification	Certify drycleaners as being Certified Environmental Drycleaners (CED) or Certified Professional Drycleaner (CPD).
Scope	An international association of 9000 drycleaners and/or laundrers.
Standardization Activities	Interested in, and active on, standards committees involved in quality control and safety as they affect members and their customers.
Formerly	American Institute of Laundering (1883) National Institute of Drycleaning (1907)
Keywords	drycleaning; laundering; textiles; consumer products;

#### INTERNATIONAL INSTITUTE OF AMMONIA REFRIGERATION

James E. Elsener, Executive Secretary

1200 19th Street, NW  
Suite 300  
Washington, DC 20036  
(202) 857-1110

FAX: (202) 857-1130

Founded: 1971

Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
Standards Development	Standard Developer since 1976. One active standard, ANSI approved. Available for review by members and non-members.
Standards Designation	ANSI/IIAR 74-2-1984.
Government Adoption	City of Columbus, Ohio has adopted IIAR 74-2 as part of the City Building Code.
Certification	No certification, qualification, or accreditation programs.
Secretariats	IIAR is the ANSI designated secretariat for ANSI/IIAR 74-2-1984.



<b>Scope</b>	A not-for-profit organization formed to promote education, information and standards for proper and safe use of ammonia as a refrigerant. Introduces and encourages constructive educational efforts in the fields of design, safety, installation, operation, maintenance, application, and other subjects to furnish a better understanding of the use of ammonia as a refrigerant.
<b>Standardization Activities</b>	Developed and maintains ANSI/IIAR 74-2-1984, American National Standard for Equipment Design and Installation of Ammonia Mechanical Refrigeration Systems.
<b>Availability</b>	Distributed directly or through ANSI.
<b>Keywords</b>	ammonia; refrigeration; CFC alternative; cooling;

# **INTERNATIONAL MASONRY INSTITUTE**

Joan Baggett Calambokidis, President

823 15th Street NW.  
Suite 1001  
Washington, DC 20005  
(202) 383-3903  
Founded: 1970

FAX: (202) 783-0433

<b>Type of Organization</b>	Trade Association. Works through other organizations to develop standards.
<b>Representation</b>	Participates in the standards activities of ASTM, ACI, ASCE, NFPA, and others.
<b>Scope</b>	Formed through a joint trust agreement between the Mason Contractors Association of America and the International Union of Bricklayers and Allied Craftsmen. Activities include promotion and national advertising for masonry construction, training of craftsmen, and development of areas related to masonry materials, design and construction.
<b>Standardization Activities</b>	Participates on committees involved in the development of standards associated with masonry and masonry construction including ASTM, ACI, ASCE, NFPA, and ANSI. Monitors and recommends changes to the national model codes: BOCA, ICBO, and SSBC.
<b>Keywords</b>	masonry; construction;

## INTERNATIONAL MOBILE AIR CONDITIONING ASSOCIATION

Frank Allison, Executive Director

P O Box 9000

Fort Worth, Texas 76147

(817) 338-1100

FAX: (817) 338-1451

Founded: 1958

Standards Staff: 2

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Development

25 active standards.  
None processed through ANSI.

### Standards Designation

IMACA prefix.

### Government Adoption

IMACA Standard 200 is used by General Services  
Administration.

### Scope

Serves system manufacturers, parts and service suppliers, distributors, and dealers in mobile air conditioning applications, including auto, heavy truck, recreational vehicle, farm and off-highway vehicle. Programs include sales promotion, engineering standards, monthly magazine, technical papers, and legislative activities.

### Standardization Activities

The Engineering Committee administers the standards program, currently consisting of 25 standards in print under the IMACA name. All standards are national in scope. The use of standards is voluntary and promoted through the national trade press and the IMACA monthly magazine.

### Availability

Distributed directly.

### Formerly

Automotive Air Conditioning Association (1970)

### Keywords

air-conditioning; mobile air-conditioning; transportation;  
automotive;

## INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION

Linda Rogers, Technical Training Coordinator

165 E. Union Street

Post Office Box 539

Newark, New York 14513

(315) 331-2182

FAX: (315) 331-8205

Founded: 1896

Standards Staff: 2

<b>Type of Organization</b>	Technical Society. Standards Developer.
<b>Standards Development</b>	50 active standards. None processed through ANSI.
<b>Standards Designation</b>	IMSA prefix.
<b>Government Adoption</b>	IMSA Wire and Cable Specifications have been recognized by the Department of Transportation and the Bureau of Public Roads.
<b>Certification</b>	Offers certification in the public safety fields of Traffic Signal Technician, Fire Alarm Technician, Signs and Markings Specialists, and Radio Dispatcher. Also offers certification for Work Zone Traffic Control and Roadway Lighting
<b>Scope</b>	A nonprofit, technical and educational association. Membership consists of 5500 members in the United States, Canada, Mexico, and the free countries of the world actively engaged in the engineering, construction, maintenance and operation of electrical, electronic and graphic communication systems used in public safety services, such as fire and police alarms, traffic control, radio communications, street lighting, signs and markings and related systems. Develops standards and manuals for use by the members and industry. Collects and disseminates educational material. Encourages unification in public safety fields for the purpose of improving the efficiency of public safety services.
<b>Standardization Activities</b>	Develops standards for various types of signal and communications wire and cable which must meet the requirements of ASTM and Underwriters Laboratories. Maintains a Cable Committee which updates and revises standards. Participates on Technical Committees of the National Committee on Uniform Traffic Control Devices, the Institute of Transportation Engineers Technical Council Committee, and the National Fire Protection Association. The Federal Communications Commission for Fire and EMS Radio Service recognizes IMSA as the Fire Frequency Coordination Body.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	electrical equipment; wire; cable; safety; communications;

## INTERNATIONAL SAFE TRANSIT ASSOCIATION

Dennis E. Young, Technical Director

1400 Abbott Road  
Suite 310  
East Lansing, Michigan 48823-1900  
(517) 333-3437 FAX: (517) 333-3813  
e-mail: ista@pobox.com

Founded: 1948

Standards Staff: 2

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Development

3 Preshipment Test Procedures.

### Certification

Accredits laboratories to perform testing services in accordance with ISTA procedures so that they, in turn, can certify that packages tested meet approved criteria and be designated "ISTA Safe Transit Tested."

### Scope

A voluntary, cooperative program which aims to reduce in-transit damage through a standardized program of preshipment testing, certification, and identification.

### Standardization Activities

Committee research and discussion leading to the standards for the preshipment testing of packaged products. Activity covers both testing procedures and performance levels.

### Availability

Sold directly.

### Formerly

National Safe Transit Association (1992)

### Keywords

packaging; containerization; transportation; testing;

## INTERNATIONAL SLEEP PRODUCTS ASSOCIATION

Russell L. Abolt, Executive Vice President

333 Commerce Street  
Alexandria, Virginia 22314  
(703) 683-8371 FAX: (703) 683-4503

Founded: 1915

### Type of Organization

Trade Association.  
Works through other organizations to develop standards.

<b>Scope</b>	Represents manufacturers of mattresses and bedsprings, as well as suppliers of machinery, raw and finished materials, components and other supplies, and services necessary to the manufacture of sleep products.
<b>Standardization Activities</b>	Since 1922, instrumental in the development of voluntary "size standards" for bedding products and components. These have included the NIST Simplified Practice Recommendation, R-2 series, issued as ANSI Standards, Z357.1-1981, superseded in 1989 by ISPA voluntary product dimensional guideline. Also co-sponsored Bar Code Marking Standard for the Furnishings Industry.
<b>Formerly</b>	National Association of Bedding Manufacturers
<b>Keywords</b>	bedding; mattresses; consumer products;

# INTERNATIONAL SOCIETY OF ARBORICULTURE

Chris Coleman, Executive Director

6 Dunlap Court  
P.O. Box GG  
Savoy, Illinois 61801  
(217) 335-9411  
Founded: 1924

FAX: (217) 355-9516  
Standards Staff: 1

<b>Type of Organization</b>	Professional Society. Standards Developer.
<b>Standards Development</b>	1 active standard. Processed through ANSI.
<b>Secretariats</b>	ANSI Committee Z133.1, Safety in Tree Care Operations.
<b>Scope</b>	Individuals engaged in commercial arboriculture; city, state, national government employees, and others interested in shade tree welfare. Conducts research programs.
<b>Standardization Activities</b>	Fosters the use of a standard which provides safety criteria for workers and the public. This standard presents safety requirements for pruning, trimming, repairing, maintaining, and removing trees; for cutting brush; and for the equipment used in such operations.
<b>Availability</b>	Distributed through ANSI.
<b>Formerly</b>	International Shade Tree Conference
<b>Keywords</b>	arboriculture; horticulture; tree care; safety;



INTERNATIONAL STAPLE, NAIL AND TOOL ASSOCIATION

John Kurtz, Executive Vice President

435 North Michigan Avenue  
Suite 1717  
Chicago, Illinois 60611  
(312) 644-0828

FAX: (312) 644-8557

Type of Organization	Founded: 1966 Trade Association. Standards Developer.	Standards Staff: 1
Standards Development	1 active standard. ANSI approved.	
Standards Designation	SNT prefix.	
Scope	An organization financed and directed by manufacturers of collated fasteners and power tools for driving them. Membership represents eighty percent of the pneumatic power tools and related fasteners produced in the world. Promotes and furthers the utilization of machine-applied staples, nails and similar fasteners and their power tools.	
Standardization Activities	Maintains a Technology Committee which is responsible for the development of standards in performance, safety, code approvals, and technical coordination with government agencies, code bodies, volunteer standards organizations, and other related associations.  Develops standards on tool design and operation and guidelines on performance testing of fastened connections. Representatives participate in standards development of other organizations involving driven fasteners.  Cooperates with federal, state, and local governments in the application of standards and with voluntary public organizations and code bodies in establishing acceptable fastening criteria and product applications.	
Availability	Sold directly.	
Formerly	Industrial Stapling and Nailing Technical Association (1975) Industrial Stapling Manufacturers Institute (1972)	
Keywords	fasteners; nails; staples; tools; power fastening; pneumatic fastening; industrial equipment; manufacturing;	

## INTERNET SOCIETY

Scott Bradner, Vice President for Standards

12020 Sunrise Valley Drive  
Suite 210  
Reston, Virginia 22091-3429  
(703) 648-9888 FAX: (703) 648-9887  
e-mail: [ietf-web@cnri.reston.va.us](mailto:ietf-web@cnri.reston.va.us)  
WWW: <http://info.isoc.org>

Founded: 1992

Standards Staff: 6

### Type of Organization

Technical Society.  
Standards Developer.

### Standards Development

Develops Internet-Drafts and Request for Comments (RFCs). Internet Drafts have no formal status and can be changed or deleted at any time. RFCs are the official Internet document series; however, not all RFCs are standards. More than 3000 individuals participate in standards activities. A typical draft represents the efforts of more than 1000 participants.  
51 Internet-Drafts.  
8 Draft Internet Standards.  
52 Proposed Internet Standards in process.

### Standards Designation

RFCxxxx.

### Government Adoption

The Internet Society's Internet Assigned Number Authority is chartered by the Federal Network Council to act as the clearinghouse to coordinate the assignment and use of numerous unique parameter values for Internet protocols.

### Certification

At this time there are no certification, qualification, or accreditation programs.

### Scope

One of the principal rationales for the Internet Society is to provide an institutional home and financial support for the Internet Standards process. The society does this on an international basis, and acts as a neutral, internationally recognized body, devoted to the support of Internet administrative infrastructure. The Internet Society currently consists of more than 5000 individual members and 100 network, product, information and systems management providers, and research and educational institutions.

### Standardization Activities

The working principles for Internet Standards development are codified in RFC 1602 (or the current version of the document). At the technical and developmental level, the Internet is made possible through creation, testing and implementation of Internet Standards. These standards are developed by the Internet Engineering Task Force. The standards are then considered by the Internet Engineering Steering Group, with appeal to the Internet

Architecture Board, and promulgation by the Internet Society as international standards. The RFC Editor is responsible for preparing and organizing the standards in their final form. The standards may be found at numerous sites distributed throughout the world. (See, for example, the ds.internic.) At the applications level, the MIT World Wide Web Consortium plays the leading role in developing and promulgating WWW standards.

The Internet Engineering Task Force (IETF) is the protocol engineering and development arm of the Internet. The IETF is a large open international community of network designers, operators, vendors, and researchers concerned with the evolution of the Internet architecture and the smooth operation of the Internet. It is open to any interested individual.

The actual technical work of the IETF is done in its working groups, which are organized by topic (e.g., routing, network management, security, etc.). Much of the work is handled via mailing lists; however, the IETF also holds meetings three times per year. Proceedings of the IETF meetings are made available in the following forms:

- Hypertext proceedings
- Gopher proceedings
- FTP from ftp.ietf.cnri.reston.va.us in/ietf-online-proceedings, and
- Hard copy proceedings.

The internal management of the IETF is handled by the area directors. Together with the Chair of the IETF, they form the Internet Engineering Steering Group (IESG). The operational management of the Internet standards process is handled by the IESG under the auspices of the Internet Society. The Internet Architecture Board (IAB) is a body of the Internet Society responsible for overall architectural considerations in the Internet. It also serves to adjudicate disputes in the standards process.

The Internet Society maintains a membership relationship with the International Telecommunications Union (ITU), which facilitates standards coordination between Internet Society and ITU activities, particularly in the Telecommunications Sector (ITU-T). This coordination includes the exchange of information, and joint meetings, exhibits, and workshops.

**Availability** All Internet Standards are available at no cost on the Internet. An RFC Index is available in the Database and Directory Services part of the InterNIC.

RFCs may be obtained via e-mail or FTP from many RFC Repositories throughout the world. Details on obtaining standards via FTP or e-mail may be obtained by sending an message to: rfc-info@ISI.EDU with the message body help: ways\_to\_get\_stds. For Example:

To: rfc-info@ISI.EDU.  
Subject: getting std's.  
help: ways\_to\_get\_stds.

**Keywords** global network; World Wide Web; telecommunications; protocols; intellectual property;

## **IRRIGATION ASSOCIATION**

Thomas H. Kimmell, Executive Director

8260 Willow Oaks Corporate Drive  
Suite 120  
Fairfax, Virginia 22031  
(703) 573-3551 FAX: (703) 573-1913  
Founded: 1949 Standards Staff: 1

**Type of Organization** Trade Association.  
Standards Developer.

**Standards Development** 1200 members active in standards development.

**Certification** Programs for irrigation designers, contractors, landscape irrigation auditors.

**Scope** Represents manufacturers, distributors, contractors, and technical personnel involved with agricultural and landscape irrigation systems.

**Standardization Activities** Engages in standards activities for comparing components through testing. Provides standard developers with the criteria for comparing products. Represents the United States to ISO/TC 23, SC 18. Maintains representation on committees of ANSI, ASAE, and ASME.

**Availability** Distributed directly.

**Keywords** irrigation; water conservation; sprinklers; agriculture; drip/micro; center pivot;

ISA, THE INTERNATIONAL SOCIETY FOR MEASUREMENT AND CONTROL

Glenn F. Harvey, Executive Director

67 Alexander Drive  
P.O. Box 12277  
Research Triangle Park, North Carolina 27709  
(919) 549-8411 FAX: (919) 549-8288  
WWW: <http://www.isa.org/>

Founded: 1945

Standards Staff: 7

Type of  
Organization

Technical Society.  
Standards Developer.

Standards  
Development

Standards developer since 1945.  
4000 members participating in standards activities.  
101 active standards; 150 active committees.  
Standards are processed through ANSI.  
Draft standards available for review.

Standards  
Designation

ISA-S, ISA Standard.  
ISA-RP, ISA Recommended Practice.  
ISA-TR, ISA Technical Report.

Government  
Adoption

NRC, DoD, USCG and others.

Certification

No certification, qualification, or accreditation programs.

Secretariats

Secretariat of IEC SC 31C Increased Safety Apparatus, IEC SC 31L Combustible Gas Detectors and IEC SC 65B Devices. ISA also serves as the administrative secretariat for U.S. TAG for IEC/TC 65, Industrial Process Measurement and Control; IEC/TC 66 on Electronic Measuring Equipment; IEC/TC 31, SC/31G on electrical apparatus for explosive atmospheres; and TC 85 measuring equipment for electromagnetic quantities.

Scope

Chartered as a nonprofit educational organization, its membership comprises more than 49 000 practitioners, scientists, educators, and students worldwide involved in industrial instrumentation and control technology.

Advocates the advancement of the technology of process measurement and control instrumentation through education. Augments the exchange of knowledge and information through a wide variety of publications and by developing consensus industry standards.

Standardization  
Activities

Prepares and promotes national and international standards which are competent, unbiased, widely applicable, and authoritative. Standards and practices committees span a wide



spectrum of industries and technical interests dealing with measurement and control instrumentation. Topics include symbol ogy, computer hardware and software, intrinsic safety, thermocouples, flowmeters, transducers, rotameters, face-to-face dimensions of control valves, control valve sizing, control valve capacity test procedures, manifold designs, pneumatic circuits, annunciators, dynamic response testing, specification forms, piping and instrument drawings, instrumentation for nuclear and fossil fuel power plants, installation practices, terminology, composition analyzers, environmental conditions for digital systems, strain gages, liquid level gages, batch control, combustible and toxic gas detectors, programmable electronic systems, fire detection instruments, and continuous weighing instrumentation.

**Availability** Distributed directly and through ANSI, IHS, and Global.

**Keywords** instrument; measurement; process measurement; control telemetry; metrology; analysis; automatic controls; scientific instrumentation; valves; industrial equipment;

#### ITA, THE INTERNATIONAL RECORDING MEDIA ASSOCIATION

Charles Van Horn, Executive Vice President

505 Eighth Avenue

Floor 12A

New York, New York 10018

(212) 643-0620

FAX: (212) 643-0624

Founded: 1970

Standards Staff: 2

**Type of Organization** Trade Association.  
Standards Developer.

**Standards Development** Standards developer since 1978.  
Five current standards.  
None processed through ANSI.

**Standards Designation** ITA, The International Recording Media Association.

**Scope** An international trade association that represents companies of many nations in the consumer and industrial electronics sector, specifically tape and disc, both audio and video, as well as home entertainment firms related to tape/disc/audio/video.

Standardization Activities	The Audio Technical Committee is responsible for an ongoing standardization program in all aspects of audio and video tapes and discs. Five standards are currently active. These include standards for audio cassettes, 8 track cartridges, splicing tape and duplication guidelines for 8 track and 4 track cartridges, and Minimum Standards of Audio Tape Products. Committee members also participate on IEC, ISO, EIA, AES, SMPTE, and ANSI Committees.
Availability	By written request to the address above.
Formerly	International Tape/Disc Association
Keywords	tape; cassette; audio; video; disc; communications; acoustics;

## JEWELERS VIGILANCE COMMITTEE

Joel A. Windman  
Executive Vice President and General Counsel

401 East 34th Street, N13A  
New York, New York 10016  
(212) 869-9505

Founded: 1912

Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
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Standards Development	Standards developer since 1913.
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Government	Adopted by the Department of Commerce and the Federal
Adoption	Trade Commission.

<b>Scope</b>	National organization supported by the jewelry industry, specializes in marking, labeling, terminology, and trade problems.
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Standardization Activities	<p>Works with government to assist industry and consumers.</p> <p>Develops voluntary product standards in the areas of precious metals, precious stones, and watches. Standardization work contributed to Federal Trade Commission's development of Guides for the Jewelry Industry. Conducted and revised a standardization study on the National Gold and Silver Stamping Act.</p>
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Availability	Distributed directly and through the Federal Trade Commission.
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<b>Formerly</b>	American Jewelers Protective Association (1943)
<b>Keywords</b>	jewelry; precious metals; precious stones; materials; consumer products;
<b>JOINT NEUROSURGICAL COMMITTEE ON DEVICES/DRUGS</b>	
	Dr. Allan Friedman, Dr. Francis Gamache, Cochairmen
	c/o American Association of Neurological Surgeons 22 South Washington Street Park Ridge, Illinois 60068 (312) 692-9500
	Founded: 1974
<b>Type of Organization</b>	Professional Society. Works through other organizations to develop standards.
<b>Representation</b>	ASTM, AAMI, ANSI, FDA Advisory Panel, World Federation of Neurosurgical Societies.
<b>Scope</b>	An educational and advisory group sponsored by the American Association of Neurological Surgeons and the Congress of Neurological Surgeons to assist in the writing of neurological standards by participating in the activities of standards developing organizations. Also active as an advisory group for such organizations as the American Medical Association, the American College of Surgeons, the FDA, and the U.S. Congress.
<b>Standardization Activities</b>	Coordinates participation in committees developing standards for materials, devices, and practices used by neurosurgeons. Current activities center on ASTM F4.05, Subcommittee on Neurosurgery, and Committees of the Association for the Advancement of Medical Instrumentation (AAMI). Standards of interest include: tissue adhesives, aneurysm clips, carotid clamps, cranial tongs, stereotactic devices, surgical microscopes, RF generators, transcutaneous electrical nerve stimulators, intracranial pressure-monitoring devices, and computed tomography practices. Monitors activities of ISO/TC 150/SC 3 and IEC/TC 62 through ASTM and AAMI.
<b>Formerly</b>	Merger of committees on Materials and Devices of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons (1974)
<b>Keywords</b>	medical devices; neurosurgery; materials; instrumentation; medical care;

## JUVENILE PRODUCTS MANUFACTURERS ASSOCIATION

William L. MacMillan, President

236 Route 38 West, Suite 100  
Moorestown, New Jersey 08057  
(609) 231-8500 FAX: (609) 231-4664  
Founded: 1962 Standards Staff: 3

**Type of Organization** Trade Association.  
Works through other organizations to develop standards.

**Representation** American Society for Testing and Materials.

**Certification** Sponsors a certification program for play yards, high chairs, walkers, expandable gates and enclosures, carriages and strollers, full-size baby cribs and portable hook-on chairs which provides a certification seal and directory listing for all products in compliance with ASTM Safety Specifications.

**Scope** Association of manufacturers of juvenile furniture and accessories.

**Standardization Activities** Advocates the use of ASTM Standards for performance requirements for play yards, high chairs, walkers, expandable gates and enclosures, carriages and strollers, full-sized baby cribs and crib cornerpost extensions, and portable hook-on chairs.

**Keywords** juvenile furniture; consumer products;

## LABORERS INTERNATIONAL UNION OF NORTH AMERICA

Arthur A. Coia, General President

905 16th Street NW.  
Washington, DC 20006  
(202) 737-8320 FAX: (202) 737-2754

Founded: 1903

**Type of Organization** Labor Union.  
Works through other organizations to develop standards.

**Certification** Training facilities are set up throughout North America to gain a high competency level and certification of skills for members who are in the construction and environmental remediation industries.

**Standardization Activities** Active in all model codes with continuous voting representation on the ASME A.40 Committee. Has a specific interest in standards development because of the health and safety of labor workers, as well as the public.

**Formerly** Prior to 1965, International Hod Carriers, Building and Common Laborers' Union of America

**Keywords** union; utilities; pipe installation; construction; safety; environmental remediation;

**LASER INSTITUTE OF AMERICA**

Peter Baker, Executive Director

12424 Research Parkway  
Suite 130  
Orlando, Florida 32826  
(407) 380-1553 FAX: (407) 380-5588  
e-mail: lia@mail.creol.ucf.edu  
www.creol.ucf.edu/~lia\

Founded: 1968 Standards Staff: 1

**Type of Organization** Professional Society.  
Standards Developer.

**Representation** ANSI.

**Secretariats** ANSI Z136 Committee on Laser Safety.

**Scope** A nonprofit membership organization devoted entirely to the educational advancement and promotion of the technology and applications of lasers. Conducts continuing education courses, seminars and technical symposia nationwide, and offers a variety of educational materials and publications.

**Standardization Activities** Develops standards on the Safe Use of Lasers. Provides guidance in hazard education and control measures to industry and health care facilities, and all personnel involved with lasers in manufacturing, communication, and medical applications. Details laser safety and training programs, as well as medical surveillance. Provides protocols for the various conditions of eye and skin exposure and methods for determining the information required for hazard evaluation and control. These consensus standards have been adopted by the national and international federal and state regulatory bodies, including the military, as basic documents or inputs to IEC and WHO standards dealing with laser safety.



**Keywords** laser; safety; medical;

#### LEAD INDUSTRIES ASSOCIATION

Jerome F. Smith, Executive Director

295 Madison Avenue  
New York, New York 10017  
(212) 578-4750

FAX: (212) 684-7714

Founded: 1928

**Type of Organization** Trade Association.  
Works through other organizations to develop standards.

**Representation** 75 members active in standardization activities.  
Represented on committees of ASTM, ANSI, NIST, ISO, ACS, NACE, AWS, and others.

**Scope** A nonprofit trade association representing all segments of the lead industry. Serves as the industry's market development arm by promoting increased use of lead and its end-products in a cost-effective and environmentally sound manner.

**Standardization Activities** Maximizes the effectiveness of its representatives on national standards committees. Participates in developing standards for noise control, radiation protection, waste disposal, waterproofing, ceramics, solder, plastics, and batteries.

Committees monitor and assist the work of standards developing bodies within their areas of interest by designating committee members for liaison and coordination with appropriate code bodies.

**Keywords** nuclear; noise control; solder; lead; materials;

#### LIBRARY BINDING INSTITUTE

Sally Grauer, Executive Director

7401 Metro Boulevard  
Suite 325  
Edina, Minnesota 55439  
(612) 835-4707

FAX: (612) 835-4780

Founded: 1935

Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
Standards Development	LBI Standard for Library Binding; first produced in 1971 and eighth edition produced in 1986.
Certification	Certification program for members who are commercial library binders.
Scope	An international trade association of library binders, suppliers to the industry and all others interested in preserving the useful life of written materials. Works at providing members with information and services so that they can better serve their customers.
Standardization Activities	Works with ANSI and Z39 Committees. Also has developed an inter-organizational Library Binding Institute standard for library binding.
Availability	Sold directly.
Keywords	library binding; book binding; communications;

#### **LIGHTNING PROTECTION INSTITUTE**

C. Andrew Larsen, Executive Director

3335 N. Arlington Hts. Road  
Suite E  
Arlington Hts., Illinois 60004  
(708) 255-8008 FAX: (708) 577-7276

Founded: 1955 Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
Standards Development	Standards developer since 1982. 12 members participating in LPI standards development. 4 members participating in NFPA standards development. None processed through ANSI.
Standards Designation	LPI prefix.
Certification	Offers product certification for lightning protection systems, as well as certification in 5 skill areas including, Master Installer, Journeyman Installer, Systems Designer, Systems Inspector, and Systems Designer/Inspector.

Scope	An association comprised of both manufacturers and dealers who supply and install components used in lightning protection systems for buildings and other structures and related industry professionals i.e., architects, engineers and consultants.
Standardization Activities	Develops standards designed to cover all materials and components which might be under stress while a lightning protection system is conducting lightning current. Also covers metals from the standpoint of durability as they are subjected to weathering and possible damage from corrosion, physical impact, or reaction with dissimilar metals.
Availability	Distributed directly and through LPI manufacturer. members.
Formerly	Lightning Rod Manufacturers Association (1955)
Keywords	lightning rods; lightning protection; building safety;

#### MAGNETIC MATERIALS PRODUCERS ASSOCIATION

	August L. Sisco, Executive Secretary
	11 S. LaSalle Street Suite 1400 Chicago, Illinois 60203 (312) 201-0101 Founded: 1959
	FAX: (312) 201-0214 Standards Staff: 1
Type of Organization	Trade Association. Standards Developer.
Standards Development	28 members participate in standards development.
Government Adoption	Department of Defense has adopted 0100.
Scope	Primary objective is to promote the progress and development of the magnetic materials industry through standardization programs and other activities as necessary.
Standardization Activities	MMPA publishes 0100-90, Standard Specifications for Permanent Magnet Materials; PC 110, Standard Specifications for Ferrite Pot Cores; FTC 410, Standard Specifications for Ferrite Toroid Cores; UEI 310, Standard Specifications for Ferrite U, E & I Cores; PMG-88, Permanent Magnet Guidelines; and SFG-92, Soft Ferrites, A Users's Guide.

**Availability** Sold directly.

**Formerly** Permanent Magnet Producers Association

**Keywords** magnetic materials; cores; electronic; materials;

#### **MANUFACTURED HOUSING INSTITUTE**

Jerry C. Connors, President

2101 Wilson Boulevard

Suite 610

Arlington, Virginia 22201

(703) 558-0400

FAX: (703) 558-0401

Founded: 1936

Standards Staff: 3

**Type of Organization** Trade Association.  
Works through other organizations to develop standards.

**Representation** The technical staff and membership participate in development of national standards by a consensus committee for manufactured housing and in cooperation with ASHRAE, NFPA, ASTM, NCSBCS, UL, and others endorsed by ANSI.

**Secretariats** Secretariat for a consensus committee which makes annual recommendations to the U.S. Department of Housing and Urban Development (HUD) to update the Federal Manufactured Home Construction and Safety Standards.

**Scope** A nonprofit trade association comprised of manufacturers, suppliers, insurers, financiers, retailers, community developers and community owners engaged in producing and servicing manufactured homes. Serves as a liaison to Congress and federal agencies in order to promote and protect the interest of the manufactured housing industry and its consumers. Provides monthly statistical reports on the industry and marketing strategies. Maintains finance, site development, government relations and public relations program and sponsors annual expositions and forums.

**Standardization Activities** The standards program is designed to assist members in making the manufactured home a safe, comfortable residence for the owner to live amid attractive surroundings. Advises the U.S. Department of Housing and Urban Development on the Federal Manufactured Home Construction and Safety Standards and Procedural and Enforcement Regulations (24 CFR 3280, 3282, 3283). These federal standards regulate the design and construction of the homes that are constructed by MHI members.

Formerly Mobile Home Manufacturers Association (1936)  
Keywords manufactured homes; factory built homes; building; mobile homes;

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE AND FITTINGS INDUSTRY

Olen Thornton, Executive Director

127 Park Street, NE  
Vienna, Virginia 22180-4602  
(703) 281-6613 FAX: (703) 281-6671

Founded: 1924 Standards Staff: 4

Type of Trade Association.  
Organization Standards Developer.

Standards Standards developer since 1924.  
Development 95 members.  
61 current standards or guidelines documents, all data  
presented bi-dimensionally.

Standards MSS SP prefix.  
Designation

Government One third of standards have been adopted for government  
Adoption agency use, more expected.

Secretariats U.S. TAG's for ISO/TC 153 and SC 5, 10, and Working Group 14 of SC  
1, in ISO/TC 5.

Scope Addresses the needs for standardization, specification, and docu-  
mentation related to industrial valves, fittings, flanges, pipe  
hangers, valve actuators and associated seals.

Standardization Develops and reviews standards. Publishes documents  
Activities available. Maintains informal liaisons with ASME, API, AWWA,  
ASTM, UL and other committees/organizations.

Availability Hard copy sold directly; microform and electronic format available  
through IHS.

Keywords valves; fluid controls; industrial equipment; fittings; flanges;  
pipe hangers; actuators; packings; gaskets;



**MANUFACTURING AUTOMATION PROTOCOL (MAP)**

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

**MANUFACTURING JEWELERS AND SILVERSMITHS OF AMERICA**

David L. Rocha, Acting President

One State Street  
Providence, Rhode Island 02908  
(401) 274-3840 FAX: (401) 274-0265

Founded: 1903 Standards Staff: 1

**Type of  
Organization**

Trade Association.  
Standards Developer.

**Standards  
Development**

Standards developer since 1933.

**Standards  
Designation**

FTC rules for the jewelry industry.

**Government  
Adoption**

Current rules adopted 1957, amended 1959.

**Secretariats**

Jewelers Vigilance Committee.

**Scope**

A national education and information organization for jewelry and silver product manufacturers.

**Standardization  
Activities**

Engaged in marking, stamping, nomenclature, precious metals, semiprecious metals, stones, pearls, country origin marks, and related practices. Industry committees agree on proper standards in keeping with the U.S. National Stamping Act. These proposals are submitted to FTC for inclusion into "rules for the jewelry industry." Rules are generally enforced by FTC, periodic checks of merchandise are made by MJSA and JVC to assure that the standards are being properly followed.

**Availability**

Distributed through the Federal Trade Commission.

**Keywords**

jewelry; precious metals; precious stones; gold; silver;  
materials; consumer products;

## MARBLE INSTITUTE OF AMERICA

Pennie Sabel, Managing Director

30 Eden Alley  
Suite 201  
Columbus, Ohio 43215  
(614) 228-6194  
Founded: 1907

FAX: (614) 228-7434

Type of Organization	Trade Association. Works through other organizations to develop standards.
Representation	ASTM C18 Dimension Stone Committee. ANSI A108.1 Installation of Ceramic and Marble Tile; Installation Materials. ASTM E06 Performance of Building Construction.
Scope	Objective is to encourage increased usage of dimension stone in North America. Membership composed of producers, fabricators, importers, exporters, sales agents, distributors, finishers, installing contractors, and those who sell products and services to the industry.
Standardization Activities	Helps establish standards for dimension stone through ANSI and ASTM committees. Promotes quality of workmanship; publishes design manual and color reference volumes.
Formerly	Merger of National Association of Marble Dealers and National Association of Marble Producers (1944)
Keywords	marble; granite; limestone; sandstone; slate; bluestone; quartzite; dimension stone; building; furniture; materials;

## MARKING DEVICE ASSOCIATION

David G. Lister, Managing Executive

435 North Michigan Avenue  
Suite 1717  
Chicago, Illinois 60611  
(312) 644-0828  
Founded: 1910

FAX: (312) 644-8557  
Standards Staff: 1

Type of Organization	Trade Association. Standards Developer.
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Scope	Manufacturers of marking devices including rubber and metal stamps, name plates, and seals.
Standardization Activities	Prepares standards for various kinds of metal marking tools and dies. Included are standards for size and depth of marking characters, styles of symbol stamps, stock sizes for various stamp blanks. Other standards in use include those for bores and keyway sizes for roll dies, roller die blanks, and type and type holders for interchangeable steel type.
	Develops standard terminology for all kinds of marking devices, including metal marking tools and dies, rubber stamps, seals, stencils, and marking inks.
Availability	Distributed directly.
Keywords	marking devices; stamps; stencils; seals; inks; office products; manufacturing;

# MASONRY AND CONCRETE SAW MANUFACTURERS INSTITUTE

J. Jeffrey Wherry, Executive Director

30200 Detroit Road  
Cleveland, Ohio 44145  
(216) 899-0010

FAX: (216) 892-1404

Founded: 1981

Standards Staff: 3

Type of Organization

Trade Association.  
Standards Developer.

Standards Designation

ANSI B7.5.

Scope

Membership consists of manufacturers of conventional abrasive blades, masonry saws, concrete saws, diamond wheels, and others.

Standardization Activities

Develops safety standards for the use of masonry and concrete saws. Works with ANSI and promulgates its documents through the Grinding Wheel Institute's Accredited Standards Committee B7.

Developed the ANSI Safety Code for The Construction Use and Care of Gasoline Powered, Hand Held, Portable, Abrasive, Cutting Off Machines.

Availability	Distributed directly and through ANSI.
Keywords	abrasive blades; diamond wheels; masonry saws; concrete; industrial equipment;

#### MATERIAL HANDLING INDUSTRY

	A.L. Leffler, Chief Executive Officer
	8720 Red Oak Boulevard, Suite 201 Charlotte, North Carolina 28217 (704) 522-8644 FAX: (704) 522-7826
	Founded: 1945 Standards Staff: 5
Type of Organization	Trade Association. Standards Developer.
Representation	ANSI.
Secretariats	(Under ANSI) ISO/TC 122.
Scope	Represents approximately 600 manufacturers of industrial material handling equipment used in plants, plant-yards, piers, terminals, and warehouses.
Standardization Activities	Product Sections, through Engineering Committees, develop source material for adoption as American National Standards under the canvass procedure of the American National Standards Institute.
Availability	Through ANSI.
Formerly	Material Handling Institute
Keywords	material handling; industrial equipment;

#### MATERIALS AND METHODS STANDARDS ASSOCIATION

	Harvey J. Powell, President
	Post Office Box 350 Grand Haven, Michigan 49417 (616) 842-7844 FAX: (616) 842-1547 Founded: 1962 Standards Staff: 5
Type of Organization	Trade Association. Standards Developer.

Standards Development	45 members active in standards development.
Scope	Establishes standards of quality and performance of materials and methods for installation and use of ceramic tiles.
Standardization Activities	Member of ANSI A108 and ANSI A137-1 Committees; member of Tile Council of America Handbook for Ceramic Tile Installation Committee; issues bulletins on the installation of ceramic tiles.
Availability	Distributed directly.
Formerly	Methods and Materials Standards Association
Keywords	tile; mortar; building; materials; ceramic products;

#### MECHANICAL CONTRACTORS ASSOCIATION OF AMERICA

James R. Noble, Executive Vice President

1385 Piccard Drive

Rockville, Maryland 20850

(301) 774-1878

FAX: (301) 990-9690

Founded: 1889

Type of Organization	Trade Association. Works through other organizations to develop standards.
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Scope	A construction trade association of 1400 firms employing approximately 150 000 persons. Members build and service systems that move both liquid and gas fluids. These mechanical contractors fabricate and install heating, ventilating, air conditioning, plumbing, and process piping systems in multi-residential, commercial, public industrial, and institutional facilities.
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Standardization Activities	Participates in national standards development with American National Standards Institute (ANSI); American Society of Mechanical Engineers (ASME); National Safety Council (NSC); American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE); American Welding Society (AWS); for development of consensus standards related to heating, ventilating, air conditioning (HVAC), plumbing, piping, welding, safety, and other construction-related topics. MCAA is a co-sponsor of ANSI A40, Safety Requirements for Plumbing.
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Keywords	heating; piping; ventilating; air-conditioning; plumbing; welding; safety; construction; building;
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## MECHANICAL POWER TRANSMISSION ASSOCIATION

Robert A. Reinfried, Executive Director

9384-D Forrestwood Lane  
Manassas, Virginia 22110  
(703) 330-7079  
Founded: 1933

FAX: (703) 330-7984  
Standards Staff: 1

### Type of Organization

Trade Association.  
Standards Developer.

### Standards Development

Standards developer since 1936.  
Thirteen member companies participate in standards activities.  
Standards processed through ANSI.

### Standards Designation

MPTA and RMA/MPTA prefixes.

### Scope

Manufacturers of multiple V-belt drive sheaves for mechanical  
power transmission machinery.

### Standardization Activities

Concerned with the development of standards and other  
programs concerning V-belt drive systems and devices, variable  
speed drives, synchronous drives, and other belt drives.  
Maintains liaison with the Rubber Manufacturers Association.  
V-belt and synchronous drive standards are developed in liaison  
with RMA.

### Availability

V-belt drive standards are available through RMA.

### Formerly

Multiple V-Belt Drive and Mechanical Power Transmission  
Association

### Keywords

belt drives; machinery; industrial equipment;

## METAL BUILDING MANUFACTURERS ASSOCIATION

Charles M. Stockinger, General Manager

1300 Sumner Avenue  
Cleveland, Ohio 44115-2851  
(216) 241-7333

FAX: (216) 241-0105

Founded: 1956

Standards Staff: 3

### Type of Organization

Trade Association.  
Standards Developer.

<b>Scope</b>	Promotes the uses of metal buildings; deals with technical and trade promotional problems pertinent to the industry; compiles and publishes information of benefit to the industry and others interested in metal buildings; cooperates in the adoption and maintenance of standards for metal buildings.
<b>Standardization Activities</b>	A Technical Committee prepares recommendations concerning such projects as methods used in application of design loads, recommended minimum thicknesses of steel used in manufacturing metal buildings in order to assure proper service, and other general recommendations for use by model code bodies in preparing or revising these codes to have properly constructed metal buildings. Works in conjunction with the American Iron and Steel Institute, model code bodies, the American Institute of Steel Construction, and other code committees to assure users that proper installations are made.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	metal buildings; building; structures;

**METAL LADDER MANUFACTURERS ASSOCIATION**

	R. L. Werner, Secretary
	P.O. Box 580, Osgood Road Greenville, Pennsylvania 16125 (412) 588-8600
	Founded: 1949
<b>Type of Organization</b>	Trade Association. Standards Developer.
<b>Scope</b>	Manufacturers of light metal ladder products. Promotes standardization and simplification of products, sizes, and dimensions to eliminate waste and reduce cost. Conducts safety research.
<b>Standardization Activities</b>	Works on ANSI code committees for ladders, stages, and scaffolds. Promulgates safety standards pertaining to products manufactured by its members. Active on ANSI committees for portable metal ladders; mobile scaffolds, ladder towers and telescopic work platforms; construction code; and temporary scaffolding.

Availability Sold directly and through ANSI.

Keywords metal ladders; ladders; planks; scaffolds; industrial equipment; consumer products;

#### METAL POWDER INDUSTRIES FEDERATION

Donald G. White, Executive Director

105 College Road East  
Princeton, New Jersey 08540-6692  
(609) 452-7700 FAX: (609) 987-8523

Founded: 1945 Standards Staff: 3

Type of Trade Association.  
Organization Standards Developer.

Standards More than 100 active standards.  
Development One processed through ANSI.

Scope Serves technical and trade interests of metal powder producing and consuming industries. Composed of the Metal Powder Producers Association, Powder Metallurgy Parts Association, Powder Metallurgy Equipment Association, Refractory Metals Association, Metal Powder Technology Association and Metal Injection Molding Association.

Standardization Issues materials and test standards in the field of  
Activities power metallurgy dealing with ferrous and nonferrous materials, including self-lubricating bearings metal injection mold products and industry practices. Jointly issues safety standard for metal powder compacting presses with ANSI. Maintains a Standards Board and four standards committees to coordinate its activities. Reviews federal specifications issued by the General Services Administration. Participates on ISO Committee TC 119; ASTM; and SAE; and AGMA powder metal committee 4f; Metal Powder, and Metal Powder Products.

Availability Distributed directly.

Formerly Metal Powder Association (1957)

Keywords metal powder; powder metallurgy; metallurgy; materials; bearings; compacting presses; metal injection molding;

METAL TREATING INSTITUTE

M. Lance Miller, Executive Director

302 Third Street  
Suite One  
Neptune Beach, Florida 32233  
(904) 249-0448 FAX: (904) 249-0459  
e-mail: metaltreat@aol.com

Founded: 1933 Standards Staff: 2

Type of  
Organization

Trade Association.  
Standards Developer.

Standards  
Development

Standards developer since 1975.  
None processed through ANSI.

Standards  
Designation

MTI-2000, Quality Assurance Specification for  
Performance of Heat Treating Processes.

Scope

Firms engaged in commercial heating of metals, tools, and other  
metal products. Conducts regional and national meetings for  
exchange of information; acts for its members in national affairs  
affecting the industry.

Standardization  
Activities

Prepared a set of quality assurance standards which  
outlines a standard of good process and equipment control and  
provides customers with specific and meaningful criteria for  
comparing or evaluating equipment, processes, process controls,  
and record keeping systems in the heat treating facility where  
this standard is employed. Also provides procedures which  
establish a measure of uniformity among its users so that customer  
surveys may be made more quickly with better comparability and  
consistency.

Availability

Sold directly.

Keywords

metal treating; heat treating; manufacturing; materials;

MONORAIL MANUFACTURERS ASSOCIATION

Claude G. Carraux, Managing Director

8720 Red Oak Boulevard  
Suite 201  
Charlotte, North Carolina 28217  
(704) 522-8644 FAX: (704) 522-7826

Founded: 1933 Standards Staff: 2

Type of Organization	Trade Association. Standards Developer.
Standards Development	Standards Developer since 1933. Ten member companies participate in standards activities. Two active standards; both processed through ANSI.
Standards Designation	ANSI MH27.1 and ANSI B30.11.
Scope	Manufacturers of overhead, underhung, material handling equipment including monorails, stacker cranes, and underhung traveling cranes.
Standardization Activities	Works with ASME, ANSI, American Welding Society, American Foundrymen's Society, and others to develop design and safety standards and specifications for underhung cranes and monorail systems.
Availability	Sold directly and through ANSI.
Keywords	monorail; underhung crane; industrial equipment;

#### MULTI-HOUSING LAUNDRY ASSOCIATION

David L. Goldenberg  
  
4101 Lake Boone Trail  
Suite 201  
Raleigh, North Carolina 27607  
(919) 787-5181 FAX: (919) 787-4916  
  
Founded: 1959

Type of Organization	Trade Association. Works through other organizations to develop standards.
Representation	ANSI, the International Conference of Building Officials (ICBO), the Building Officials Code Administrator (BOCA), the Southern Building Code Congress (SBCCI), the International Association of Plumbing and Mechanical Officials (IAPMO), and the U.S. Department of Housing and Urban Development.
Standards Development	MLA first began working on the development of standards in 1968 when, in conjunction with the U.S. Federal Housing Administration's Office of Technical Standards, Department of Housing and Urban Development, they developed and published a Laundry Guide, that set out technical standards and recommendations for location, design and layout of common area



laundry rooms in multi-family housing. MLA members are involved in four active standard: American National Standard on Accessible and Useable Buildings and Facilities, CABO/ANSI A117.1; Fair Housing Accessibility Guidelines issued by the Department of Housing and Urban Development; MLA Laundry Guide; and Plumbing Codes developed by IAPMO, ICBO, BOCA and SBCCI.

**Government  
Adoption**

Standards and recommendations on standards are submitted to federal agencies with regulatory authority over housing, including the Department of Housing and Urban Development and the Architectural and Transportation Barriers Compliance Board.

**Certification**

No certification, qualification or accreditation programs

**Scope**

MLA is an association of approximately 100 companies that purchase, install and service laundry room equipment in a variety of multi-family dwellings, including apartment buildings, military bases and college dormitories. MLA serves its members by collecting and disseminating information about significant developments in products, equipment, laundry room design, legal and management issues relevant to improving the quality of the services provided by association members. This work has included participation in the development of guidelines and standards that pertain to laundry room design and management.

**Standardization  
Activities**

MLA works with other standards setting organizations, including ANSI, and federal and state government agencies, to evaluate, provide technical advice and recommendations on standards for design, layout and management of common area laundry rooms in multi-family housing facilities.

**Availability**

Distributed directly.

**Formerly**

National Association of Coin Laundry Equipment Operators, Inc.

**Keywords**

laundry; clothes; washer; washing machine; dryer;

NACE INTERNATIONAL

Helena Buist, Director, Technical Activities Division

P.O. Box 218340

Houston, Texas 77218

(713) 492-0535

FAX: (713) 492-8254

e-mail: 75357,243@compuserve.com

Founded: 1943

Standards Staff: 5

Type of  
Organization

Technical Society  
Standards Developer

Standards  
Development

Standards developer since 1969.  
3300 members participating in standards activities.  
100 active standards, conversion to metric ongoing.  
3 processed through ANSI.  
Draft standards available for review to members.

Standards  
Designation

NACE MR, Material Requirement (such as MRO175).  
NACE TM, Test Methods (such as TMO284).  
NACE RP, Recommended Practice (such as RPO285).  
NACE EG, Emergency Guideline (such as EG-1).

Government  
Adoption

Several standards are referenced in state and federal regulations.

Certification

Professional recognition program with five categories, each of which is designed to recognize levels in corrosion work; one category is for coating inspectors (certification program is not directly tied to standards program).

Secretariats

U.S. Technical Advisory Group, ISO/TC 35/SC 12, Preparation of Steel Surfaces before Application of Paint and Related Products, and ISO/TC 35/SC 14 on Anti-Corrosive Paint Systems for Steel Structures.

Scope

Assists the public and industrial communities to conserve energy and materials through corrosion control and materials selection. Provides a forum for the presentation of new technology and evaluation of existing technology; publishes literature and software concerned with the science and engineering of corrosion; supports the needs of other learned societies by supplying information regarding the science and engineering of corrosion control and materials selection; establishes and publishes technical standards and practices to guide producer and user industries; promotes the recognition of corrosion engineering as a profession by means of education, accreditation, and certification programs.

Standardization Activities	<p>Standardization activities accomplished through approximately 350 technical committees which are composed of representatives from industries in which corrosion is a problem. Identifies corrosion problems and solutions and assembles information to define the problems. Develops standards which are reviewed by interested industry parties. Standards represent a consensus of persons substantially concerned with their subjects.</p> <p>Makes concerted efforts to involve other technical societies in relevant standardization activities through formal liaison.</p> <p>Primary focus on standardization has been related to development of performance standards. Standards have been proposed regarding performance (resistance to corrosion) of offshore steel platforms, performance of cathodic protection systems, and performance of materials in corrosive environments.</p>
Availability	Distributed directly, and through IHS, CSS, and American Technical Publishers.
Formerly	National Association of Corrosion Engineers (1994)
Keywords	corrosion; materials; coatings; pipeline;

NATIONAL AIR DUCT CLEANERS ASSOCIATION

	<p>Kenneth M. Sufka,Executive Director</p> <p>1518 K Street, NW Suite 503 Washington, DC 20005 (202) 737-2926</p> <p>Founded: 1989</p>	<p>FAX: (202) 347-8847</p> <p>Standards Staff: 4</p>
Type of Organization	Trade Association Standards Developer	
Standards Development	Standards Developer since 1989. Association Standards Council consists of five Project Committees.	
Standards Designation	NADCA Standard 1992--1, Mechanical Cleaning of Non-Porous Air Conveyance System Components.	
Government Adoption	Widely specified in Army, Navy and other government agency project specifications	

<b>Scope</b>	A nonprofit organization of qualified HVAC system cleaning companies. Promotes professional standards for the industry and public education of the dangers of poor indoor air quality. Represents its membership at national and international levels.
<b>Standardization Activities</b>	Activities directed toward fulfilling the minimum requirements for total HVAC system cleaning. NADCA Standard 1992-01 (performance standard for the HVAC system cleaning industry) is currently the only standard addressing HVAC system hygiene.
<b>Availability</b>	Sold directly.
<b>Keywords</b>	HVAC systems; air handling; mechanical hygiene; air duct cleaning;

#### NATIONAL ARBORIST ASSOCIATION

	Robert Felix, Executive Vice President
	Route 101, Box 1094
	Amherst, New Hampshire 03031-1094
	(603) 673-3311 FAX: (603) 672-2613
	e-mail: 76142.463@COMPUSERVE.COM
	Founded: 1938 Standards Staff: 2
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Secretariat</b>	ANSI A300, American National Standard for Tree Care Operations - Tree, Shrub and Other Woody Plant Maintenance - Standard Practices.
<b>Scope</b>	A trade association of more than 1000 commercial tree service firms. A strong supporter of the voluntary standards system.
<b>Standardization Activities</b>	Instrumental in the development of ANSI Z133.1, American National Standard for Tree Care Operations - Pruning, Trimming, Repairing, Maintaining, and Removing Trees, and Cutting Brush - Safety Requirements, and all five of its revisions.
<b>Keywords</b>	trees; safety;

**NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS**

	A. L. Sisco, Executive Vice President
	11 South Lasalle Street Suite 1400 Chicago, Illinois 60603 (312) 201-0101
	FAX: (312) 201-0214
	Founded: 1937
	Standards Staff: 2
Type of Organization	Trade Association Standards Developer
Standards Development	Eleven standards Two processed through ANSI.
Standards Designation	NAAAMM Standard, NAAAMM Recommended Voluntary Standard, ANSI/NAAAMM prefix.
Scope	A nationwide association of fabricators of architectural, commercial, residential, ornamental, miscellaneous, and hollow metal products. Promotes mutual interests and cooperation among members of industry; promotes educational and informational activities; compiles and disseminates statistics; furnishes technical information to architects and engineers; maintains and improves technical standards of the industry; conducts studies and surveys to increase the use of the markets for industry products; promotes and assists in the development of new products.
Standardization Activities	Five divisions active in standards activities including Architectural Metal Products Division, Flagpole Division, Hollow Metal Manufacturers Association Division, Metal Bar Grating Division, and Metal Lath/Steel Framing Association Division. Voluntary standards and specifications developed for metal stairs, metal stair railings, pipe railings, flagpoles, hollow metal doors and frames, metal bar grating, metal lath and plaster assemblies and lightgage steel framing which are widely accepted by architects, engineers, specification writers, code groups, and government agencies.  Publishes the Metal Stair Manual, Metal Finishes Manual, Pipe Railing Manual, Metal Flagpole Manual, Guide Specification for Design Loads of Metal Flagpoles, Hollow Metal Manual, Metal Bar Grating Manual, Heavy Duty Metal Bar Grating Manual, Welding Standard for Fabrication of Metal Bar Grating, Specifications for Metal Lathing & Furring and Lightweight Steel Framing Systems Manual. Also revises and updates standards on a regular basis. Also provides representation to ASTM committees where appropriate to the development of performance and testing standards.



Availability	Distributed directly.
Formerly	National Association of Ornamental Metal Manufacturers. Absorbed the National Steel Door and Frame Association (1962)
Keywords	architectural metals; stairs; railings; bar-gratings; flagpoles; doors; door frames; building; light gauge steel framing; metal lath;

#### NATIONAL ASSOCIATION OF BROADCASTERS

	Lynn Claudy, Vice President - Science & Technology
	1771 N Street NW. Washington, DC 20036 (202) 429-5346 FAX: (202) 775-4981
	Founded: 1922 Standards Staff: 2
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1941.
Standards Designation	NAB and NARTB prefixes.
Certification	No certification, qualification, or accreditation programs
Secretariats	NAB is the secretariat of the Advanced Television Systems Committee whose purpose is to coordinate the development of voluntary national standards for Advanced Television Systems in the United States. NAB is also secretariat of the National Radio Systems Committee (NRSC) whose purpose is to better the relationship between broadcasters and radio receiver manufacturers through technical improvements.
Scope	Represents membership of 5000 radio and over 900 television stations, including the major networks. Represents the industry before Congress, the White House, and federal regulatory agencies.
Standardization Activities	Maintains standards committees regarding the retention and review of existing NAB standards and practices. As a member of the Joint Committee on Inter-Society Coordination composed of the NAB, EIA, IEEE, NCTA, and SMPTE, the NAB participates in many

standards setting committees representing broadcasters and broadcasting interests. Standards pertain to radio and television technical improvements, and producing test records and CDS.

**Availability**

Distributed directly.

**Formerly**

National Association of Radio and Television Broadcasters (NARTB)  
(1951-1957)

**Keywords**

disc recording; tape recording; cartridge tape; cassette tape; broadcast; advanced television systems; NRSC; AM engineering; FM engineering; technical improvement; communications;

**NATIONAL ASSOCIATION OF CHAIN MANUFACTURERS**

William F. Westerhold, Director

P O Box 3143  
York, Pennsylvania 17402  
(717) 840-1304

Founded: 1932

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Eight manufacturers of welded chain, weldless chain, and tire chains. In addition to standardization, the Association promotes the use of chain and serves as a liaison in contacts with technical and professional groups and federal governmental agencies.

**Standardization  
Activities**

The Association has two committees involved in various aspects of standards development and coordination. Along with development of industry standards, members of these groups serve on various standards setting bodies including ASTM, ASME, and others.

**Formerly**

The Chain Institute

**Keywords**

chain; tire chains; industrial equipment; transportation;

## NATIONAL ASSOCIATION OF COUNTY ENGINEERS

Anthony R. Giancola, Executive Director

440 First Street, NW

Washington, DC 20001

(202) 393-5041

FAX: (202) 393-2630

e-mail: tonyg@spaceworks.com

Founded: 1956

Standards Staff: 2

### Type of Organization

Professional Society  
Standards Developer

### Scope

Identifies various technical and management problems common to most counties and documents their solutions. Conducts workshops and holds a Management Research Conference annually. Affiliated with the National Association of Counties.

### Standardization Activities

Publishes Action Guide Manuals which emphasize guidelines for county engineering management and procedures for simplified engineering and technical analysis. Subjects include: organization-personnel purchasing; cost records; advanced road programs; county planning; planning county road systems; solid waste management; traffic operations; maintenance management; public support; safety improvements; soils and sub soil conditions, pavement; and bridge management; maintenance; rehabilitation; purchasing; bridge inspection; soil erosion and water pollution prevention; aerial photography; drainage; travel generation; and subsurface soils exploration. Works closely with federal departments, the Transportation Research Board, and state agencies.

### Availability

Distributed directly.

### Keywords

county; government officials; construction; transportation; management;

## NATIONAL ASSOCIATION OF GARAGE DOOR MANUFACTURERS

John H. Addinton, Executive Director

1300 Sumner Avenue

Cleveland, Ohio 44115-2851

(216) 241-7333

FAX: (216) 241-0105

Founded: 1968

Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	Six active standards. Two processed through ANSI.
Scope	Promotes the quality and safety of sectional overhead type doors.
Standardization Activities	Developed American National Standard, A216.1-1977 (NAGDM 102-1976), Specifications for Sectional Overhead Type Doors. Standard includes performance criteria and test methods for acceptable safety, quality, and durability of sectional overhead type doors intended for residential use and commercial or industrial use on garages, warehouses, service stations, and other places requiring doors generally used for vehicular traffic.
Availability	Distributed directly and through ANSI.
Formerly	Midwest Garage Door Manufacturers Association (1972)
Keywords	doors; overhead doors; buildings;

#### NATIONAL ASSOCIATION OF GRAPHIC AND PRODUCT IDENTIFICATION MANUFACTURERS

James A. Kinder, Executive Vice President

17300 Redhill Avenue  
Suite 100

Irvine, California 92714  
(714) 261-9588

FAX: (714) 261-2594

Founded: 1951

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1969.
Standards Designation	Nameplate Industry Standards and Practices.
Government Adoption	Military Specifications for nameplates
Scope	Membership accounts for approximately two-thirds of the total business volume of the name plate manufacturing industry in the United States. The term "name plate" refers to any metal or plastic plate that has been etched, embossed, stamped, engraved,

or imprinted and which is fastened to another object for purposes of identification, instruction, or decoration.

**Standardization  
Activities**

Standards represent a relatively small but highly significant portion of the association's activities. In 1969 published Metal Name Plate Industry Standards and Practices, which was updated in 1987 under the name of Name Plate Industry Standards and Practices. This book is the only set of standards in existence for the industry in the United States. Among the subject areas covered are: nomenclature, finishes, fabrication tolerances, materials, fastening methods, inspection, reject procedure, delivery, and equipment preparation. Copies have been distributed throughout the industry and to customers of the industry in both private and public sectors for their information and use in writing specifications. The Book of Standards Committee is responsible for compiling and coordinating changes.

**Availability**

Available to GPI members only.

**Formerly**

National Association of Name Plate Manufacturers  
National Association of Metal Nameplate Manufactures (1968)

**Keywords**

nameplates; industrial equipment; office products; household appliances;

**NATIONAL ASSOCIATION OF HOSIERY MANUFACTURERS**

Sid Smith, President and CEO

200 North Sharon Amity Road  
Charlotte, North Carolina 28211  
(704) 365-0913 FAX: (704) 362-2056

Founded: 1905 Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

Commercial Standards, CS prefix.

**Scope**

Composed of manufacturers who knit or otherwise process hosiery of any type. Develops standards for hosiery sizing, measurement, performance, and quality.

**Standardization  
Activities**

Active in technical research leading to standards concerning size systems and terminology for various types of hosiery. NAHM Sizing Standard is an industry standard using body measurements for the sizing of men's, women's, and children's knee-high and shorter hosiery. Developed a simple method for use



in describing women's pantyhose in order to provide wearers with proper fitting garments. Instrumental in developing measurement standards.

**Availability**

Distributed directly.

**Keywords**

sizes; hosiery; clothing; consumer products;

**NATIONAL ASSOCIATION OF INDUSTRIAL AND OFFICE PROPERTIES**

Thomas J. Bisacquino, Executive Vice President

2201 Cooperative Way

3rd Floor

Herndon, Virginia 22071-3034

(703) 904-7100

FAX: (703) 904-7942

Founded: 1967

Standards Staff: 1

**Type of  
Organization**

Trade Association

Works through other organizations to develop standards

**Scope**

The National Association of Industrial and Office Properties (NAIOP) is the trade association for developers, owners, and investors in industrial, office and related commercial real estate. Founded in 1967, NAIOP is comprised of 5000 members in 51 North American chapters and offers its members business and networking opportunities, education programs, research on trends and innovations and strong legislative representation.

**Standardization  
Activities**

Cooperates to develop and utilize standards in the areas of paved streets, utility systems for multiple users, setback or percentage coverage requirements, landscaping, offstreet parking, and architectural control.

**Formerly**

National Association of Industrial and Office Parks

**Keywords**

industrial parks; office parks; building; construction; facilities management;

**NATIONAL ASSOCIATION OF JEWELRY APPRAISERS**

James V. Jolliff, Executive Director

Post Office Box 6558

Annapolis, Maryland 21401

(301) 261-8270

Founded: 1981

Standards Staff: 3

Type of Organization	Professional Association Standards Developer
Standards Development	Developer of Jewelry Appraisal Standards since 1981 600 members participating in standards activities related to minimum criteria in writing narrative appraisal reports.
Certification	Certification of qualified and accredited member appraisers. Correspondence course and testing of Certified Master Appraisal credential.
Scope	A professional association exclusively devoted to the jewelry appraisal profession. The association functions on a national and international basis. Works to disseminate information through educational programs, improve methods of appraisal valuation, and share opinions on areas of common interest.
Standardization Activities	The standardization activities of the association are directed toward user-defined requirements for the industry and those who require a professional opinion as to value. They are provided to members only.  Major activities include educational programs, Appraisal Forms, Related Work Sheets, and Terminology. New areas of standards which are applicable to the industry are being developed and reviewed.
Availability	Distributed directly to members only.
Keywords	jewelry appraisers; gems; diamonds; gemology; consumer products; gemological instruments and equipment;

#### NATIONAL ASSOCIATION OF MANUFACTURING OPTICIANS

William J. Flannery III, President

R. R. 2, Box 35 Q  
Rockwall, Texas 75087  
(214) 771-8848

FAX: (214) 722-8484

Founded: 1975

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Scope	A nonprofit trade association of individuals and businesses engaged in the manufacture and production of prescription eyewear or related ophthalmic goods and services.

Standardization Activities	Dedicated to standards development through regulation, legislation, and education of the public. Cooperates with ANSI, the Total Ophthalmic Community Conference, ISO. Developed a bar code for optical products.
Availability	Distributed directly.
Keywords	ophthalmology; optician; optics; ophthalmic products;

NATIONAL ASSOCIATION OF PHOTOGRAPHIC MANUFACTURERS

Eduard R. Scherrer, Director - International Standards

Founded: 1946 Standards Staff: 1 full-time  
3 part-time

Standards	526 members active in standards development.
Development	189 active international standards.
	285 ANSI approved standards.
	ANSI accredited organization.

Standards	ASC/PH prefix.
Designation	ASC/IT prefix.
	ANSI/NAPM IT.

**Secretariats**

NAPM/IT 1, Photographic Films, Plates, and Papers  
NAPM/IT 2, Image Evaluation  
NAPM/IT 3, Photographic Equipment  
NAPM/IT 4, Photographic Processing  
NAPM/IT 7, Instructional Audiovisual Systems Standards  
NAPM/IT 9, Physical Properties and Permanence of Imaging  
Materials  
NAPM/IT 10, Electronic Still Picture Imaging  
NAPM/TC 11, Optics and Optical Instruments  
NAPM/TC 12, Imaging Materials Recyclability  
ISO/TC 42, Photography  
U.S. Technical Advisory Group ISO/TC 42  
U.S. Technical Advisory Group ISO/TC 172

Scope	An association for manufacturers of image technology products. Promotes and encourages a wider understanding and appreciation of image technology, and a greater use of image technology products worldwide.
Standardization Activities	<p>Promotes standardization of all photographic products, and methods of testing product performance. Ensures interchangeability and compatibility of photographic components and materials.</p> <p>NAPM is an ANSI Accredited Standards Development Organization under the ANSI Organization Method. It provides the Secretariat support for nine Technical Committees involved in the development of National standards primarily in the field of imaging through photo-chemical, electronic and hybrid technologies. This includes all related system aspects of imaging and media and includes interfacing, transcoding and accompanying signals.</p> <p>NAPM also acts as the Secretariat for the International Organization for Standardization (ISO) Technical Committee 42 on Photography. In addition, NAPM sponsors the United States Technical Advisory Groups (TAGs) responsible for developing the United States national body positions for input to ISO/TC 42 and ISO/TC 172 on Optics and Optical Instruments.</p> <p>The overall standards program is managed by the NAPM Standards Advisory Committee (SAC) which reports directly to the NAPM Board of Directors.</p> <p>International activities include developing international photographic standards under ISO procedures, and maintaining close liaison with other international standards developing organizations in allied fields. Promotes participation in the activities of the International Electrotechnical Commission (IEC) through NAPM's domestic and international standards committee secretariats.</p>
Availability	<p>Draft standards distributed directly.</p> <p>Published standards distributed through ANSI.</p>
Keywords	image technology; photography; photographic products; photographic optics; x-ray; film; photographic accessories; electronic imaging;

# NATIONAL ASSOCIATION OF PIPE COATING APPLICATORS

Merritt B. Chastain, Jr., Managing Director

Commercial National Bank Building  
333 Texas Street  
Suite 717  
Shreveport, Louisiana 71101-3666  
(318) 227-2769 FAX: (318) 222-0482

Founded: 1965 Standards Staff: 8

## Type of Organization

Trade Association  
Standards Developer

## Standards Development

Standards developer since 1965  
One hundred twenty companies participate in standards  
activities; continuously reviewed and revised.  
None processed through ANSI.  
Draft standards available for review by members.

## Standards Designation

NAPCA Bulletin.

## Scope

The trade association for the plant pipe coating application industry. Comprised of companies engaged in application of protective coatings to steel pipe in permanent plants and those engaged in the manufacture or sale of materials, supplies, equipment, or services, and those utilizing coating products. Promotes the general welfare of the industry, stimulates the use of coating and related materials, standardizes and improves specifications and materials, aids consumers and manufacturers in their coating material research, cooperates with other industries and organizations, and disseminates information to its members, its customers and the public.

## Standardization Activities

Develops and revises pipe coating application specifications, standards, and suggested procedures. Publishes Pocket Edition of National Association of Pipe Coating Applicators Specifications and Plant Coating Guide which contains all current and revised specifications. Most recent revisions completed in 1994.

## Availability

Distributed directly.

## Keywords

pipe coating; corrosion protection; insulation; coating; construction;



# NATIONAL ASSOCIATION OF PLUMBING-HEATING-COOLING CONTRACTORS

Allen Inlow, Chief Executive Officer

180 South Washington Street  
Post Office Box 6808  
Falls Church, Virginia 22046-1148  
(703) 237-8100 FAX: (703) 237-7442

Founded: 1883

Standards Staff: 2

## Type of Organization

Trade Association  
Standards Developer

## Standards Development

In addition to publishing and maintaining the National Standard Plumbing Code (NSPC) the NAPHCC participates in many national consensus committees (i.e., Fuel Gas Code, Backflow Prevention, and other related activities) for the continued development of safe and sanitary plumbing and mechanical systems.

## Representation

ANSI Committees A119, B16, B31; Z223, Fuel Gas Code; ASTM, IAPMO, GSA, and UL

## Government Adoption

The NSPC is adopted and referenced by many federal agencies, including but not limited to the Department of Housing and Urban Development, the Army Corps of Engineers, the Department of Navy, and other agencies promulgating the use of construction standards.

## Secretariats

Co-secretary of ANSI accredited committee A40, Safety Requirements for Plumbing.

## Scope

The scope of the NSPC and ANSI A40 Plumbing Codes stipulate in part: "The development of a recommended code of plumbing practice, design, and installation, including the establishment of performance criteria predicated on the need for protection of health and safety through proper design, installation, and maintenance of plumbing systems. This scope excludes the development of specific standards related to the composition, dimensions, and/or mechanical and physical properties of materials, fixtures, devices, and equipment used or installed in plumbing systems."

## Standardization Activities

The NAPHCC standards activities include the development and maintenance of a consensus plumbing code, including the technical and administrative support of the consensus committee.

## Availability

Sold directly and through ANSI.

Formerly                      National Association of Master Plumbers (1962)

Keywords                     plumbing; heating; air-conditioning; sanitation and safety;

**NATIONAL ASSOCIATION OF PUNCH MANUFACTURERS**

Alan M. Hamilton, Executive Secretary

7402 Chestnut Ridge Road  
Lockport, New York 14094  
(716) 433-2917                      FAX: (716) 433-2917

Founded: 1963                      Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Started to develop standards in 1963.  
22 participating members.  
31 standards, 18 inch-based and 13 metric.  
All are processed through ANSI.  
Draft standards are available through ASME and ANSI.

**Standards  
Designation**

ANSI B94.x.

**Certification**

None.

**Scope**

Devoted to standardization of all punches, dies, and retainers used in custom made dies by various companies for the stamping industry. Piercing components are chosen for standardization and standards developed, then are recommended to American Society of Mechanical Engineers International for review, approval and recommendation to American National Standards Institute. ANSI piercing components standards are used by North American die building and stamping industries.

**Standardization  
Activities**

Piercing components for custom made stamping dies are chosen for standardization. The NAPM Standards Committee then researches common usage and determines the best range of sizes and tolerances to fit the users' requirements. These standard recommendations are presented to B-94 of ASME International for circulation to a wide range of makers and users. There are 31 standards in the inch and metric systems in use for present day usage. These standards are available to ISO for international usage.

**Availability** Available through ANSI.

**Keywords** punches; tools; die components;

#### **NATIONAL ASSOCIATION OF PURCHASING MANAGEMENT**

R. Jerry Baker, Executive Vice President

2055 East Centennial Circle  
Post Office Box 22160 - 85284  
Tempe, Arizona 85285-2160  
(602) 752-6276 FAX: (602) 752-7890  
WWW: <http://www.NAPM.org>

Founded: 1915

**Type of Organization** Educational and Research Association  
Works through other organizations to develop standards

**Scope** Provides national and international leadership in purchasing and materials management research and education. Provides opportunities for expansion of professional skill and knowledge. Encourages public understanding of the purchasing and materials management concepts.

**Standardization Activities** Promulgates standards through company standardization programs. Sponsors educational programs which are related to the broad field of standardization and simplification. In an effort to further advance sound principles of purchasing and to elevate the purchasing profession.

**Formerly** National Association of Purchasing Agents (1968)

**Keywords** purchasing; materials management; business;

#### **NATIONAL ASSOCIATION OF RELAY MANUFACTURERS**

D.E. Dangott, Executive Director

9459 N. Broadmoor Road  
Milwaukee, Wisconsin 53217  
(414) 351-4548 FAX: (414) 351-4548

Founded: 1947 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

Scope	Promotes the standardization of terminology and test procedures in the manufacture and uses of relays. Annually sponsors a National Relay Conference to provide engineers and specialists concerned with relays the opportunity to present results of their technical investigations to representatives of prominent relay manufacturers, users, and academicians.
Standardization Activities	Maintains standards committees which coordinate member activities with relay users and Government agencies in establishing specifications for relays. Cooperates with Electronic Industries Association and others to write standards for reed switches, solid state relays, and all types of electro-mechanical and hybrid relays. Develops other specifications for low carbon and silicon steels, and EMI iron for use in magnetic circuits for relays. Publishes Engineers Relay Handbook which contains specifications relating to terminology and test procedures 5th edition 1996. It is an all-encompassing engineering reference source, covering all relays from electromechanical to hybrid and solid state. Also publishes a booklet, Definitions of Relay Terms. Annually publishes technical proceedings.
Availability	Distributed directly.
Keywords	relays; electrical equipment;

#### NATIONAL ASSOCIATION OF ROCKETRY

	James P. Miller, President
	1311 Edgewood Drive Altoona, Wisconsin 54720 (715) 834-8074
	Founded: 1958
	Standards Staff: 4
Type of Organization	Scientific Society Standards Developer
Standards Development	Standards developer since 1958. 10 manufacturers participate in standards activities. 2 active standards.
Government Adoption	48 state governments use NAR Safety Certification as a prerequisite for sale.
Certification	Certifies model rocket motors for safety prior to their sale in 48 states. Certification is based upon the reliability of the motors, casing temperatures, and the total impulse. Contest certifies model rocket motors prior to their use in Association sanctioned contests.

Recertifies model rocket motors every third year. Established a random sampling program to spot check motors for sale to consumers on hobby shop shelves. Maintains records of motor failures filed by its members, these records are provided to the manufacturers as input for product correction and development.

Scope	A national hobby service organization for model rocketeers. Provides a monthly magazine, technical materials, liability insurance, and education programs for its members. Sanctions local clubs and local contests. Homologates national model rocket flight records. Serves as the U.S. Representative to the FAI CIAM Subcommittee on Space Models where it interacts internationally with other hobby organizations. Chairs the NFPA Committee on Pyrotechnics and works closely with the HIA to monitor state and national hobby legislation.
Standardization Activities	Establishes standards of performance, reliability, and safety which are the basis for the NAR certification program.
Availability	Distributed directly.
Formerly	Model Missiles, Inc. (1958)
Keywords	pyrotechnics; model rockets; aeromodeling; recreation; space models;

#### NATIONAL ASSOCIATION OF STATE TEXTBOOK ADMINISTRATORS

Linda Dierstein, President

Indiana Department of Education  
Textbook Adoptions  
State House, Room 229  
Indianapolis, Indiana 46204  
(317) 232-9127

FAX: (317) 232-9121

Type of Organization	Professional Society Standards Developer
Standards Designation	NASTA prefix.
Scope	Textbook/instructional materials directors of state education agencies responsible for the purchase and distribution of textbooks for schools.



<b>Standardization Activities</b>	Works with an Advisory Committee which develops specifications for hard cover textbooks and non-print materials. Specifications cover margins, uniform labeling, paper, binding, and stitching. Cooperates with BMI (Book Manufacturer's Institute) and AAP (Association of American Publishers) to develop specifications. Publishes Manufacturing Standards and Specifications for Textbooks developed by a commission comprised of NASTA, BMI, and AAP.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	National Association of State Text Book Directors (25 years ago)
<b>Keywords</b>	textbooks; book publishing; education;

**NATIONAL ASSOCIATION OF STORE FIXTURE MANUFACTURERS**

<b>Type of Organization</b>	Klein Merriman, Executive Director  1776 N. Pine Island Road Suite 102 Plantation, Florida 33322 (954) 424-1443	FAX: (954) 473-8268
	Founded: 1956	Standards Staff: 3
<b>Standards Development</b>	Develops specifications for the manufacture of store fixtures.	
<b>Scope</b>	Represents over 500 fixture manufacturers in the United States, Canada and Mexico. The mission of NASFM is to raise the professional, educational and ethical standards of the store fixture manufacturing industry and to promote the value of members' products and services to their customers.	
<b>Standardization Activities</b>	The association publication "Specifications for the Manufacture of Store Fixtures" is periodically reviewed, updated and republished by the association.	
<b>Availability</b>	Distributed directly.	
<b>Keywords</b>	store fixtures; fixtures; retail; displays; merchandising;	

## NATIONAL AUTOMATED CLEARING HOUSE ASSOCIATION

Elliott McEntee, President and CEO

607 Herndon Parkway  
Suite 200  
Herndon, Virginia 22070  
(703) 742-9190

FAX: (703) 787-0996

Founded: 1974

Standards Staff: 3

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards developer since 1974

### Scope

A national trade association involved in developing payments standards for automated clearing house (ACH) transactions. In 1994, the ACH Network processed more than 3 billion transactions for applications such as direct deposit, direct payment preauthorized debits), corporate cash concentration, corporate trade payments, and financial electronic data interchange (EDI), thirty-eight member ACH Associations representing over 14 000 financial institutions. NACHA sponsors the Bankers EDI Council, Bill Payment Council, Cross-Border Council, Electronic Check Council, and the Electronic Benefits Transfer Council.

### Standardization Activities

Involved in developing standards for electronic transfers of funds and information. Develops and maintains rules governing the exchange of ACH transactions. Also, Councils develop issue specific rules, guidelines, and standards for financial EDI, electronic bill payment applications, cross-border ACH payments, electronic check truncation and clearing, and electronic benefits transfers.

### Availability

Distributed directly.

### Keywords

financial; direct deposit; direct payment; preauthorized debits; EDI; electronic bill payment; electronic checks; cross-border payments;

## NATIONAL AUTOMATIC MERCHANDISING ASSOCIATION

Larry M. Eils, Director, Public Health and Safety

20 North Wacker Drive  
Suite 3500  
Chicago, Illinois 60606  
(312) 346-0370

FAX: (312) 704-4140

Founded: 1936

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1959.  
Three standards.

**Standards  
Designation**

NAMA Standard for the Sanitary Design and Construction  
of Food and Beverage Vending Machines (as amended, April, 1990).  
NAMA Vending Industry Data Transfer Standard (as  
amended, April, 1994).  
NAMA International Multi-Drop Bus Interface Standard  
(as amended August, 1994).

**Government  
Adoption**

Adopted by many states, counties and municipalities  
and, by reference, the Army, Air Force, and Navy. Results of  
evaluation activity are recognized nationwide.

**Certification**

Evaluation and testing are conducted by retained consultants.  
Reevaluation is conducted annually.

**Scope**

The national association of the vending and contract food service  
industry. Membership includes national/regional/local operating  
companies, machine manufacturers, distributors, and product sup-  
pliers. Services include legislation, government relations, edu-  
cation, conventions, state affiliate organizations, public rela-  
tions, publications, and public safety.

**Standardization  
Activities**

Maintains a 24-member Automatic Merchandising Health  
Industry Council comprised of representatives from national public  
health associations, state and local regulatory officials, federal  
regulatory and military agencies, vending operators, machine  
manufacturers and suppliers. Recommends to NAMA all administra-  
tive policies and procedures and maintains the Construction  
Standard used in the machine evaluation program. Works with  
Underwriters Laboratories on UL standards 541 and 751.

Maintains a Vending Technology Standards Committee  
comprised of software developers for vending,  
manufacturers of control boards, coin mechanisms, bill  
validators, card readers and vending machines and other  
suppliers of electronic components to the industry.  
Recommends to NAMA what changes need to be made to keep  
the two electronic standards current.

**Availability**

Distributed directly.



<b>Standards</b>	National Board Inspection Code, (an ANSI Standard);
<b>Designation</b>	National Board Boiler Blowoff Equipment; Relieving Capacities of Safety Valves and Relief Valves; Model Boiler and Pressure Vessel Laws.
<b>Certification</b>	States, municipalities, and Canadian provinces that have boiler and pressure vessel laws recognize the National Board inspector's commission and National Board stamping of boilers and pressure vessels as meeting their safety law requirements for new construction. Transfer of such objects between states is facilitated by National Board stamping. Relieving capacities of safety valves and pressure relief valves as certified by the National Board is used by various state, municipal, and provincial jurisdictions to insure adequate volumetric relief of the pressurized medium in event of runaway conditions.
<b>Secretariat</b>	The following ISO Committees: TC 185 Safety Devices for Protection Against Excessive Pressure, TC 11 Boilers and Pressure Vessels, and the National Board Inspection Code (NBIC)
<b>Scope</b>	The National Board of Boiler and Pressure Vessel Inspectors represents the agencies empowered to assure adherence to the ASME Boiler and Pressure Vessel Construction Code and the NBIC. The National Board of Boiler and Pressure Vessel Inspectors' purpose is to promote safety through uniformity in the construction, installation, repair, maintenance, and inspection of boilers and pressure vessels.
<b>Standardization Activities</b>	Promotes in the following areas of standardization: (1) boiler and pressure vessel law enforcement; (2) uniform boiler laws and rules throughout the jurisdiction of its members; (3) uniform qualifications for boiler and pressure vessel inspectors; (4) uniform stamping of boilers and pressure vessels that are inspected during construction by such boiler and pressure inspectors who hold valid National Board Commissions; and (5) uniform relieving capacity ratings of safety valves and pressure relief valves for boiler and unfired pressure vessel service.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	boilers; pressure vessels; safety valves;



## NATIONAL BUILDING GRANITE QUARRIES ASSOCIATION

Kurt M. Swenson, Secretary

c/o Rock of Ages Corporation  
369 North State Street  
Concord, NH 03301  
(603) 225-8397

FAX: (603) 225-4801

Founded: 1916

Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Standards developer since 1916.

### Scope

A national trade association of companies involved in the quarrying and manufacture of granite for architectural applications. They represent their members in national and international areas of interest.

### Standardization Activities

Publishes Specifications for Architectural Granite annually. Specifications are reviewed and updated annually. Also provides listing of available types of granite from members classified by color, name, quarry location and quarrier. Also provides other assistance on architectural granite upon request.

### Availability

Distributed directly.

### Keywords

granite; building materials; architecture; architectural granite; building granite;

## NATIONAL CARGO BUREAU

Capt. James J. McNamara, President

30 Vesey Street  
New York, New York 10007  
(212) 571-5000

FAX: (212) 571-5005

Founded: 1952

Standards Staff: 8

### Type of Organization

Trade Association  
Standards Developer

### Certification

The bureau is authorized by the U.S. Coast Guard to certify the loading of bulk grain cargoes and to approve grain loading plans in accordance with current regulations. The Bureau is officially

recognized by the Coast Guard and the Department of Labor as a cargo gear certification agency.

**Scope**

A nonprofit organization whose membership is comprised of persons prominently identified with steamship management or marine insurance underwriting organizations.

Dedicated to the safe loading, stowing, securing, and unloading of cargo and cargo containers on all vessels, and for the design, strength, safety, and suitability of cargo handling gear and cargo containers, including the security and integrity of containers.

**Standardization  
Activities**

Assists the U.S. Coast Guard in administering the provisions of the Dangerous Cargo Act and the applicable regulations in Title 46, of the Code of Federal Regulations, Shipping, with respect to inspection of vessels for suitability for loading dangerous cargo; examination of stowage of dangerous cargo; making recommendations as to towage requirements of dangerous cargo; and issuance of certificate of loading setting forth that the stowage of dangerous cargo is in accordance with the regulations.

Participates in activities of the International Maritime Organization (IMO) by being active on the IMO Maritime Safety Committee, the Subcommittee on Containers and Cargos, and the Subcommittee on the Carriage of Dangerous Goods. This subcommittee revised the international regulations for the carriage of bulk grain.

**Formerly**

Absorbed Bureau of Inspection of Board of Underwriters of New York; Board of Marine Underwriters of San Francisco (1952)

**Keywords**

cargo handling; containerization; shipping; insurance; transportation;

**NATIONAL CERTIFIED PIPE WELDING BUREAU**

Jack Hansmann, Executive Secretary

1385 Piccard Drive  
Rockville, Maryland 20850-4329  
(301) 869-5800

FAX: (301) 990-9690

Founded: 1944

Standards Staff: 2

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

<b>Representation</b>	20 members represented on standards committees of organizations such as ASME, ANSI, and AWS.
<b>Scope</b>	A department of the Mechanical Contractors Association of America, Inc. Engages in research and educational work; supplies information and data on welding; creates a force of welders uniformly trained and qualified; and promotes, develops, and maintains the quality of welding in the piping industry.
<b>Standardization Activities</b>	Cooperates with other organizations to provide guidance and input for the standards development process. Works toward development of uniform procedure specifications for welding methods.
<b>Keywords</b>	pipe; welding; manufacturing;

#### NATIONAL CIVIC LEAGUE

Christopher Gates, President

1445 Market Street  
Suite 300  
Denver, Colorado 80202  
(303) 571-4343

FAX: (303) 571-4404

Founded: 1894

Standards Staff: 1

<b>Type of Organization</b>	Research and Advocacy
<b>Scope</b>	Civic leaders, educators, public officials, civic organizations, libraries, and businesses interested in improving state and local government and techniques of citizen action. Serves as a clearinghouse for information on state constitution, city and county charters, legislative apportionment, fiscal procedures, among others.
<b>Standardization Activities</b>	Model laws devised, published, and distributed by this organization are intended to serve as standards and to stimulate uniformity in state, county, and city legislation. These include a model bond law, budget law, city charter (which provides the council-manager form of government), model county charter, election administration system, model real property tax collection law, registration system, model state constitution, and others.

Formerly National Municipal League/Citizens Forum on Self-Government

Keywords model laws; government; officials;

## NATIONAL CLAY PIPE INSTITUTE

E. J. Sikora, Vice President

Post Office Box 759  
253-80 Center Street  
Lake Geneva, Wisconsin 53147  
(414) 248-9094

Founded: 1944

Standards Staff: 2

Type of Trade Association  
Organization Standards developer by working through ASTM

Government Federal agencies involved directly and indirectly in  
Adoption construction activities have adopted ASTM standards for Vitrified Clay Pipe and its installation.

Secretariats ASTM Committee C-4.

Scope An international trade association, representing the major U.S. manufacturers of Vitrified Clay Pipe, with Associate Members in several foreign countries. Renders engineering advisory services to design engineers, Government officials, and others. Conducts scientific research, national advertising, and public relations programs on behalf of the industry at various independent research laboratories and universities.

Publishes the Clay Pipe Engineering Manual for engineers, city and state officials, and architects. Also technical brochures of an educational nature relating to the use of Vitrified Clay Pipe in sanitary sewer systems.

Standardization Active in the American Society for Testing and  
Activities Materials. Assists in the development of federal specifications.

Availability Sold directly.

Formerly National Clay Pipe Manufacturers (1961)

Keywords vitrified clay pipe; sewers; sanitation; construction;

## NATIONAL CLAY POT MANUFACTURERS ASSOCIATION

Stone Manes, President

Post Office Box 485  
Jackson, Missouri 63755  
(314) 243-3138

FAX: (314) 243-3130

Founded: 1956

Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Scope

A nonprofit corporation which acts to stimulate professional and public interest in the uses and advantages of clay flower pots and in modern techniques employed in their production.

### Standardization Activities

Develops standard sizes and shapes of clay flower pots manufactured in the United States.

### Availability

Distributed directly.

### Keywords

flower pots; planting; agriculture; horticulture; floriculture; retail;

## NATIONAL COFFEE ASSOCIATION OF THE USA

George E. Boecklin, President

110 Wall Street  
New York, New York 10005  
(212) 344-5596

FAX: (212) 428-7059

Founded: 1911

Standards Staff: 1

### Type of Organization

Trade Association  
Works through other organizations to develop standards

### Scope

Green coffee importers, jobbers, brokers, and agents; instant coffee processors; roasters and allied coffee industries. Promotes sound business relations among members of the trade to increase coffee consumption.

### Standardization Activities

Representatives from member firms assist in development of Codex Alimentarius standards; U.S. Government and various other standards for purchasing.

### Keywords

coffee; agriculture; beverages;



**NATIONAL COIL COATERS ASSOCIATION**

Glen R. Anderson, Executive Director  
  
401 N. Michigan Avenue, 22nd Floor  
Chicago, Illinois 60611  
(312) 321-6894 FAX: (312) 321-6869  
  
Founded: 1962 Standards Staff: 1

Type of Organization Trade Association  
Standards Developer  
  
Scope Manufacturers of continuously coated metal coil, other than metal plated coil. Fosters development of standard test methods, exchanges technical information, collects statistics, and promotes coated coil.  
  
Standardization Activities Maintains a Technical Section which works to develop test methods and evaluate new processes. Activities include accelerated testing, physical testing, and standards development in the areas of color, laminate, aluminum, and steel. Supports ASTM, ANSI, and AISI in this work. Publishes a Technical Manual and Bulletins.  
  
Availability Distributed directly.  
  
Keywords coil coating; metal coating; materials;

**NATIONAL CONCRETE MASONRY ASSOCIATION**

Mark B. Hogan, Vice President of Engineering  
2302 Horse Pen Road  
Herndon, Virginia 22071-3499  
(703) 713-1900 FAX: (703) 713-1910  
  
Founded: 1920 Standards Staff: 5

Type of Organization Trade Association  
Works through other organizations to develop standards  
  
Representation All national model code organizations; ASTM committees and the standards committees of the Masonry Society, the American Concrete Institute and the American Society of Civil Engineers.  
  
Scope A nonprofit trade association representing concrete masonry manufacturers throughout the United States, Canada, and 21 other countries. Encourages development of the state-of-the-art and science of manufacturing concrete masonry; creates a standard of excellence in manufacturing; develops criteria for the proper use

of concrete masonry products and concrete pavers and encourages such use; and facilitates the interchange of practical knowledge among its members and related industries and organizations.

**Standardization  
Activities**

Activities of the association are developed by the Technical Committees and are subject to approval by the Board of Directors. Maintains continuing liaison and participation in the standardization and specification activities of the major national code bodies in the United States, the American Society for Testing and Materials, the American Concrete Institute, American Society of Civil Engineers, Building Seismic Safety Council, American Institute of Architects and the Construction Specifications Institute. Liaison and product specification assistance conducted on a regular basis with agencies of the federal government and design firms.

**Keywords**

concrete masonry; building; construction;

**NATIONAL CONFERENCE OF STATES ON BUILDING CODES AND STANDARDS**

Robert C. Wible, Executive Director

505 Huntmar Park Drive  
Suite 210  
Herndon, Virginia 22070  
(703) 437-0100

FAX: (703) 481-3596

Founded: 1967

Standards Staff: 4

**Type of  
Organization**

Professional Society  
Works through other organizations to develop standards

**Representation**

Delegates are governor-appointed representatives of the 50 states, the District of Columbia, and several territories. Members include state and local building officials, architects, engineers, developers, building contractors, manufacturers of industrialized/modular buildings and manufactured homes; and product manufacturers and suppliers.

**Secretariat**

Serves as the secretariat of the Industrialized Buildings Commission, the administrative arm of the Interstate Compact on Industrialized/Modular Buildings.

**Scope**

Promotes intergovernmental reform in the field of building codes and standards and development, acceptance, and use of innovative building materials and technology. Founded by a number of state governors interested in better coordination of state building code

and public safety activities. Party to an Executive Branch Agreement with the National Governors' Association and a Memorandum of Understanding with the National Institute of Standards and Technology.

**Standardization  
Activities**

Responsible for the NCSBCS/ANSI A225.1-1994 Standard on Manufactured Home Installation, which may be obtained directly from the association. Through its delegates, participates in the development and maintenance of building codes and standards at the state level. Monitors the design and construction of manufactured housing nationwide under a contract with the U.S. Department of Housing and Urban Development. Works under a grant from the U.S. Department of Justice on accessibility issues. Provides state government with a voice in other standards writing organizations. Publishes the two-volume (state and city) Directory of Building Codes and Standards, the Introduction to Building Codes, and other reference works, all of which are available directly from the association.

**Keywords**

government; buildings; construction; manufactured homes; energy; safety; indoor air quality; accessibility;

**NATIONAL COORDINATING COUNCIL ON EMERGENCY MANAGEMENT**

Elizabeth B. Armstrong, CAE, Executive Director

7297 Lee Highway

Suite N

Falls Church, Virginia 22042-1707

(703) 533-7672

FAX: (703) 241-5603

Founded: 1952

Standards Staff: 1

**Type of  
Organization**

Professional Society  
Standards Developer

**Scope**

Membership consists of 1700 emergency management professionals from local, state and federal government; private industry; and the military.

**Standardization  
Activities**

Established a voluntary certification program in 1993; development of the professional standards upon which the certification requirements are based was funded by the Federal Emergency Management Agency. The Certified Emergency Manager (CEM) designation is awarded to candidates who satisfy requirements in the areas of experience, references, education, training, professional contributions, and scenario essay response.

Availability	Directly.
Formerly	United States Civil Defense Council
Keywords	emergency; disaster; preparedness; public safety;

# NATIONAL CORRUGATED STEEL PIPE ASSOCIATION

Joseph B. Morris, Executive Vice President

1255 Twenty-third Street, NW  
Suite 850  
Washington, DC 20037  
(202) 452-1700 FAX: (202) 833-3636

Founded: 1955 Standards Staff: 1

Type of Organization	Trade Association Standards Developer
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Standards Development	Standards developer since 1956. 74 member companies participating in standards activities. 5 active standards. None processed through ANSI.
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Standards Designation	CSP prefix.
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Scope	A national trade association that represents corrugated steel pipe fabricators, steel suppliers, and manufacturers of related products. Improves and expands the use of corrugated steel pipe and plate for culverts, sewers, bridges, subdrains, and other drainage facilities.
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Standardization Activities	Maintains an active Technical Advisory Committee which develops CSP standards along with participating in and monitoring the work of other technical bodies such as ASTM, AASHTO, and AISI. Engineering organizations, specifying agencies, and users of corrugated steel pipe use standards. Widespread activities of the association make it possible for county, state, federal, city, consulting and other engineers, as well as construction personnel, to become thoroughly acquainted with design, use, installation, and acceptance of corrugated steel pipe throughout the United States.
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Availability	Distributed directly.
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<b>Formerly</b>	National Corrugated Metal Pipe
<b>Keywords</b>	culverts; sewers; bridges; construction;
 <b>NATIONAL COTTON COUNCIL OF AMERICA</b>	
	Phillip C. Burnett, Executive Vice President
	P.O. Box 12285
	Memphis, Tennessee 38182
	(901) 274-9030                      FAX: (901) 725-0510
	Founded: 1938                      Standards Staff: 4
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Members provide input or serve on various committees of standards developers, such as ASTM, ISO, AATCC, ACGIH, OSHA, CAL/OSHA, CPSC, EPA, and ANSI.
<b>Secretariats</b>	Joint Cotton Industry Bale Packaging Committee (JCIBPC). NCCA is one sponsor of the International Cotton Calibrations Standards Committee.
<b>Scope</b>	The National Cotton Council is the central organization of the United States cotton industry representing growers, ginner, warehousemen, merchants, cooperatives, manufacturers, and cottonseed crushers. It serves its members through programs of technical services, foreign operations, communications services, economic services, and legislation.
<b>Standardization Activities</b>	Works with industry and government agencies in developing needed fiber/textile test methods, product standards, and safety/health environmental standards affecting the cotton industry. Develops specifications to improve the quality and protection of the American cotton bale and to improve its appearance and saleability in domestic and foreign markets. Sets cotton bale standards to guide handlers and processors in evaluating and communicating bale conditions. Through the JCIBPC, develops specifications for acceptable cotton bale packaging materials. These are adopted by reference by the Commodity Credit Corporation as a requirement for CCC loan eligibility.
<b>Keywords</b>	cotton; bale packaging; fiber testing; cottonseed; textiles; safety environment; agriculture;



## NATIONAL COTTONSEED PRODUCTS ASSOCIATION

Lynn A. Jones, Executive Vice President

P.O. Box 172267

Memphis, Tennessee 38187-2267

(901) 682-0800

FAX: (901) 682-2856

Founded: 1897

Standards Staff: 2

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

232 members actively participate in the use of NCPA  
Trading Rules.

### Scope

Virtually all contracts between members and between members and  
non-members are subject to the provisions of the Trading Rules of  
the National Cottonseed Products Association.

### Standardization Activities

Trading Rules provide for handling, sampling, and  
analysis of cottonseed and cottonseed products and for handling  
normal variation in quality and in actual delivery weights.  
Trading rules, such as those for cottonseed oil trading rules,  
relate final compensation to the yield or out-turn of refined oil  
from the crude oil.

### Availability

Distributed directly.

### Keywords

cottonseed; edible oil; food; agriculture; vegetable oil;

## NATIONAL COUNCIL FOR PRESCRIPTION DRUG PROGRAMS

Lee Ann C. Stember, President

4201 N. 24th Street

Suite 365

Phoenix, Arizona 85016

(602) 957-9105

FAX: (602) 955-0749

e-mail: NCPDP@NCPDP.org

Founded: 1977

Standards Staff: 14

### Type of Organization

Professional and Trade Association  
Standards Developer

### Standards Development

NCPDP first started developing standards in 1977 with  
the development of the Universal Claim Form. NCPDP has  
approximately 1100 members of which approximately 250 actively  
participate in the 11 work groups that establish the standards.

NCPDP has seven active standards and all draft standards are available for review by contacting NCPDP. NCPDP is in the process of applying for ANSI accreditation.

Standards Designation	By name and version/release of the standard.
Government Adoption	NCPDP standards have successfully been adopted through 37 state Medicaid agencies and continues to work with others in their implementation.
Certification	None
Scope	NCPDP creates and promotes prescription data interchange and processing standards to the pharmacy services sector of the health care industry, and provides a continuing source of accurate and reliable information that supports the diverse needs of its 1100 members.
Standardization Activities	NCPDP's Telecommunication Standard, Version 3.2 is widely used in the industry and is expected to process over 1 billion claims in 1995. Other standards cover billing format, drug utilization review, magnetic stripe format, x12 implementation, and related topics.
Availability	Distributed directly.
Keywords	pharmaceutical claims processing; EDI; member enrollment; product identification; standard billing;

#### NATIONAL COUNCIL ON RADIATION PROTECTION AND MEASUREMENTS

W. Roger Ney, Executive Director

7910 Woodmont Avenue  
Suite 800  
Bethesda, Maryland 20814  
(301) 657-2652

FAX: (301) 907-8768

Founded: 1964

Standards Staff: 3

Type of Organization	Scientific Society Standards Developer
Standards Development	Recommendations developed since 1928. 75 published reports which contain recommendations.
Scope	A nonprofit corporation which seeks to promulgate information and recommendations based on leading scientific judgment on matters of radiation protection and measurement and to foster cooperation among organizations concerned with these matters.

**Standardization  
Activities**

Collects, analyzes, develops, and disseminates in the public interest information and recommendations about protection against radiation and radiation measurements, quantities, and units, particularly those concerned with radiation protection. Provides a means by which organizations concerned with scientific and related aspects of radiation protection and of radiation quantities, units, and measurements may cooperate for effective utilization of their combined resources. Develops basic concepts about radiation quantities, units, and measurements about the application of these concepts and about radiation protection. Cooperates with the International Commission on Radiological Protection, the International Commission on Radiation Units and Measurements, and other national and international organizations, governmental and private.

Maintains about 50 Scientific Committees to draft proposed recommendations.

**Availability**

Distributed directly.

**Formerly**

National Committee on Radiation Protection and Measurement  
Advisory Committee on X-Ray and Radium Protection

**Keywords**

radiation protection; radiation measurement; environmental;  
safety;

**NATIONAL DIMENSION MANUFACTURERS ASSOCIATION**

Steven V. Lawser, Executive Director

1000 Johnson Ferry Road  
Suite A-130  
Marietta, Georgia 30068  
(770) 565-6660

Founded: 1929

Standards Staff: 1

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards Developer since 1929.  
All members participate in standards development.

**Standards  
Designation**

NDMA.

<b>Scope</b>	Objectives are to establish and maintain the rules and standards for the industry; conduct and stimulate trade promotion activities for the industry; and to hold educational plant tours and meetings that promote exchange of manufacturing techniques and ideas in the industry among its members.
<b>Standardization Activities</b>	Cooperates with all lumber, furniture, cabinet and related wood using manufacturers/associations in bringing about standardization programs on grading rules for wood component products. Publishes the "NDMA Rules and Specifications for Dimension and Woodwork." These Rules are recognized by the National Hardwood Lumber Association, and are considered international in scope.
<b>Formerly</b>	Hardwood Dimension Manufacturers Association
<b>Availability</b>	Sold directly.
<b>Keywords</b>	wood components; trim; stairs; furniture; cabinetry; woodwork; moulding;

# **NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION**

	H. Brooke Stauffer, Director, Codes and Standards
	3 Bethesda Metro Center Suite 110 Bethesda, Maryland 20814 (301) 657-3110 FAX: (301) 215-4500
	Founded: 1901
<b>Type of Organization</b>	Trade Association Standards developer and works through other organizations to develop standards
<b>Representation</b>	NECA participates in ANSI, NFPA and ASTM standards activities.
<b>Standards Development</b>	NECA published its original Standard of Installation in 1962. NECA is currently applying for ANSI accreditation to develop a series of recommended installation practices for electrical products and systems.
<b>Standards Designation</b>	NECA 1.
<b>Government Adoption</b>	NECA's Standard of Installation is not adopted for regulatory use by federal agencies, or state and local governments.

Certification	NECA does not sponsor certification or accreditation programs.
Scope	A nationwide trade association representing the electrical contracting industry. Provides management services and labor relations programs. Sponsors research and educational programs; compiles statistics; conducts seminars.
Standardization Activities	Sets basic standards for electrical equipment and materials and methods of their installation. The NECA Technical Service maintains competent representation on interindustry and other standards agencies. NECA's Standard of Installation defines good workmanship and has been an authoritative guide to determine the "neat and workmanlike manner" requirements of the National Electrical Code.  Prevents and reduces accidents by providing continuing information to its members on OSHA requirements.
Availability	Sold directly.
Keywords	electrical products; safety; installation;

#### NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

Frank K. Kitzantides, Vice President, Engineering Department

1300 North 17th Street  
Suite 1847  
Rosslyn, Virginia 22209

(703) 841-3200

FAX: (703) 841-3358

e-mail: fra\_kitzantides@nema.org

Founded: 1926

Standards Staff: 33

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Standards developer since 1926.  
550 members participating in standards activities.  
215 current standards.  
40 standards recognized by ANSI.  
5 standards endorsed by Electro Federation Canada.  
Draft standards distributed for user review.

Standards  
Designation

NEMA Standard, Suggested Standard for Future Design,  
Authorized Engineering Information, Official Standards Proposal.



Government Adoption	41 standards have been adopted by DoD.
Secretariats	24 ANSI committees dealing with electrical equipment ISO/TC 184/SC 5; SC 2J; SC/15C; SC 22G; TC 37; SC 37B; TC 72.
Scope	A trade association of manufacturers of equipment and apparatus used for the generation, transmission, distribution, and utilization of electric power. Membership comprises 630 electrical manufacturing companies in the United States. Membership is limited to corporations, firms, and individuals in the United States, Canada, and Mexico engaged in the manufacture or promotion of products included within 70 NEMA product subdivisions. Products include transformers, wire and cable, switchgear, industrial control and systems, lighting, building equipment, diagnostic imaging and therapy systems products and industrial automation equipment.
Standardization Activities	Standards are designed and written to eliminate misunderstandings between manufacturers and users of electrical products and to provide for safety in the application of these products. Involves all interested parties in standards development and review. Cooperates with organizations such as the American Society for Testing and Materials, National Fire Protection Association, Underwriters Laboratories, the Institute of Electrical and Electronics Engineers, and others. Also cooperates with federal agencies.  Supports ANSI and has representation on standards committees and sponsors several of them. Also represented on ANSI Standards Boards and the Organizational Member Council. Participates in the International Electrotechnical Commission (IEC), the IEC System for Conformity Testing to Standards for Safety of Electrical Equipment (IECEE), and in the International Organization for Standardization (ISO).  NEMA also participates in the development of safety standards affecting electrical equipment. Cooperates with other branches of the industry in an effort to secure acceptance throughout the country of the National Electrical Code and the National Electrical Safety Code. Members also cooperate in an independent advisory capacity with the Underwriters Laboratories in the development of electrical safety standards.
Availability	Sold directly by NEMA and through IHS, American Technical Publishers Ltd., and Global.

<b>Formerly</b>	Formed by merger of Electrical Power Club and Associated Manufacturers of Electrical Supplies (1926)
<b>Keywords</b>	electrical equipment; safety; machinery; medical equipment; industrial automation;

# **NATIONAL ELEVATOR INDUSTRY**

Edward A. Donoghue, Consultant-Codes and Safety

185 Bridge Plaza  
No. Rm 310  
Fort Lee, New Jersey 07024  
(201) 944-3211 FAX: (201) 944-5483

Founded: 1934 Standards Staff: 1

## **Type of Organization**

Trade Association  
Standards Developer

## **Standards Development**

Standards developer since late 1950's. 100 members participating in Code and Standards activities pertaining to elevators, escalators, dumbwaiters, and moving walks.  
Two active standards.  
None processed through ANSI.

## **Standards Designation**

Vertical Transportation Standard.

## **Secretariats**

U.S. TAG for ISO/TC 178, Lifts and Escalators

## **Scope**

Promotes the interests of its members by acting as representative in collective bargaining with the International Union of Elevator Constructors advancing sound engineering practices within the industry in cooperation with government agencies in activities related to elevator codes and the installation, service, and maintenance of elevators and related products; compiling and furnishing statistical information.

## **Standardization Activities**

Actively participates with code and standards organizations and enforcing authorities in developing, maintaining, and applying safety codes and standards that pertain to elevators, dumbwaiters, escalators, and moving walks. Develops requirements for the handicapped using vertical transportation, codes for personnel elevators, personnel and material hoists, model building codes, electrical codes, requirements for elevator fire doors, and metric codes.

Promotes the adoption of new state and local elevator codes, revises existing elevator safety codes and secures uniform interpretation of the Safety Code for Elevators and Escalators ANSI/ASME A17.1. Representatives of the NEII Central Code Committee are members of ASME A17, NFPA 70, 80 and 101, BOCA, SBCC, ICBO, and ASTM.

The Standards Committee is responsible for the development of industry standards for elevators, dumbwaiters, and escalators. The Vertical Transportation Standard gives architects and building owners standard dimensions from which they can produce building layouts.

The International Standards Committee coordinates the Activities of the United States Technical Advisory Group for ISO/TC 178 Lifts and Escalators.

Availability	Distributed directly.
Formerly	National Elevator Manufacturers Industry (1969)
Keywords	elevators; escalators; dumbwaiters; moving walks; lifts; building; safety; physically handicapped;

#### **NATIONAL ENVIRONMENTAL BALANCING BUREAU**

Michael P. Dolim, Executive Vice President  
8575 Grovemont Circle  
Gaithersburg, Maryland 20877-4121  
(301) 977-3690 FAX: (301) 977-9589

Founded: 1971 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Four (4) procedural standards publications.
Government Adoption	Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems is referenced in Federal Guide Specifications.
Certification	NEBB offers certification for firms that meet all requirements established for Performance of Air Systems, Performance of Hydronic Systems, and Sound and Vibration Measurement, Cleanroom Performance Testing and Building Systems Commissioning.

Scope	A nonprofit organization sponsored by the Mechanical Contractors Association of America (MCAA) and Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
Standardization Activities	Works in conjunction with other organizations to develop industry procedural standards for testing, adjusting, and balancing (TAB) of environmental systems in buildings. Represented on the American Society for Heating, Refrigerating and Air conditioning Engineers (ASHRAE) 111 Committee, Testing, Adjusting, Balancing. Develops manuals that provide a comprehensive set of systematic procedures representing the state-of-the-art of TAB work. Manuals cover air/Hydronic TAB, sound and vibration measurement procedures for environmental systems in buildings, Cleanroom performance testing, and building systems commissioning.
Availability	Distributed directly.
Keywords	balancing; sound; vibration; air handling; Hydronic systems; HVAC Systems; environmental systems; acoustics; building; cleanrooms; certification; commissioning;

#### NATIONAL FASTENER DISTRIBUTORS ASSOCIATION

Kenneth R. Dickson, Executive Director

725 Southwick Circle

Somerdale, New Jersey 08083-2311

(609) 627-4333

FAX: (609) 627-7531

Founded: 1968

Type of Organization	Trade Association Works through other organizations to develop standards
Representation	The Association is a member of ANSI, ASME, ASTM, the American National Metric Council, and the Industry Bar Code Alliance.
Scope	209 manufacturers and distributors in the fastener industry with members located in 41 states employing 18,000 people.
Standardization Activities	An information gathering group that disseminates data to the proper standards committees. Writes specifications only if the situation cannot be handled by an

existing standards developing organization. Currently developing a bar code standard.

**Keywords** fasteners; manufacturing;

## **NATIONAL FEDERATION OF ABSTRACTING AND INFORMATION SERVICES**

John Schnepf  
Common Practices and Standards Committee

1518 Walnut Street  
Suite 307  
Philadelphia, Pennsylvania 19102  
(215) 893-1561 FAX: (215) 893-1564

Founded: 1958

**Type of Organization** Technical Society  
Works through other organizations to develop standards

**Representation** 65 members active in standardization activities including involvement in ANSC-Z39, ANSC-X3, ISO/TC 46, UNESCO's UNISIST Project, Federal Information Processing Standards (FIPS), AAP's Electronic Publishing Subcommittee, and others.

**Scope** A nonprofit federation of organizations involved in abstracting and indexing services, operating information centers, or conducting research in information science. Improves the extent and quality of the documentation and use of the world's literature through research programs, publications, and seminars. Concerned with developing communications, cooperation, and coordination among all segments of the information processing and dissemination community including primary publishers, libraries, commercial and industrial abstracting and indexing services, data analysis centers, information dissemination centers, and teachers and researchers in the field. Also serves as a communication forum for its members through meetings, workshops, committee activities, and publications.

**Standardization Activities** Although NFAIS is not a standards setting body, it works within the voluntary standards community to foster the development and use of standards relevant to its membership. Because NFAIS members are involved in various aspects of the processing and disseminating of information, their interest in standards ranges widely. Relevant standards may pertain directly to abstracting and indexing practices. Also of interest are standards dealing with information science, primary publishing, library work, data processing, and computer readable information



transfer. Relevant standards may also arise from individual subject areas or disciplines with which the information deals, such as engineering, biology, philosophy, or art.

NFAIS, through its Common Practices and Standards Committee (CP&S), serves as a communications link between the voluntary standards setting community and the information publishing and distribution community. The CP&S Committee coordinates the NFAIS response to ballots or requests for comments pertaining to draft standards. This is accomplished by polling the NFAIS membership and, in some cases, by resolving minority votes on specific standards. By the same mechanism, NFAIS recommends and votes on qualified individuals to run for office or to serve on committees in standards setting bodies.

Further, NFAIS encourages the active participation of its members on standards setting bodies. Through its members and officers, NFAIS plays a role in the work of such standards setting bodies as: ANSI Committees X3-Information Processing and Z39-Library and Information Sciences and Related Publishing Practices; ISO Committees TC 46-Documentation and TC97-Computers and Information Processing; UNESCO through its UNISIST and ISDS (International Serials Data System) agencies; IFLA (International Federation of Library Associations); ICSU-AB (International Council of Scientific Unions - Abstracting Board); FIPS; and the AAP Electronic Publishing Subcommittee.

In addition to its support for the development of voluntary standards, NFAIS also encourages the general adoption of those standards considered most applicable and useful to the information processing and distribution community. Periodically, NFAIS surveys the implementation of standards by its members in order to determine which standards are being used and the ways in which they are used. Such surveys also provide information on the common practices and the *de facto* standards of members which may be candidates for formal standardization.

**Formerly**

National Federation of Science Abstracting and Indexing Service (NFSAIS), 1972.

**Keywords**

abstracting; indexing; information services; online searching; bibliographic data bases; information processing; communications;

NATIONAL FEDERATION OF STATE HIGH SCHOOL ASSOCIATIONS

Robert F. Kanaby, Executive Director  
  
11724 Plaza Circle  
Kansas City, Missouri 64153  
(816) 464-5400 FAX: (816) 464-5571  
  
Founded: 1920 Standards Staff: 8

Type of Organization Academic Federation  
Standards Developer  
  
Standards Development Prepares rules and standards for 13 interscholastic sports.  
  
Scope Represents 20 000 high schools and 10 million secondary school students, primarily to secure proper adherence to the rules of various state high school associations during interstate competition. Establishes standards for sanctioning domestic athletic events.  
  
Standardization Activities Publishes and distributes playing rules for domestic competition in interscholastic sports: baseball, basketball, football, gymnastics, soccer, swimming and diving, track and field, volleyball, ice hockey, wrestling, field hockey. Sixty-six rules related publications are published including 28 rule books and 13 rule examinations. Provides national interpretation of the rules and advocates safety standards which are incorporated in the rule publications.  
  
Availability Distributed directly.  
  
Formerly National Federation of State High School Athletic Associations (1970)  
  
Keywords athletic competition; sports; safety; recreation;

NATIONAL FENESTRATION RATING COUNCIL

John D. Rivers, Administrator  
  
1300 Spring Street  
Suite 120  
Silver Spring, Maryland 20910  
(301) 589-6372 FAX: (301) 588-0854  
e-mail: NFRCUSA@aol.com  
  
Founded: 1989 Standards Staff: 4

Type of Organization	Educational and Scientific Ratings Developer
Standards Development	Develops rating procedures for fenestration products. 6 rating procedures.
Standards Designation	Ratings procedures are designated NFRC 100-91, NFRC 200, etc.
Government Adoption	Federal Regulations and those of six states and the CABO Model Energy code
Certification	Three programs: one to accredit laboratories; one to license independent certification agencies; and one to certify fenestration products in accordance with rating procedures.
Scope	NFRC is a coalition of the fenestration and building industries, government, utilities, code officials and consumer groups working to develop a voluntary, national energy rating system for windows, doors, skylights and other fenestration products. A uniform national energy performance rating and labeling system will enable builders and consumers to directly compare fenestration products.
Standardization Activities	NFRC is working to combine U-factor, solar heat gain factors, optical properties, air infiltration condensation resistance, annual and long term energy performance and other characteristics into a uniform rating system that reflects energy performance. This effort is supported by a rigorous system of laboratory accreditation to ensure competence and accuracy in the implementation of the various rating techniques employed. Product certification and labeling processes have also been standardized to ensure consistency in product labeling and consumer information.
Availability	Distributed directly.
Keywords	windows; doors; skylights; fenestration; energy performance;

#### NATIONAL FIRE PROTECTION ASSOCIATION

Arthur E. Cote, Vice President and Chief Engineer

Batterymarch Park  
Quincy, Massachusetts 02269  
(617) 770-3000 FAX: (617) 770-0700  
e-mail: [library@nfpa.org](mailto:library@nfpa.org)  
WWW: <http://www.wpi.edu/~fpe/nfpa.html>

Founded: 1896

Standards Staff: 300

Type of Organization	Technical and Educational Organization Standards Developer
Standards Development	Standards developer since 1896. Approximately 5200 individuals serve on more than 200 NFPA Technical Committees which develop new codes and standards and continually monitor existing documents. National Fire Codes, 1989 Edition, includes approximately 300 fire protection, prevention and suppression codes, standards, recommended practices, guides, and manuals, all of which are ANSI approved standards. Draft documents and revisions are published for public review and comment.
Standards Designation	NFPA prefix.
Government Adoption	In the United States, NFPA documents are referenced by the Occupational Safety and Health Act (OSHA); adopted by Congress for recipients of Medicare and Medicaid; adopted by Coast Guard, Departments of Veterans Affairs, Health and Human Services, Housing and Urban Development; adopted by numerous state and local governments. In addition, various governments around the world adopt NFPA documents at both the national and local levels.
Certification	Administers Certificated Marine Chemist program.
Secretariats	International: Conference of Fire Protection Associations United States: Joint Council of National Fire Service Organizations
Scope	An independent, nonprofit organization with approximately 65 000 individual members and 100 national trade and professional association members worldwide. Activities are technical and educational in nature. Gathers and analyzes fire statistics; performs on-site investigation of significant fires; and works on anti-arson projects. National sponsor of Fire Prevention Week.
Standardization Activities	Active Standards Council which administers standardization activities of more than 200 technical committees. Standards widely used as the basis of legislation and regulation at all levels of government; many referenced by the federal government and used by insurance authorities for risk evaluation and premium rating. Many documents are used outside North America.

Availability Distributed directly and through IHS, and Global.

Keywords fire prevention; fire protection; fire code; safety;

#### NATIONAL FIRE SPRINKLER ASSOCIATION

John A. Viniello, President

P.O. Box 1000  
Patterson, New York 12563  
(914) 878-4200 FAX: (914) 878-4215

Founded: 1914 Standards Staff: 5

Type of Trade Association  
Organization Standards Developer

Standards 106 representatives and 65 committees active in  
Development standards development.

Scope A national trade association of fire sprinkler manufacturers and installers. Advances the art of automatic control of fire through automatic sprinklers, and the conservation of life and property from fire.

Standardization Cooperates with national technical bodies in the  
Activities preparation of standards and fire protection sections of building codes and ordinances. Sets standards for design, installation, inspection, and maintenance of automatic sprinklers.

Cooperates with the American Insurance Association, Insurance Services Office, Underwriters Laboratories (UL), and Factory Mutual Engineering and Research in the formulation of standards, specifications, and regulations for fire apparatus and their use.

Officially represented on sectional committees functioning under the procedure of the American National Standards Institute (ANSI) engaged in the development and revision of code for pressure piping, pipe threads, and pipe flanges and fittings.

The NFSA is a member of the Southern Building Code Congress, the International Conference of Building Officials, and Code Administrators International. Maintains consistency between codes and standards and coordinates the industry's activities in the model code field with those in the standard making bodies, including National Fire Protection Association, American Society for Testing and Materials, American National Standards Institute, Underwriters Laboratories, Factory Mutual System, and others.



Formerly	National Automatic Sprinkler and Fire Control Association
Availability	Distributed directly.
Keywords	fire protection; safety; sprinkler;

NATIONAL FISHERIES INSTITUTE

	Roy Martin, Vice President of Science and Technology
	1525 Wilson Blvd. Suite 500 Arlington, Virginia 22209 (703) 524-8880
	FAX: (703) 524-4619
	Founded: 1945
	Standards Staff: 2
Type of Organization	Trade Association Works through other organizations to develop standards
Scope	A national trade association that represents United States companies engaged in seafood processing, shipping, and distribution.
Standardization Activities	Works with Department of Commerce, National Marine Fisheries Service to assist in their development of standards.
Keywords	fish; seafood; marine resources; food;

NATIONAL FLUID POWER ASSOCIATION

	Shirley C. Seal, Manager of Standards Development Industry/National
	3333 North Mayfair Road Suite 311 Milwaukee, Wisconsin 53222-3219 (414) 778-3344
	FAX: (414) 778-3361
	e-mail: <a href="mailto:nfpa@execpc.com">nfpa@execpc.com</a> WWW: <a href="http://www.nfpa.com">http://www.nfpa.com</a>
	Founded: 1953
	Standards Staff: 3
Type of Organization	Trade Association Standards Developer

Standards Development	Standards developer since 1953. 380 members participating in standards activities. 55 active NFPA standards. 117 promulgated through ANSI.
Standards Designation	NFPA Recommended Standards, and ANSI/B93.x and ANSI/NFPA T-.-.-.
Certification	No certification, qualification, or accreditation programs.
Secretariats	ASC B93 ISO/TC 131 ISO/TC 131/SC 4 ISO/TC 131/SC 7
Government Adoption	4 adopted by DoD.
Secretariats	ANSI/B93, Fluid Power Systems and Products. ISO/TC 131, Fluid Power Systems.
Scope	A nonprofit trade association serving manufacturers of fluid power (hydraulic and pneumatic) products with 182 corporate members nationwide.
Standardization Activities	Standards activities account for half of the total association programs. Administered through a technical board, under which are organized 16 committees and 150 project groups. Standards cover dimensions, specifications, methods of testing or rating, terminology, symbols, and procedures for systems, as well as individual components, including fluid power cylinders, valves, pumps, motors, sealing devices, conductors, fittings, filters, fluids, servovalves, accumulators, and pneumatic logic devices. Solicits technical input from all affected interests.  Committees and staff participate in standards programs of ANSI, SAE, ASME, ASTM, ISA, and ASLE.
Availability	Sold directly and through ANSI, Global, and IHS.
Keywords	fluid power; hydraulic; pneumatic;

#### NATIONAL FOOD PROCESSORS ASSOCIATION

John R. Cady, President

1401 New York Avenue NW.  
Suite 400  
Washington, DC 20005  
(202) 639-5900

FAX: (202) 639-5932

Founded: 1907

Standards Staff: 8

**Type of  
Organization**

Trade Association.  
Works through other organizations to develop standards.

**Scope**

A national trade association established to help members maintain and improve product quality. Operates research laboratories in Washington, DC; Berkeley, CA; and Seattle, WA. Represents 600 member companies which pack processed-prepared fruits, vegetables, meats, fish and specialty products, including canned, frozen, dehydrated, and other processed food products. Also includes companies that provide equipment, supplies, and services to food processors.

**Standardization  
Activities**

Maintains liaison with the National Conference on Weights and Measures for the purpose of developing constructive and uniform laws and regulations on the state level. Also maintains liaison with the U.S. Technical Advisory Group and delegates to meetings of ISO/TC 52 and its subcommittees on international standards for metal cans for food.

**Formerly**

National Canners Association

**Keywords**

food processing; food; packaging; food safety; food labeling; pesticide use;

**NATIONAL FOREST PRODUCTS ASSOCIATION**

Barry Cullen, President

1250 Connecticut Avenue NW.

Washington, DC 20036

(202) 463-2765

FAX: (202) 463-2791

Founded: 1902

Standards Staff: 5

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Active in 27 committees.  
22 active standards and guides.

**Government  
Adoption**

Specifications adopted by the Department of Housing and Urban Development, Veterans Administration, Farmers Home Administration, Department of Defense, General Services Administration, Health and Human Services Administration, and the Council of American Building Officials.

Scope	Forest product manufacturers and federation of 30 North American forest industry associations. Represents the industry on national issues concerning timber growth and product manufacture.
Standardization Activities	<p>Develops and distributes 6 recommended specifications and standards for the use of lumber and wood products and 16 general construction data guides. Serves on standards committees of ANSI, ASTM, and the National Fire Protection Association.</p> <p>Standards activity includes development of wood structural design data, design values for wood construction, span tables for joists and rafters, the design of wood frame structures, and permanent wood foundations.</p>
Availability	Sold or distributed directly.
Formerly	National Lumber Manufacturers Association (1965)
Keywords	wood; lumber; construction; building;

#### NATIONAL GOLF CAR MANUFACTURERS ASSOCIATION

	Fred L. Somers, Jr., Secretary-Treasurer/General Counsel	
	Two Ravinia Drive Suite 310 Atlanta, Georgia 30346 (770) 394-7200	
		FAX: (770) 395-7698
	Founded: 1984	Standards Staff: 1
Type of Organization	Trade Association Standards Developer	
Standards Development	Develop and maintain safety and performance standards for golf cars. These are published in accordance with American National Standards Institute (ANSI) criteria and distributed through ANSI.	
Standards Designation	ANSI/NGCMA Z-130.1 Golf Car Standard.	
Certification	None	
Scope	Membership consists of OEM manufacturers representing approximately 95 percent of all golf cars produced in	

the United States. NGCMA develops and maintains performance and safety standards for use by the golf industry.

**Keywords** golf cars;

## **NATIONAL GROUND WATER ASSOCIATION**

Kevin B. McCray, CAE, Executive Director

One Ground Way at 2600 Airport Drive

Columbus, Ohio 43219

(614) 761-1711

FAX: (614) 761-3446

Founded: 1948

Standards Staff: 11

**Type of Organization** Technical Society  
Works through other organizations to develop standards

**Representation** American Water Works Association; American Society for Testing and Materials.

**Certification** Offers a voluntary Certification Program for both ground water contractors and ground water scientists and engineers. Contractor certification includes one general and 12 specific examinations.

**Scope** An organization of water well drilling contractors, manufacturers, wholesale suppliers and professional geologists, hydrologists, and engineers interested in the problems of locating, developing, and utilizing underground water supplies. Objectives of the association include the promotion of scientific development and the advancement of the science of ground water hydrology.

**Standardization Activities** Business Information Committee cooperates with various organizations in developing standards for well construction and the sampling and monitoring of ground water resources. The National Ground Water Information Center, a service of the Association, maintains an online data base of standards applied throughout the ground water industry.

**Keywords** wells; water wells; hydrology; public health;



## NATIONAL HARDWOOD LUMBER ASSOCIATION

Ernest J. Stebbins, Executive Manager

Box 34518

Memphis, Tennessee 38134-0518

(901) 377-1818

FAX: (901) 382-6419

Founded: 1898

Standards Staff: 9

### Type of Organization

Trade Association  
Standards Developer

### Standards Designation

NHLA prefix.

### Certification

The association maintains qualified inspectors in the principal hardwood markets and producing districts of the United States and Canada who are authorized to issue certificates of inspection of hardwood lumber and cypress, the correctness of the grades and measurements shown on the certificate being guaranteed by the financial resources of the association. This official inspection service is available to the members and nonmembers on federal, state or local government contracts. Extensive use of this service has been made by the U.S. Defense Supply Agency.

### Scope

United States and Canadian hardwood lumber and veneer manufacturers, distributors, and consumers. Inspects measures, and certifies hardwood lumber.

### Standardization Activities

One of the principal functions is the maintenance of standards for the grading of hardwood lumber, and an inspection staff for the official application of the standards.

Issues biennially a new edition of the Rules for the Measurement and Inspection of Hardwood Lumber, Cypress, and Thin Lumber. NHLA's grade rules are recognized as standard throughout the world.

Maintains a school in Memphis, Tennessee for training hardwood inspectors.

### Availability

Distributed directly.

### Keywords

wood products; lumber; inspection; grading rules; building;

NATIONAL INFORMATION STANDARDS ORGANIZATION

Patricia Harris, Executive Director

4733 Bethesda Avenue  
Suite 300  
Bethesda, Maryland 20814  
(301) 654-2512 FAX: (301) 975-1721  
WWW: <http://www.niso.org>

Founded: 1939 Standards Staff: 3

Type of Organization	Professional Association Standards Developer
Standards Development	500 members serve on NISO standards committees. More than 50 published standards.
Standards Designation	Z39.
Government Adoption	Some NISO-developed standards have been adopted by DoD or as FIPS standards.
Secretariats	ISO/TC 46/SC 4 Automation in Documentation and Information
Scope	A professional association which develops technical standards used in libraries, information services and systems, and publishing.
Standardization Activities	NISO standards address the communication needs of information services, libraries, publishing, and the book trade in such areas as: communication formats and information transfer, transliteration, preservation of materials, forms and records, identification systems, publication formats, and library equipment and supplies. NISO is designated by ANSI as the U.S. TAG to ISO/TC 46 Computer Applications in Information and Documentation.
Availability	Distributed by Transaction Publishers; draft standards available directly from NISO.
Keywords	library; publishing; information services; books; communications;

## NATIONAL INSTITUTE OF BUILDING SCIENCES

David A. Harris, President

1201 L Street NW.  
Washington, DC 20005  
(202) 289-7800

FAX: (202) 289-1092

Founded: 1978

Standards Staff: 25

### Type of Organization

Scientific Society  
Standards Developer

### Secretariats

Building Seismic Safety Council  
Building Thermal Envelope Coordinating Council  
Wood Protection Council

### Scope

Congressionally authorized, nonprofit, nongovernmental scientific/technical institution. Functions and responsibilities relate to building regulations in the following four areas: (1) development, promulgation, and maintenance of nationally recognized performance criteria, standards, and other technical provisions for maintenance of life, safety, health, and public welfare suitable for adoption by building regulating jurisdictions and agencies, including test methods and other evaluative techniques relating to building systems, subsystems, components, products, and materials with due regard for consumer problems; (2) evaluation and prequalification of existing and new building technology; (3) conduct investigations in direct support of building regulations and evaluation of new technology; and (4) assembly, storage, and dissemination of technical data and other information directly related to the preceding areas.

### Standardization Activities

Improves the regulatory environment and facilitates the introduction of new and existing products and technology into the building process. Advises both the public and private sectors of the economy with respect to the use of building science and technology in achieving nationally acceptable standards and other technical provisions for use in federal, state, and local housing and building regulations. Publications and services are available to all those who procure, design, construct, use, operate, maintain, and retire physical facilities. Services of the Institute are also useful to other public and private organizations which perform related research and other tasks on which building standards and regulations are based.

The members of the Institute elect a 36-member Consultative Council which provides a direct line of communications with all appropriate trade, professional and labor organizations, private and public standards, code and testing bodies, public regulatory agencies and consumer groups. The Council is responsible for

overseeing the consensus procedures and conduct of consensus activities of the Institute.

Using Compact Disc-Read Only Memory (CD-ROM) technology, the Institute publishes the Construction Criteria Base (CCB). The CCB contains guide specifications, design and construction criteria and standards developed and used by various federal construction agencies. Many of the public and private standards referenced in the guide specifications, including model codes, are contained in the CCB which is available on a subscription basis.

**Availability**

Distributed directly.

**Keywords**

housing; building; performance criteria; technology; regulations; guide specifications;

**NATIONAL INSTITUTE OF INFANT SERVICES**

John A. Shiffert, Executive Director

Diaper Service Accreditation Council  
2017 Walnut Street  
Philadelphia, Pennsylvania 19103  
(215) 569-3650

Founded: 1938

Standards Staff: 1

**Type of  
Organization**

Scientific Society  
Standards Developer

**Certification**

Sponsors an autonomous professional Diaper Service Accreditation Council which has promulgated standards for plant sanitation, customer service, and marketing practice. The council accredits diaper service applicants who go through self-evaluation and inspection by an independent site committee for evaluation against the standards. Accredited members must maintain all standards as they may be changed in annual review by the council.

**Scope**

Conducts research into the requirements of diaper processing to meet the sensitivity of infant skin.

**Standardization  
Activities**

Standards are established through a process by which an independent accredited medical laboratory under the supervision of a clinical pathologist conducts microbiological and patch test studies on infants to establish standards. The laboratory then devises testing procedures by which random sample diapers can be tested routinely against the prescribed standards.

Standards are raised from time to time as new knowledge is revealed by the continuing research program. The diaper test now include five major areas: (1) a sanitary score, awarded on the basis of microorganisms found on the sample; (2) a pH test by the calorimetric procedure, to show that the sample meets the acceptable range of 4.5 to 6.5; (3) evidence of impregnation of the sample with an EPA-approved bacteriostat; (4) a softness test with freedom from stiffness or spilling; and (5) an absorbency test so that water added drop by drop enters the fabric immediately. A diaper service must meet these standards in order to establish qualification and maintain membership.

<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Merger of the Diaper Service Industry Association and the National Institute of Diaper Services (1971)
<b>Keywords</b>	infant service; public health; diapers; consumer products;

#### NATIONAL INSTITUTE OF OILSEED PRODUCTS

Belva W. Jones, Executive Secretary

1101 Fifteenth Street, NW

Suite 202

Washington, DC 20005

(202) 785-8450

FAX: (202) 223-9741

Founded: 1934

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Certification</b>	Chemists Certification Program requires annual successful completion of the American Oil Chemists' Society Smalley Check Sample Series.
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<b>Scope</b>	An international trade organization with the principal objective of promoting the general business welfare of persons, firms and corporations engaged in the buying, selling, shipping, storage and use of vegetable oils and raw materials. Includes over 300 member firms in 26 countries.
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**Standardization Activities** Maintains and publishes annually, uniform trading rules to promote effective and efficient trading within the oilseeds industry. The publication includes not only the uniform trading rules, but also a list of certified chemists, samplers, and weighers; Tank Truck Guidelines; the FOSFA International and NIOP joint list of acceptable previous cargoes; and a complete membership roster.

Cooperates with the International Association of Seed Crushers (Europe), Philippine Coconut Oil Producers Association, Philippine Copra Exporters Association, and the U.S. Department of Agriculture in efforts to improve product quality and establish higher standards of trade practices, which are then incorporated in the rules.

**Availability** Distributed directly.

**Keywords** oil seed; vegetable oil; food; agriculture;

**NATIONAL INSURANCE CRIME BUREAU**

John G. Di Liberto, President and CEO

10330 South Roberts Road  
Palos Hill, Illinois 60465  
(708) 430-2430 FAX: (708) 430-2446

Founded: 1992 Standards Staff: 15

**Type of Organization** Service Organization  
Works through other organizations to develop standards

**Standards Development** Since 1975 the NICB through US DOT has assisted the US vehicle manufacturing industry in developing vehicle identification number standards and marking locations. Vehicle identification numbers and locations of specific markings are mandated by U.S. Department of Transportation (US DOT), and National Highway Traffic Safety Administration (NHTSA).

**Scope** The NICB formulates and implements policies for the prevention of vehicle theft, vehicle arson, and vehicle fraud as well as all types of insurance fraud. NICB cooperates with duly constituted public authorities in the prosecution of individuals engaged in vehicle and insurance related crimes.

The NICB is an agency for the location and identification of stolen vehicles and for the promotion of anti-vehicle theft and fraud activities. NICB is a crime prevention organization supported by more than 1000 property-casualty insurance companies,

providing assistance to law enforcement, insurance companies and the public.

**Standardization  
Activities**

Cooperates with vehicle manufacturers in the adoption of a standard vehicle identification number, as well as in a standard method of stamping and affixing such numbers.

NICB Prints and distributes to law enforcement agencies a Passenger Vehicle Identification Manual, a Commercial Vehicle Identification Manual, and a Manual for the Investigation of Vehicle Fires. NICB also prints and distributes to insurance companies, lists of potential fraud indicators for use in recognizing patterns which could indicate fraudulent activity. Services of the NICB are for the benefit of, not only the insurance industry and law enforcement, but the public as well.

**Availability**

NICB publications are available to government agencies, law enforcement agencies and the insurance industry by telephoning or faxing the National Insurance Crime Bureau.

**Formerly**

National Automobile Theft Bureau (1992)

**Keywords**

automobile theft; vehicle theft; law enforcement;

**NATIONAL KITCHEN AND BATH ASSOCIATION**

Paul A. Kohmescher, Executive Director

687 Willow Grove Street  
Hackettstown, New Jersey 07840  
(908) 852-0033 FAX: (908) 852-1695

Founded: 1963 Standards Staff: 5

**Type of  
Organization**

Trade and Professional Association  
Standards Developer

**Standards  
Development**

Develops standards which set guidelines for good kitchen and bathroom design.

**Certification**

Certified Kitchen Designers (CKD) and Certified Bathroom Designers (CBD).

**Scope**

More than 6000 members consisting of manufacturers, distributors, manufacturers' representatives, retailers and independent designers. Serves its members in setting design standards, promoting consumer awareness and providing educational opportunities.

<b>Standardization Development</b>	Develops and promulgates 31 guidelines on good kitchen design and 27 guidelines on good bathroom design.
<b>Availability</b>	Distributed directly to members and available to others upon request.
<b>Formerly</b>	American Institute of Kitchen Dealers (1983)
<b>Keywords</b>	kitchen; bathroom;

## **NATIONAL LIME ASSOCIATION**

Harry L. Francis, Technical Manager

200 N. Glebe Road  
Suite 800  
Arlington, Virginia 22203  
(703) 243-5463

FAX: (703) 243-5489

Founded: 1902

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Active in ASTM, AWWA, and other organizations in developing standards.
<b>Secretariats</b>	ASTM C7 on Lime; ASTM C12 on mortar; AWWA lime specification committee.
<b>Scope</b>	An association of commercial producers of quicklime and hydrated lime. Members provide about 85 percent of the commercial lime used in the United States - for steelmaking; water, sewage and waste treatment; sulfur dioxide removal from flue gasses; industrial chemicals; stabilization for road and airfield construction; mortar and plaster, etc.
<b>Standardization Activities</b>	Engages in committee work with American Society for Testing and Materials, American National Standards Institute, American Road and Transportation Builders Association, American Water Works Association, Air Pollution Control Association, Construction Specifications Institute, etc., in standards related to lime. Instrumental in working to develop specifications which will be reasonable and helpful to the hundreds of users of lime and lime products.

Publications include guidelines for using lime for Water Supply and Treatment; Lime Handling, Application & Storage in Treatment Processes; Lime Stabilization Construction Manual; Flexible Pavement Design Guide; Effective Use of Lime in Asphalt; Specifications for Lime and Its Uses in Plastering Stucco, Unit Masonry, and Concrete; Map of Commercial Lime Producers.

**Keywords**

lime; calcium oxide; calcium hydroxide; magnesium oxide; magnesium hydroxide; burnt lime; quick lime; hydrated lime; high calcium lime; dolomitic lime; mortar; soil stabilization; flue gas desulfurization; neutralization;

**NATIONAL LUBRICATING GREASE INSTITUTE**

Duane J. Fike, General Manager

4635 Wyandotte Street  
Kansas City, Missouri 63112  
(816) 931-9480

FAX: (816) 753-5026

Founded: 1933

Standards Staff: 1

**Type of  
Organization**

Trade Association/Technical Society  
Standards Developer

**Standards  
Development**

200 members active in standards development.

**Standards  
Designation**

NLGI.

**Certification**

NLGI Reference Systems available for use as research tools in the development and evaluation of lubricating grease formulations.

**Scope**

A technical society whose objectives are the development of better lubricating greases for the consumer and better grease lubricating engineering service to the industry. Collects and disseminates technical data.

**Standardization  
Activities**

Develops standards within ASTM and Recommended Practices with SAE. Also maintains liaison with other groups including API, STLG, Independent Lubricant Manufacturers Association (ILMA), National Petroleum Refiners Association (NPRA), and Petroleum Packaging Committee (PPC). Maintains Technical Committee charged with developing data pertinent to the manufacture, standardization, and application of industry products. Works with ISO to develop standardized definitions. Developed NLGI Chassis and Wheel Bearing Service Classification

System. NLGI consistency numbers recognized worldwide as the measure of one important grease characteristic. Cooperates with various Government agencies including DoD, NIST, FTC, and ICC.

**Availability** Distributed directly.

**Formerly** National Association of Lubricating Grease Manufacturers, Inc. (1936)

**Keywords** greases; lubricants; petroleum products; consistency number; materials;

#### **NATIONAL MARINE ELECTRONICS ASSOCIATION**

Cathryn Moyer, Executive Director

7074 Bembe Beach Road  
Suite 203  
Annapolis, Maryland 21403  
(410) 263-1742

FAX: (4105) 263-1743

Founded: 1957

Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards Committee composed of design engineers, representing manufacturers and service dealers of marine electronic communication and navigation equipment. Committee membership is on a voluntary basis and functions under a chairman at the direction of the association Board of Directors.

**Standards Designation** NMEA 0180, NMEA 0182, NMEA 0183.

**Representation** IEC/TC 80/WG 6, Digital Interfaces

**Scope** A nonprofit trade association of companies involved in the manufacture, distribution, sales and service of ship-board marine electronic devices for communications, navigation, automation and acoustics. Aims to distribute industry information, contribute to United States and international rules and regulations and provide leadership to improve quality of industry.

**Standardization Activities** Beginning in 1980, established standard interface formats for transmission of data communications between marine electronic equipments to eliminate incompatibility among manufacturers and facilitate the ability of sellers and purchasers to interchange devices regardless of brands. Standards in use



throughout the worlds by voluntary application. In 1988, a working group (WG 6) was established by TC 80 of the IEC to produce a draft standard for digital interface for navigation equipment within a ship. NMEA, working through ANSI, is the technical committee representing the United States, IEC TC 80. The NMEA 0183 Standard will be adopted as official international standard, IEC 1162-1 (single talker/multi-listener). Work is underway by the NMEA to develop a low cost instrument network standard (multi-talker/multi-listener), future IEC 1162-3.

**Availability**

Distributed directly.

**Keywords**

marine electronics; navigation; data transmission;  
telecommunications;

**NATIONAL MODEL RAILROAD ASSOCIATION**

Deborah Z. Millard, Office Manager

4121 Cromwell Road

Chattanooga, Tennessee 37421

(615) 892-2846

FAX: (615) 899-4869

Founded: 1935

Standards Staff: 1

**Type of  
Organization**

Service Organization  
Standards Developer

**Standards  
Development**

Has developed standards since 1936.

**Standards  
Designation**

NMRA Standards.  
NMRA Recommended Practices.

**Certification**

Grants an NMRA Conformance Warrant to products conforming to NMRA standards after the Conformance-Inspection Committee checks manufactured products for compliance. Items meeting the standards and specifications are granted an NMRA Conformance Warrant which may be used in advertising as long as continued compliance is indicated by repeat inspections.

**Scope**

Advances the hobby of scale model railroading through the development, adoption, and regulation of standards; promotes cooperation and understanding between producers and users of hobby materials; and increases opportunities for fellowship among model railroaders. Membership comprises about 27 000 persons active in the field in the United States and throughout the world.

Standardization Activities	<p>Establishes and maintains design standards for the manufacture of components for use in the hobby. These are intended to insure interchange between items produced by various sources and to improve performance. Adopted in 1936, specifications have been followed continuously by producers of scale railroad models and parts since that time, including refinements as the state of the art progressed.</p> <p>Standards define track and wheel relationships, electrical power specifications, and clearance dimensions between rolling stock and trackside structures. NMRA recommended practices cover desirable characteristics other than those necessary for physical interchange and are intended to enable manufacturers to improve their product in a manner most suited to the user's needs. A General Engineering Committee is charged with responsibility for development of standards and recommended practices.</p>
Availability	Distributed directly.
Keywords	scale models; railroads; hobby; recreation;

#### NATIONAL OAK FLOORING MANUFACTURERS ASSOCIATION

	Walter Whitley, Executive Vice President
	<p>22 North Front Street          660 Falls Building          Post Office Box 3009          Memphis, Tennessee 38103          (901) 526-5016</p>
	FAX: (901) 526-7022
	Founded: 1909
	Standards Staff: 2
Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1920.
Standards Designation	Official Floor Grading Rules; OFI/NOFMA.
Certification	Use of the association's registered trademark "NOFMA" is granted to members whose stock of oak flooring has been found to comply with the association's official grading rules. Maintains a reinspection service available to retail dealers who purchase products of member companies in the event there is doubt concerning the quality of stock purchased.

Scope	Manufacturers of hardwood flooring. Promotes standardization; conducts grade labeling and inspection services; maintains research program in grading, handling, packaging, and installation. Compiles statistics and sponsors installation school. An affiliate of the National Forest Products Association. Works with the VA, FHA, and other Government agencies dealing with housing, also the National Association of Home Builders, and the National Lumber and Building Material Dealers Association.
Standardization Activities	Standardization and simplification activities carried on by its Grading, Milling, and Inspection Committee. Adopted official rules on oak, birch, beech, hard maple, and pecan flooring which cover in detail the grades and sizes of quartered and plain sawn stock. Cooperates with the federal government in the formulation of the federal specification for hardwood flooring (Lumber and Timber: Hardwood, MM-L-736C), which includes references to the grading rules of the association. Maintains rigid supervision of species, manufacturing, kilndrying, bundling, and other features pertaining to oak, birch, beech, and hard maple so that sizes and grades will be maintained.
Availability	Sold directly.
Formerly	Oak Flooring Manufacturers of United States (1930) Southern Oak Flooring Industries (1933)
Keywords	oak; grading rules; inspection; flooring; wood floors; lumber; building; wood products;

#### NATIONAL OILSEED PROCESSORS ASSOCIATION

Sheldon J. Hauck, President

1255 23rd Street, NW  
Washington, DC 20037  
(202) 452-8040

FAX: (202) 833-3636

Founded: 1930

Standards Staff: 2

Type of  
Organization

Trade Association  
Standards Developer

Certification

Provides certification for Official Weighmasters; Automatic Sampler Installation at Vessel Loading Facilities; and Automatic Sampler Installation at Barge Loading Transfer Facilities.

<b>Scope</b>	Thirteen regular member firms engaged in the actual processing of oilseeds; 25 associate member firms who are consumers of vegetable oil or oilseed meal, including some refiners and mixed feed manufacturers. Promote the domestic and international marketing of all types of oilseed products through development of equitable trading rules for buyers and sellers of such products; foster intense research activity aimed at improving and increasing yields and productivity of oilseed crops; promote the sale of oilseed products internationally; and educate domestic and international consumers to the benefits of utilizing oilseed products.
<b>Standardization Activities</b>	Adopts standard specifications for crude, domestic soybean oil covering quality, grade, and methods of analysis. Establishes recommended soybean oil and meal trading rules. Helps establish product definitions for the formula feed industry.
<b>Availability</b>	Sold directly.
<b>Formerly</b>	National Soybean Processors Association (1929-1989)
<b>Keywords</b>	soybean meal; soybean oil; agriculture;

#### **NATIONAL PARTICLEBOARD ASSOCIATION**

	Rich Margosian, Executive Vice President
	18928 Premiere Court Gaithersburg, Maryland 20879 (301) 670-0604
	FAX: (301) 840-1252
	Founded: 1960
	Standards Staff: 3
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	Active Standards: 4 active standards. 2 ANSI standards.
<b>Standards Designation</b>	NPA or ANSI prefixes.
<b>Government Adoption</b>	The U.S. Department of Housing and Urban Development references 2 standards.
<b>Certification</b>	Certification of products for particleboard and medium density fiberboard producers.

Secretariats	ANSI A 208, standards developed by the canvass method.
Scope	Represents manufacturers of particleboard and medium density fiberboard to governmental agencies, sponsors voluntary standards development activities, compiles industry statistics, coordinates product and application research, and publishes technical and promotional literature.
Standardization Activities	Eighteen member companies and 40 non-NPA companies, agencies, and interested parties participate in standards activities. NPA currently sponsors four industry standards: ANSI A208.1-1989 Wood Particleboard; ANSI A208.2-1986 Medium Density Fiberboard For Interior Use; NPA 9-87 Voluntary Standard for Formaldehyde Emission From Medium Density Fiberboard (MDF); NPA 1-82 Standard for particleboard Mobile Home Decking.
Availability	Sold directly and through ANSI.
Keywords	particleboard; fiberboard; formaldehyde; wood products; wood panels;

#### NATIONAL PEST CONTROL ASSOCIATION

	Richard D. Kramer, Director of Research, Education & Technical Resources
	8100 Oak Street Dunn Loring, Virginia 22027 (703) 573-8330                      FAX: (703) 573-4116
	Founded: 1933                      Standards Staff: 3
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	ASTM, NIBS, DOD, HUD, USDA
Scope	Represents the urban pest control industry in the United States. Member firms engage in control of insect, and certain vertebrate pests. These pests left to multiply in urban or suburban centers would damage stored food, wood based dwellings, or actively transmit organisms that result in fatal or debilitating human disease. Although NPCA has many international members its major function is to represent domestic urban pest control interests.
Standardization Activities	Publishes specific guidelines such as Good Practice Statements and various reference procedures that are developed by technical and/or management committees and formally approved in some cases by vote of the entire membership or by vote of its board of directors. NPCA works actively on ASTM committee E-35 and D225 and committees of the National Institute of Building



Sciences, particularly Indoor Air Quality. Both organizations promulgate standards that involve aspects of urban pest management.

**Keywords** pest control; vector control; insect control; rodent control; structural protection; subterranean termite control; indoor air quality; public health; sanitation;

#### **NATIONAL PRINTING INK RESEARCH INSTITUTE**

J. M. Fetsco, Technical Administrator

Sinclair Lab Building #7  
Lehigh University  
7 Asa Drive  
Bethlehem, Pennsylvania 18015  
(610) 758-3588

Founded: 1946                      Standards Staff: 2

**Type of Organization** Scientific Society

**Scope** Engages in projects to investigate problems of mutual interest to the printing ink and printing industries.

**Standardization Activities** Publishes raw material data handbooks on materials used in manufacturing printing ink. Coordinates with ASTM on developing test methods used within the printing ink industry. Develops monographs on subjects of interest to the printing ink industry.

**Availability** Distributed directly.

**Keywords** ink; printing ink; communications;

#### **NATIONAL PROPANE GAS ASSOCIATION**

Bruce J. Swiecicki, Vice President, Technical Services

1600 Eisenhower Lane  
Lisle, IL 60532  
(708) 515-0600

FAX: (708) 515-8774

Founded: 1931                      Standards Staff: 3

Type of Organization	Trade Association Works through other organizations to develop standards.
Representation	Representatives on Standards Committees of ANSI, ASTM, NFPA, ASME and API.
Scope	A vertically structured national trade association of companies and individuals involved in the production, transportation, distribution, and marketing of liquefied petroleum gas.
Standardization Activities	Provide input to and representation on various standards making organizations. Focus is on standards associated with the safe handling and use of LP-Gas and the associated equipment and material.
Keywords	energy; safety; liquified petroleum gas; LP-Gas;

#### NATIONAL RETAIL FEDERATION

Tracy Mullin, President

Liberty Place  
325 7th Street, N.W.  
Suite 1000  
Washington, DC 20004-2608  
(202) 783-7971

FAX: (202) 737-2849

Founded: 1911

Standards Staff: 4

Type of Organization	Trade Association Standards Developer
Standards Development	No NRF standards are processed through ANSI. Standards are developed by committees of the membership.
Scope	The nations largest trade association representing the general merchandise retail industry with 4500 individual corporate members operating approximately 45 000 department, chain, specialty and independent stores in the United States and an additional 1000 stores in 50 nations abroad. NRF's members' aggregate domestic sales are in excess of \$150 billion annually and they employ more than three million workers. Devoted to the exchange of information among retailers and to research and education. Takes an active part in the formulation of standards and specifications relative to retail store organization, retail trade terminology, business practices, and specifications for commodities used in the trade. Cooperates actively with ANSI and other technical and trade organizations and the government.

<b>Standardization Activities</b>	Endorsed the Universal Product Code (UPC) for uniform merchandise identification acceptable to both general merchandise retailers and vendors. Develops and maintains standard color and size codes for common usage between retailers and manufacturers. Participates in the General Merchandise and Apparel Implementation Committee of the Uniform Code Council (secretariat for the UPC) in standards definition and approval for merchandise marking, shipping, container labeling and identification and definition of standards for ANSI X.12 Electronic Data Interchange (EDI) fields, usage and transaction sets. Is active on the EDI Advisory Committee of the Uniform Code Council and in the Federation of Automated Coding Technologies (FACT). Offers the Standard Color and Size Code Handbook.
<b>Formerly</b>	National Retail Merchants Association (1990)
<b>Keywords</b>	merchandise; retailing; merchandise identification; sizes; business; consumer goods;

# **NATIONAL RIFLE ASSOCIATION OF AMERICA**

<b>Type of Organization</b>	Wayne R. LaPierre, Jr., Executive Vice President  11250 Waples Mill Road Fairfax, Virginia 22030-7400 (703) 267-1000 FAX: (703) 267-3989 e-mail: nra-contact@nra.org  Founded: 1871 Standards Staff: 2
<b>Certification</b>	Standards for paper targets are enforced through a licensee process. When the specified standards are met, an "Official NRA Target" designation is given to the manufacturer for printing on the target. The NRA certifies marksmanship and firearm safety instructors, referees, and coaches; and approves, when certain standards have been met, training and qualification courses for police departments, shooting range safety officers, and military and civilian rifle and pistol clubs. The NRA sets safety standards for firearms instruction courses and ranges, and is recognized as the leader of firearm safety education in the United States.
<b>Scope</b>	Nonprofit membership organization with more than 3.3 million members and 12 000 affiliated local clubs and state organizations all interested in firearms or the shooting sports.

<b>Standardization Activities</b>	Prepares and provides standard construction plans for a large variety of shooting ranges for different guns and events. Also standardized are paper and metal targets used in training and competition. These standards are researched and established by various specialized program committees and channeled through NRA's Competition Rules and Programs Committee and Board of Directors. Standards are included in annually revised competitive rule books, in annual meeting reports, and special shooting range literature and program outlines and manuals.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	shooting ranges; targets; safety; recreation; sports; firearms training;

#### NATIONAL ROOF DECK CONTRACTORS ASSOCIATION

	Tom Barnkemp, President
	11 South LaSalle Street Suite 1400 Chicago, IL. 60603 (312) 201-0101
	FAX: (312) 201-0214
	Founded: 1959
	Standards Staff: 1
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	Promotes the welfare of the structural roof deck systems industry by analyzing and informing the membership of conditions affecting the industry, informing the membership of improved operating methods and procedures, and conducting education and research activities.
<b>Standardization Activities</b>	Develops or assists in the development of standard tests and test methods for industry products. Participate in model code development and with other government and public bodies involved with building, construction, and the installation of structural roof deck systems.
<b>Formerly</b>	Gypsum Roof Deck Foundation Association (1980)
<b>Keywords</b>	built-up roofing; building;

**NATIONAL ROOFING CONTRACTORS ASSOCIATION**

William A. Good, Executive Vice President

10255 W. Higgins Road  
Suite 600  
Rosemont, IL. 60018  
(708) 299-9070                      FAX: (708) 299-1183

Founded: 1886                      Standards Staff: 1

Type of Organization              Trade Association  
Standards Developer  
Works with other organizations to develop standards

Scope                      Contractors applying membrane, metal, sprayed foam, slate, tile, and wood roofs. Sponsors instruction for roofing superintendents and holds management institutes.

Standardization Activities              Dedicated to the improvement of systems standards for all roofing systems. Studies materials and application procedures and standards through various technical committees. Has joint liaison groups with various materials manufacturer organizations and government bodies. Conducts test programs with other industry organizations on a joint basis. Aims to enhance the development of improved material and application standards for the roofing industry.

Produced a Roofing and Waterproofing Manual that provides recommended procedures, practices and evaluative comments on roofing specifications, construction details, and roofing materials. Cooperates with the National Institute of Standards and Technology to conduct technical conferences. Also conducts an international symposium on roofing technology every five years.

Availability              Distributed directly.

Keywords              roofing; building;

**NATIONAL SAFETY COUNCIL**

Ronald J. Koziol, Standards Administration

1121 Spring Lake Drive  
Itasea, Illinois 60143-3201  
(708) 285-1121                      FAX: (708) 285-1315  
WWW: <http://www.nsc.org/nsc>

Founded: 1913                      Standards Staff: 6



Type of Organization	Technical Society Works through other organizations to develop standards
Representation	ANSI, UL
Secretariats	ANSI A10, D16, Z16, Z41, Z244, Z365
Scope	A nonprofit, nongovernmental public service organization. Aims to determine and evaluate methods and procedures that prevent accidents and mitigate injury and economic loss resulting from accidents, and to provide leadership to expedite the adoption and use of those methods and procedures that best serve the public interest. Functions in the areas of occupational safety and health, traffic safety, motor transportation safety, product safety, and consumer safety.
Standardization Activities	Focuses on standards concerned with safety of products or systems and with accident/injury record systems. In its materials and publications, references all of the appropriate codes and standards adopted by nationally recognized consensus standard producing organizations. Represented on ANSI's Organizational Member Council, the Safety and Health Standards Board, and the ANSI/OSHA Coordinating Committee.
Keywords	safety; accident prevention; occupational health; traffic safety; consumer products; social welfare;

#### NATIONAL SASH AND DOOR JOBBERS ASSOCIATION

Robert T. O'Keefe, Executive Vice President

2400 E. Devon Avenue, Suite 314

Des Plaines, Illinois 60018

(708) 299-3400

FAX: (708) 299-0489

Founded: 1964

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	Promotes the use and increased consumption of stock millwork and related building products, including new products; advocates and promotes the sale of such products through sash and door jobbers; promotes the growth of the industry.
Standardization Activities	The association supports the development of standards related to window and door products. In cooperation with the National Wood, Window and Door Association (NWWDA), helped prepare and further commercial standards relating to double hung casement, awning, and single hung wood window units which have been incorporated into NWWDA's Industry Standard 2.

**Formerly** Formed by the merger of the Northern Sash and Door Jobbers Association (1935) and the Southern Sash and Door Jobbers Association (1935)

**Keywords** windows; doors; sash; millwork; building; wood products;

**NATIONAL SCHOOL SUPPLY AND EQUIPMENT ASSOCIATION**

Tim Holt, Executive Vice President

8300 Colesville Road  
Suite 250  
Silver Spring, Maryland 20910  
(301) 495-0240 FAX: (301) 495-3330

Founded: 1916 Standards Staff: 1

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Certification** Issues certification when operable and folding walls are tested for sound transmission loss in accordance with ASTM E90.

**Scope** Manufacturers and distributors of school supplies, equipment, and instructional materials. Operating Divisions address the needs of manufacturers and users of auditorium, theater, bleacher, and classroom seating, as well as play ground equipment, and operable partitions.

**Standardization Activities** Operable Partition Section of NSSEA has endorsed ASTM E557-77 which provides a standard for the application and installation of operable partitions. Also issues testing procedures for measuring sound transmission loss.

**Availability** Distributed Directly.

**Formerly** National School Service Institute (1958)

**Keywords** partitions; school equipment; noise control; education; buildings;

## NATIONAL SKI AREAS ASSOCIATION

Sid Roslund, Director of Technical Services

133 S. Van Gordon  
Suite 300  
Lakewood, Colorado 80228  
(303) 987-1111

FAX: (303) 986-2345

Founded: 1962

Standards Staff: 1

### Type of Organization

Trade Association  
Standards developer

### Standards Development

Standards Developer since 1963.

### Government Adoption

U.S. Department of Agriculture Forest Service, and  
states where skiing exists.

### Secretariat

National Ski Areas Association

### Scope

A trade association of ski area operators and suppliers of ski equipment. Twelve hundred members located in all states and several foreign countries. Aims are to promote skiing and safety in skiing, to protect natural resources in meeting the needs of the skiing public and ski area operators, and to ensure legitimate interests of ski area operators.

### Standardization Activities

Maintains committee composed of operators, users, authorities having jurisdiction, manufacturers and independent specialists of aerial ropeways. Developed the American National Standard B77.1 for Passenger Tramways and Lifts, Surface Lifts, and Tows. Promotes this standard for the ropeway industry, used by ski lift manufacturers, ski area personnel, ski area insurance programs, and state and federal authorities having jurisdiction.

### Availability

Distributed through ANSI.

### Keywords

aerial tramways; cable cars; cableways; ski lifts; sports; skiing; recreation; ropeways;

## NATIONAL SOFT DRINK ASSOCIATION

William L. Ball, III., President

1101 16th Street NW.  
Washington, DC 20036  
(202) 463-6732

FAX: (202) 463-8178

Founded: 1919

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Three active standards.
Standards Designation	VPS, ANSI/VPS, and VS prefixes.
Government Adoption	PS 73-89 Carbonated Soft Drink Bottles (1989)
Scope	Provides manufacturers of soft drinks throughout the United States and others interested in the welfare of the industry a forum to discuss matters of common interest, provides a medium for improving soft drink plant operating procedures, conducts research on problems relating to the industry, and provides informational and educational services in the interest of the consumer.
Standardization Activities	Instrumental in the development of voluntary standards or guide lines, designed for the betterment of the consumer and the bottling and packaging activities of the industry.
Availability	Sold directly, through Government Printing Office, and ANSI.
Formerly	American Bottlers of Carbonated Beverages (1967)
Keywords	soft drinks; beverages; packaging;

#### NATIONAL SPA AND POOL INSTITUTE

Carvin Di Giovanni, Technical Director

2111 Eisenhower Avenue  
 Alexandria, Virginia 22314  
 (703) 838-0083 FAX: (703) 549-0493  
 e-mail: R.Galvin.NSPI@MCIMAILCOM

Founded: 1956 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
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Scope	A national trade association comprised of approximately 4800 swimming pool builders, manufacturers, pool equipment manufacturers and suppliers, architects, engineers, public officials, and others allied with the pool industry. Sets guidelines and ethical standards for pool builders and service technicians by certification and education programs and adherence to ANSI Standards.
Standardization Activities	Accredited by the American National Standards Institute (ANSI) as the United States standards developer for voluntary standards for residential in ground, residential aboveground (on ground) and public swimming pools; residential (portable and in ground) and public spas/hot tubs. Cooperates with the American Public Health Association, National Institutes of Health Center For Disease Control and Prevention, U.S. Consumer Product Safety Commission, National Safety Council, Underwriters Laboratories, National Sanitation Foundation, National Electrical Code, National Building Code Groups (BOCA, SBCCI, ICBO, CABO), National Recreation and Park Association and the Young Men's Christian Association (YMCA). Provides information and assistance to a number of government agencies and maintains liaison to a number of international swimming pool and spa organizations such as Aqua Europa, Administers technical committees in the areas of dimensional design, chemical treatment, circulation systems, accessory equipment and publications.
Availability	Distributed directly.
Keywords	swimming pools; spas; hot tubs; consumer products; safety; sanitation;

#### NATIONAL STANDARDS EDUCATORS ASSOCIATION

Walter J. McGee, Executive Director

Post Office Box 773  
Placentia, California 92670  
(714) 996-3682

Founded: 1987

Standards Staff: 3

Type of Organization	Industrial education association Works through other organizations to develop standards.
Representation	Many members represented on standards committees of organizations such as ASME, ANSI, and ISO.



<b>Certification</b>	The association has initiated its campaign for proficiency testing of the American work force in the field of dimensional metrology. In conjunction with the American Society of Mechanical Engineers, they have focused on the Y14 and B89 standards for its first personnel certification programs.
<b>Scope</b>	A nonprofit organization of 100 industrial executives, managers, engineers, technicians, educators, and students that promotes, within United States industrial and educational societies, the significance and expert knowledge of those standards in common use within American industry.
<b>Standardization Activities</b>	The association promotes the concept of "management by accountability." This concept fosters the use of certifications, accreditations, registrations, and licensures to combat the plague of standards illiteracy in America. It has warned industry that a nation that cannot relate to its own standards will not long be competitive in a global market requiring compliance to foreign and international standards. The association promotes testing of our industrial work force on proficiency in those standards and specifications common to their line of work.
<b>Keywords</b>	education; quality assurance; management; general;

**NATIONAL STONE ASSOCIATION - Pulverized Limestone Division**

Larry Quinlivan, Vice-President, Marketing

1415 Elliot Place, NW  
Washington, DC 20007-2599  
(202) 342-1100

FAX: (202) 342-0702

Founded: 1990

Standards Staff: 2

<b>Type of Organization</b>	Professional and Trade Association Standards Developer
<b>Standards Development</b>	The Technical Committee of the PLD is made up of representatives from member companies. The committee reviews standards and test procedures for application to the pulverized limestone industry. Recommendations for adoption are made by the committee to member companies based on their findings.
<b>Standards Designation</b>	The PLD makes standards limestone materials available to its members, these standards are designated "PLD Standard XX-Y" (where XX is the last two digits of the year, Y is a sequential designation).

<b>Certification</b>	No certification, qualification or accreditation program.
<b>Scope</b>	The Pulverized Limestone Division promotes the general improvement of the manufacture and sales of finely ground limestone products so that consumers and the general public will be better served by the industry.
<b>Standardization Activities</b>	The PLD standards and test procedures are made available to member companies to help assure consistent quality standards throughout the industry for the benefit of members and customers alike.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	minerals; agriculture;

#### NATIONAL TERRAZZO AND MOSAIC ASSOCIATION

Edward A. Grazzini, Executive Director

3166 Des Plaines Avenue

Suite 132

Des Plaines, Illinois 60018

(708) 635-7744

FAX: (708) 635-9127

Founded: 1923

Standards Staff: 5

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	25 active standards.
<b>Government Adoption</b>	All technical manuals and design catalogs are accepted by Government agencies.
<b>Scope</b>	Contractors who install terrazzo and mosaic work and firms which produce or manufacture materials. Provides information to building owners, architects, builders, and terrazzo contractors. Conducts research on installation methods.
<b>Standardization Activities</b>	Maintains a Technical Committee and Quality Control Committee active in standards development. Publishes Technical Data Book which contains 25 standard national specifications for the installation of both cementitious and resinous terrazzo. Also develops standards on various application and grinding techniques.

**Availability** Distributed directly.

**Keywords** terrazzo; mosaic; construction; building; materials;

**NATIONAL TIRE DEALERS AND RETREADERS ASSOCIATION**

Gurnie Hobbs, Director  
Membership Services Division

1250 I Street, NW  
Suite 400  
Washington, DC 20005  
(202) 789-2300 FAX: (202) 682-3999

Founded: 1921 Standards Staff: 4

**Type of Organization** Trade Association  
Standards Developer

**Scope** An organization of 5000 independent tire dealers and retreaders in the United States, Canada, and abroad. Concerned with matters which affect the tire dealer and his ability to do business including product development, marketing, legislation, new tires, retread, service, and after market areas. Heavily committed to retreading, NTDRA maintains a field force of six highly qualified plant inspectors, inspecting 800 retread plants annually.

**Standardization Activities** Develops recommended industry standards to keep the science of retreading at a high level.

**Availability** Distributed directly.

**Formerly** National Association of Independent Tire Dealers  
Absorbed the Tire Retreading Institute (1978)

**Keywords** tire; automotive service; automobile parts; retread; transportation;

**NATIONAL WOOD WINDOW AND DOOR ASSOCIATION**

Ric Markway, Vice President Technical Services

1400 E. Touhy Avenue  
Des Plaines, Illinois 60018  
(312) 299-5200 FAX: (312) 299-1286

Founded: 1926 Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since early 1920's. 9 product standards; 9 test methods: 20 percent ANSI.
Standards Designation	Industry Standards, I.S.
Government Adoption	HUD, Farmers Home Administration, DoD, and others
Certification	Wood Flush Door, Window, Sliding Patio Door, Swinging Patio Door, Skylights/Roof Windows, and Water Repellent Preservative Programs and National Fenestration Rating Council.
Scope	Represents over 130 manufacturers and material suppliers in the wood window and door industries.
Standardization Activities	Active in product standard research and development. Works with ASTM and ASHRAE in the development of standards for the industry. NWWDA standards are referenced by the federal government, architects, specifiers, builders, and building product suppliers.
Availability	Sold directly.
Formerly	National Woodwork Manufacturers Association (1986)
Keywords	windows; doors; millwork; building; wood products;

#### NATIONAL WOODEN PALLET AND CONTAINER ASSOCIATION

John J. Healy, Executive Vice President

1800 North Kent Street  
Suite 911  
Arlington, VA 22209-2104  
(703) 527-7667

FAX: (703) 527-7717

Founded: 1947

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Standards development was initiated in 1990 and 150 members and nonmembers participate. Developer of The Uniform Standard for Wooden Pallets which has been processed through ANSI.

<b>Certification</b>	SPEQ is a certification program affording pallet customers the opportunity to design a pallet specifically engineered to their performance needs. Once armed with a PDS design, adherence to the quality provisions of the standard is checked by an independent third party inspection service. Upon successfully passing periodic random audits, SPEQ suppliers/recyclers are recertified and permitted to mark their product to indicate compliance.
<b>Scope</b>	Trade association consisting of pallet and container manufacturers, recyclers, brokers, and associated industries. International membership exceeding 550 companies. NWPCA mission is to assist members to create cost-effective, environmentally responsible solutions to meet their customers changing unit load material handling needs. Primary activities include sponsoring industrial research and development, standards development, trade promotion, education, and legislative/regulatory monitoring.
<b>Standardization Activities</b>	Developed the first U.S. Industrial standard for the manufacture and repair of wood pallets. Introduced in 1994, and processed for adoption as an ANSI standard. Uniform Standard for Wood Pallets is a quality assurance standard designed to complement customer's pallet performance requirements and standards. Also complements the Pallet Design System (PDS), the first computer-aided design (CAD) system for wood pallets. PDS and the Standard serve as the base programs for the Specified Pallets, Engineered for Quality (SPEQ) Program.
<b>Availability</b>	Copies of the Standard are available directly from NWPCA.
<b>Formerly</b>	Merger of National Wooden Box Association and National Wood Pallet Manufacturers Association (1947)
<b>Keywords</b>	pallets; paletization, unit load management; packaging; containers;

#### NCCLS - THE CLINICAL LABORATORY STANDARDS ORGANIZATION

John V. Bergen, Ph.D., Executive Director

940 West Valley Road

Suite 1400

Wayne, Pennsylvania 19087

(610) 688-0100

FAX: (610) 688-0700

Founded: 1968

Standards Staff: 23

<b>Type of Organization</b>	Voluntary Consensus Standards Developer
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Standards Development	<p>Accredited by ANSI.</p> <p>Over 1800 scientists participate in 155 projects</p> <p>128 standards and guidelines available; 54 at approved level, 25 at tentative level, and 49 at proposed level</p> <p>Approximately 20 percent of NCCLS standards are processed through ANSI for designation as American National Standards</p> <p>179 active members (professional organizations, governmental agencies, industrial organizations)</p> <p>1600 corresponding members (hospitals, state agencies, universities, clinical laboratories, international organizations).</p>
Standards Designation	<p>NCCLS standards are designated by a code indicating the discipline, the project number, the publication level and, if applicable, the edition; e.g., GP18-P (General Laboratory Practices/Proposed), M2-A5 (Microbiology/Approved/5th Edition).</p>
Secretariats	<p>Administrator of ISO/TC 212, Clinical Laboratory Testing and In Vitro Diagnostic Test Systems; Technical Advisory Group ISO/TC 212; Technical Advisory Group ISO/TC 76, Transfusion, Infusion, and Injection Equipment for Medical Use.</p>
Certification	<p>Administers the National Reference System for the Clinical Laboratory (NRSCL) which provides the scientific basis to ensure that clinical laboratory tests results can be interchanged within defined limits of accuracy and precision.</p>
Scope	<p>An international, interdisciplinary, nonprofit organization that serves the world's medical science community by improving the quality of laboratory practices and medical testing through voluntary consensus processes. In addition to developing voluntary consensus standards and guidelines, NCCLS maintains a communication forum for its laboratory constituencies to address and resolve issues that are critical to laboratory quality. NCCLS's membership is made up of medical laboratory professional associations, agencies of the federal, state, and provincial governments, manufacturers of laboratory equipment and reagent products, trade associations, and individual health care provider institutions and clinical laboratories. Members participate in the development of proposed, tentative, and approved NCCLS standards and guidelines.</p>
Standardization Activities	<p>Develops standards in eight areas: clinical chemistry, evaluation protocols, general laboratory practices, immunology and ligand assay, hematology, microbiology, molecular methods, and alternate site testing.</p>

Publications focus on laboratory procedures, bench and reference methodologies, and scientific evaluation protocols, providing realistic standards and guidelines for clinical laboratory testing. Standards publications include those relating to antimicrobial susceptibility testing, blood collection, and clinical laboratory instrumentation.

**Availability**

Distributed directly. Interested parties may obtain a complimentary subscription to "Standards Status" providing announcements related to the status of NCCLS standards development including information on availability of proposed and tentative standards for review and comment, and announcements of publication of approved standards.

**Formerly**

National Committee for Clinical Laboratory Standards

**Keywords**

clinical chemistry; medical instruments; laboratory; testing; immunology; hematology; microbiology; ligand assay; molecular methods; public health; reference technology; physician's office laboratory; alternative site testing;

**NEBRASKA POWER LABORATORY**

Dr. Louis I. Leviticus

BSEL Building - East Campus  
University of Nebraska  
Lincoln, Nebraska 68583-0832  
(402) 472-2442 FAX: (402) 472-8367  
e-mail: BSEN011@UNLVM.UNL.EDU

Founded: 1926

**Type of  
Organization**

Testing, research and development organization  
Standards Developer

**Representation**

Represented on relevant SAE, ASAE and OECD committees  
as well as active in ISO Technical Advisory groups

**Certification**

Witness certification tests at manufacturer's facilities.  
Cooperates in performing laboratory services for other  
organizations and is active in international standards  
development. Chief activity is testing and research for  
performance, protective structure and noise testing of tractors  
according to SAE and OECD standards.

Standardization Activities	Develop new standards to meet new technology requirements such as test methods for new biofuels, including exhaust emissions testing.
Keywords	agricultural equipment; tractors; acoustics; emissions;
 <b>NETWORK MANAGEMENT FORUM</b>	
	Elizabeth Adams, Managing Director
	1201 Mt. Kemble Avenue Morristown, New Jersey 07960 (201) 425-1900 FAX: (201) 425-1515 e-mail: eadams@nmf.org
	Founded: 1988 Standards Staff: 9
Type of Organization	Nonprofit Industry Consortium
Standards Development	Create procurement and development specifications based on international standards in the telecommunications industry which serve as implementation agreements for automating and integrating management systems.
Standards Designation	Business level agreements designated as "SMART" Management systems interface specifications designated as OMNIPoint. Computing platform specifications designated as SPIRIT.
Government Adoption	Documents are used by DISA and are part of the GNMP document. Also adopted by Canadian, British and Australian governments.
Certification	No certification programs.
Scope	The NMF has more than 160 members in 30 countries. It is an international forum of telecom service providers, computer and communications system suppliers and enterprise network operators focused on the problems of managing complex service networks. It serves as a place where cross-industry, worldwide agreement can be reached on the key issues that enable timely deployment of high quality, cost effective telecommunications services.
Standardization Activities	NMF establishes working teams to investigate and determine business requirements, information exchange agreements and technical specifications. Work is done in conjunction with other standards bodies and organizations such as ITUT, ANSI T1, IETF, OIW, AOW, ETSI, X/Open, OSF, OMG, ATMF and ATIS.

The NMF does not create standards. Rather, it takes base standards, matches them to a specific business problem then refines them to a specific enough level of detail through the consensus of its membership so that interoperability between systems is assured.

Results are published in a series of guidebooks, papers, Solution Sets (specifications) and electronically.

**Availability**

Distributed directly, through Phillips Publishing and electronically at <http://www.nmf.org>.

**Keywords**

network management; service management; OSS; process re-engineering; telecommunications management;

**NORTH AMERICAN DIE CASTING ASSOCIATION**

Derek L. Cooks, Technical Director

2000 North Fifth Avenue  
River Grove, Illinois 60171-1992  
(312) 452-0700 FAX: (312) 452-0147

Founded: 1954 Standards Staff: 2

**Type of  
Organization**

Trade Association  
Works through other organizations to develop standards

**Scope**

A not-for-profit organization which serves the interests of its members with the overall objectives of improving industry technology productivity and profitability. Member services include providing information and statistics for managers, administrators and engineers. The association has active research and educational programs and produces a considerable number of publications of both technical and managerial nature.

**Standardization  
Activities**

The association maintains close links with organizations which set (or are involved with) standards pertaining to the die casting industry. These include the American National Standards Institute, the American Society for Testing Materials, Occupational Safety & Health Administration and the Environmental Protection Agency.

**Formerly** Consolidation of American Die Casting Institute and the Society of Die Casting Engineers

**Keywords** die casting; cast metals; net shape; metals;

#### **NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION**

Kenneth D. Mentzer, Executive Vice President

44 Canal Center Plaza  
Suite 310  
Alexandria, Virginia 22314  
(703) 684-0084 FAX: (703) 684-0427

Founded: 1933 Standards Staff: 1

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Members active in ASTM C16 and E6; ASHRAE TC 4.4; Model building code organizations; ISO committees concerned with insulation.

**Certification** Initiated, with NAHB Research Center, programs for the certification of mineral fiber batts, blankets, loose wool and metal building insulations.

**Scope** A nonprofit organization rendering services to promote energy-efficiency and environmental preservation through the safe manufacture and use of fiber glass, rock wool and slag wool insulation products.

**Standardization Activities** Develops standards and specifications, national in scope, referring to fiber glass, rock wool and slag wool insulation products. Cooperates with and advises government agencies at all levels on thermal performance standards that will contribute to the conservation of energy. Also advises and consults with other energy suppliers and professional organizations regarding standards, research, applications, and other related matters.

**Formerly** National Association of Rock and Slag Wool Industries (1933)  
National Rock and Slag Wool Association (1936)  
National Mineral Wool Association (1938)  
National Mineral Wool Insulation Association (1960)  
Mineral Insulation Manufacturers Association, Inc. (1978)  
Mineral Insulation Manufacturers Association



**Keywords** mineral wool; mineral fiber; rock wool; fiberglass; insulation;  
energy conservation; building; materials;

**NORTHEASTERN LUMBER MANUFACTURERS ASSOCIATION**

Stephen S. Clark, Executive Vice President

272 Tuttle Road  
Post Office Box 87A  
Cumberland Center, Maine 04021  
(207) 829-6901 FAX: (207) 829-4293

Founded: 1933 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Scope** A nonprofit, private organization that promotes the welfare and advancement of the interests of northeast lumber producers.

**Standardization Activities** A grading agency under the ALSC; maintains a Grading Committee which develops Standards and NELMA Grading Rules. Also serves as the rules writing agency for the northeast for the American Lumber Standards Committee Board of Review. Administers National Grading Rule for Dimension Lumber.

**Availability** Distributed directly.

**Keywords** lumber; timber; grading rules; inspection; wood; building;

**NORTHERN TEXTILE ASSOCIATION**

see **ELASTIC FABRIC COUNCIL**  
and **FELT MANUFACTURERS COUNCIL**

**NSF INTERNATIONAL**

Diana Knoll, Publications Supervisor

3475 Plymouth Road  
Ann Arbor, Michigan 48105  
(313) 769-8010 FAX: (313) 769-0109  
WWW: <http://www.nsf.com>

Type of Organization	Standards Developer and Testing Organization
Standards Development	Standards developer since 1944. 43 active standards and criteria. Voluntary program involving the active cooperation and participation of the manufacturer, the user, and the regulatory officials. Accredited by ANSI. 33 standards processed through ANSI.
Government Adoption	Many United States regulatory jurisdictions require by law, regulations, or department policy, products which comply with NSF standards or criteria.
Certification	Products determined in compliance with NSF standards or criteria by NSF Certification Services are authorized for listing and display the NSF Mark.
Scope	A noncommercial and not-for-profit standards writing, research, testing, and educational organization. Seeks answers in environmental health and establish public and environmental health standards with the cooperation of all concerned.
Standardization Activities	Involves approximately 2300 domestic and foreign manufacturers who use the NSF Mark on products meeting the applicable standard or criteria. Publishes and distributes a list of available standards as well as annual listings covering food service equipment, plastic piping system components and materials, swimming pool equipment, drinking water direct and indirect additives, and special categories, including plumbing components for mobile homes and recreational vehicles, water and wastewater treatment devices, bio-hazard cabinetry, and flexible membrane liners and environmental management systems.
Availability	Distributed directly and through IHS and Global.
Formerly	National Sanitation Foundation
Keywords	food equipment; plastic pipe; swimming pool; mobile homes; recreational vehicles; water; waste; environment; public health; sanitation; building; environmental management; drinking water additives;

## OPTICAL LABORATORIES ASSOCIATION

Robert L Dziuban, Executive Director

P.O. Box 2000  
Merrifield, Virginia 22116-2000  
(703) 359-2830 FAX: (703) 359-2834

Founded: 1894 Standards Staff: 1

### Type of Organization

Trade Association  
Standards developer

### Representation

Represents its American members to both ASTM and ANSI by providing relevant data and input to the creation of consensus standards which affect the manufacturer, laboratory, professional, and consumer.

### Secretariats

ANSI Committee Z80, Ophthalmic Standards

### Scope

An association for independent ophthalmic prescription eyeglass and contact lens fabricators located in the United States, Canada, and other foreign countries.

### Standardization Activities

Its primary objective is the creation and maintenance of voluntary standards which meet the safety and effectiveness needs of the consumer by providing products which perform within the current state of the manufacturing art.

Participates with industry and professionals in the maintenance of existing standards to eliminate design in favor of performance requirements wherever possible, and to keep industry standards in line with advances in technology. As new technologies develop, the Association assumes an active role in the assessment of proper performance standards and testing techniques.

### Availability

Distributed directly.

### Formerly

American Association of Optical Wholesalers (1894)  
Central States Wholesalers Association (1939)  
Association of Independent Optical Wholesalers (1942)  
Optical Wholesalers Association (1962)  
Optical Laboratories Association (1977)

### Keywords

ophthalmic products; eyeglass; spectacle; contact lens; optical laboratory; low vision aids; intraocular lenses; ophthalmic instruments; frames; sunglasses;

## OPTICAL PRODUCT CODE COUNCIL

Administrator:  
Optical Industry Association  
6055A Arlington Boulevard  
Falls Church, Virginia 22044  
(703) 237-8433 FAX: (707) 237-0643

Founded: 1984 Standards Staff: 1

Type of Organization Trade Association  
Works with others to develop standards

Representation Central management and information center for manufacturers and users of bar code system.

Secretariats ANSI; ASCII

Scope An association of manufacturers of frames, lenses, and contact lenses in the United States who are users of a standard ordering system for the efficient transfer of products from component manufacturers to processing laboratories.

Standardization Activities The primary objective is the creation and maintenance of voluntary standards for computerized product coding using bar code and data transmission specifications.

Availability Distributed directly.

Keywords optical frames; lenses; ophthalmic products;

## OPTICAL SOCIETY OF AMERICA

Margaret Edjill, Program Development Manager

2010 Massachusetts Avenue, NW  
Washington, DC 20036  
(202) 416-1960 FAX: (202) 223-1096  
WWW: <http://www.osa.org>  
WWW: [http://prog\\_dev@osa.org](http://prog_dev@osa.org)

Founded: 1916 Standards Staff: 1

Type of Organization Scientific Society  
Standards Developer

Scope Primary purpose is to increase and diffuse the knowledge of optics in all its branches, pure and applied; to promote the mutual interests of investigators of optical problems, of designers, manufacturers, and users of optical instruments and apparatus of all kinds; and to encourage cooperation among them.

**Standardization  
Activities**

Standardization and specification work is handled by a joint society committee which publishes reports in the society's journal on visual sensitometry; colorimetry; photometry; standard wavelengths; nomenclature and standards; photography; radiometry; and spectrophotometry. The most elaborate of these technical reports appeared as a book, *The Science of Color*, and as a set of uniformly spaced color samples. Cooperates with other technical organizations in standardization within the various branches of optics. Has a standing committee for review of ISO standards. Cooperates actively with the International Commission for Optics, the International Commission on Illumination and the American National Standards Institute. Maintains representation on boards or committees of the American Institute of Physics, the National Research Council, the American Association for the Advancement of Science, and the Inter-Society Color Council.

**Availability**

Sold directly.

**Keywords**

optics; optic instrumentation; colorimetry; photography;

**ORTHOPEDIC SURGICAL MANUFACTURERS ASSOCIATION**

Max Sherman, Executive Secretary

Post Office Box 1846

Warsaw, Indiana 46581-1846

(219) 269-1928

FAX: (219) 267-3845

Founded: 1955

**Type of  
Organization**

Trade Association

Works through other organizations to develop standards

**Representation**

ASTM, ISO, and ANSI

**Scope**

Manufacturers and distributors of orthopedic devices and instrumentation used in reconstructive surgery done by orthopedic surgeons. Established to promote the patient's best interest by standardization of materials and sizing. Develops guidelines, fosters research, disseminates knowledge and information relating to scientific and practical problems, cooperates with professional health associations, interfaces with governmental agencies, and promotes high ethics in all phases of the surgical supply industry.



**Standardization Activities** 24 member firms have employees active in development of medical device standards. Representatives serve as officers and members of various standards development organizations including ASTM, ISO, and ANSI. They participate in policy making decisions and in the content of test methods and standards pertaining to medical devices.

**Keywords** orthopedic surgery; medical devices;

#### OUTDOOR POWER EQUIPMENT INSTITUTE

Dennis C. Dix, President and CEO

341 South Patrick Street  
Alexandria, Virginia 22314  
(703) 549-7600 FAX: (703) 549-7604

Founded: 1952 Standards Staff: 2

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1956.  
78 members participate in standards activities.  
All OPEI sponsored standard are developed under ANSI's  
Canvass Procedures. All draft standards are available for review.

**Certification** Through the services of an independent testing  
laboratory, OPEI conducts a 3rd party voluntary certification  
program for each of the OPEI sponsored voluntary standards  
approved and published by ANSI.

**Secretariats** For each of the standards listed above and U.S.  
Technical Advisory Group to ISO/TC 23/SC 13, Powered Lawn and  
Garden Equipment.

**Scope** A national trade association representing manufacturers of power  
lawn mowers, snow throwers, roto tillers, commercial turf care  
equipment, garden tractors and related equipment and attachments.

**Standardization Activities** Developed ANSI B71.1 Power Lawn Mowers; B71.3, Snow  
Throwers; B71.4, Commercial Turf Care Equipment; B71.5, Sound Test  
Method; B71.6, Shredder/Grinders; B71.7, Logsplitters; and B71.8,  
Tillers.

**Availability** Published standards may be obtained through ANSI.  
Draft proposed standards may be obtained directly.

**Formerly** Lawn Mower Institute, Inc.

lawn equipment; lawn mowers; snow throwers; shredders;  
logsplitters; roto tillers; garden tractors; agriculture;  
acoustics; consumer products;

Charles D. Yuska, President

4350 North Fairfax Drive  
Suite 600  
Arlington, Virginia 22203  
(703) 243-8555 FAX: (703) 243-8556

Trade Association  
Works through other organizations to develop standards

A voluntary nonprofit association of United States companies manufacturing packaging machinery and packaging-related converting machinery. Seeks to solve problems of the packaging machinery industry and provides information and services to member companies, users of packaging and converting machinery, the Government, and the general public.

Maintains Product Safety and Technical Information Committees. A member of the American National Standards Institute and supports its work with the International Organization for Standardization. Works with the Occupational Safety and Health Administration to publish a safety standard for the Care, Use, and Construction of Packaging Machinery.

Cooperates with associations such as the Fibre Box Association and the Adhesives Manufacturers Association of America in promoting recommended practices on the storage, maintenance, and application of adhesives used in conjunction with automatic packaging machinery.

packaging; machinery;

Paula D. Clements, Executive Director

3913 Old Lee Highway, Suite 33B  
Fairfax, Virginia 22030  
(703) 359-0826 FAX: (703) 359-2576

Founded: 1884

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	Represents painting and decorating contractors throughout the United States. Endeavors to maintain high standards of workmanship and safety in the painting, decorating, drywall, wallcovering, and coating industries. Committee activities involve labor, public, and government relations.
Standardization Activities	Works with the National Safety Council, OSHA, ANSI, and other organizations such as Associate Specialty Contractors, American Subcontractors Association to develop standards for wall covering, scaffolding and ladders, and general safety in the industry.
Keywords	painting; wallcovering; safety;

#### PAPERBOARD PACKAGING COUNCIL

John A. McIntyre, President

888 17th Street, NW  
Suite 900  
Washington, DC 20006  
(202) 289-4100

FAX: (202) 289-4243

Founded: 1967

Standards Staff: 2

Type of Organization	Trade Association Develops recommended practices
Scope	A nonprofit national trade association representing companies in the production and conversion of paper-board into folding cartons and packages. Functions include marketing information and statistics, industrial relations, safety, technical and production, and government affairs.
Standardization Activities	Maintains a Technical and Production Committee, and special ad hoc groups established for the administration of standards activities.  Issues guidelines and standards for the paperboard packaging industry, as a set of voluntary industry standards and specifications recommended for users and suppliers of folding paper cartons. Cooperated with the federal government in the development of simplified practice recommendations for margarine cartons, rectangular ice cream cartons, and bacon carton. Involved in standards for printing nutritional labeling and Universal Product Code symbols on fluid milk cartons. Also cooperates with the Government in reviewing and commenting on federal specifications.

Availability	Distributed directly.
Formerly	Merger of several groups including the Folding Paper Box Association and The Institute for Better Packaging.
Keywords	packaging; containers; cardboard;

# **PERLITE INSTITUTE**

Paul J. Julius, Managing Director

88 New Dorp Plaza  
 Staten Island, New York 10306  
 (718) 351-5723 FAX: (718) 351-5725

Founded: 1949 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
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Standards Development	Standards developer since 1949. 65 members participating in standards activities. 20 active standards. None processed through ANSI. Draft standards not available for review.
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Standards Designation	PI prefix.
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Government Adoption	Various government agencies have adopted ASTM standards on perlite including GSA, FHA, and VA.
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Scope	A national and international nonprofit trade association which sponsors research leading to standardization of specifications and methods of testing perlite and perlite products. Collects data, initiates and correlates research, and develops specifications and test methods. Cooperation with technical and engineering societies, other trade associations, and government agencies interested in standards.
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Standardization Activities	Activities are directed toward fulfilling producer, and customer requirements. Works closely with Underwriters Laboratories (UL), International Conference of Building Officials (ICBO), Southern Building Code Conference International (SBCCI), National Institute of Standards and Technology (NIST), Building Officials and Code Administrators (BOCA), and other agencies and industry organizations.
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Publishes test methods and related standards containing test methods for evaluating quality of expanded perlite, and American Society for Testing and Materials specifications applicable to perlite. Publishes standards for perlite products used in building, industrial, and horticultural industries.

**Availability** Distributed directly.

**Keywords** perlite; insulation; aggregate; abrasives; materials;

#### PERSONAL COMPUTER MEMORY CARD INTERNATIONAL ASSOCIATION

Bill Lempesis, Executive Director and COO

2635 N. First Street

Suite 209

San Jose, California 95134

(408) 433-2273

FAX: (408) 433-9558

e-mail: [blempesis@pcmcia.org](mailto:blempesis@pcmcia.org)

WWW: <http://www.pc-card.com>

Founded: 1989

Standards Staff: 9

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Develop standards for PC cards.

**Scope** Association of over 500 companies representing computer manufacturers.

**Standardization Activities** Promote the worldwide adoption of PC Card technology by defining technical specifications and proactively marketing the technology.

**Availability** Distributed directly.

**Keywords** PC Card; PCMCIA; mobile computing; computers; computer peripherals; security cards;

#### PHARMACEUTICAL RESEARCH AND MANUFACTURERS OF AMERICA

Thomas X. White, Associate Vice President,

1100 15th Street, NW

Washington, DC 20005

(202) 835-3546

FAX: (202) 835-3797

Founded: 1958



<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Participates in standards developing activities of the Food and Drug Administration, the U.S. Pharmacopoeia, the National Formulary, AAMI, ANSI, ASTM, and other public and private standards setting organizations.
<b>Scope</b>	A nonprofit trade organization representing firms that discover, develop, and produce prescription drugs and biological products. The Association's members produce most of the prescription drugs marketed in the United States, and a large part of the world's supply. The Association's principal objectives are: (1) to encourage high standards in the research, development, production and marketing of drug products; (2) to develop and disseminate information about the pharmaceutical industry to the public, all levels of government, the media, international organizations, and other groups; (3) to help keep industry abreast of government actions and public concerns; and (4) to work with member companies, other health related organizations, government and consumer entities, and the public to advance medical science and improve health-care services.
<b>Standardization Activities</b>	Participates in developing methods of analysis and standards for drugs and biologicals. Participation is either by staff (approximately one to two person years per year) or representatives of member companies drawn from PhRMA's Science and Regulatory Sections.
<b>Formerly</b>	Pharmaceutical Manufacturers Association (name change May 1994)
<b>Keywords</b>	drugs; pharmaceuticals; biologicals; health care;

#### PHOTOGRAPHIC SOCIETY OF AMERICA

Terry S. Stull, Operations Manager

3000 United Founders Boulevard  
Suite 103  
Oklahoma City, Oklahoma 73112  
(405) 843-1437

Founded: 1933

Standards Staff: 10

<b>Type of Organization</b>	User Association Standards Developer
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<b>Standards Development</b>	3 active technical standards. 8 active uniform practices.
<b>Standards Designation</b>	PSA Technical Standards. PSA Uniform Practices.
<b>Scope</b>	A nonprofit organization, international in scope. Promotes the arts and sciences of photography and furthers public education in the field. Interests of members include the uses of all types of photographic materials, their applications, and characteristics of their manufacturer.
<b>Standardization Activities</b>	Through its Technical Standards Committee, formulates technical standards. Affiliated with ANSI and has representatives on PH sectional committees on photography, as well as membership on the Photographic Technical Advisory Board. Representatives selected to represent its interests are chosen on the basis of their competence as users and their technical knowledge in the field. Establishes practices and requirements for judging and exhibition, safe handling, and other rules which contribute to the success of international photographic and camera events on a worldwide basis.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Associated Camera Clubs of America
<b>Keywords</b>	photography; camera; film;

#### PIPE FABRICATION INSTITUTE

Lois A. Moore, Executive Director

Post Office Box 173  
612 Lenore Avenue  
Springdale, Pennsylvania 15144  
(412) 274-4722 FAX: (412) 274-4722

Founded: 1913 Standards Staff: 1

<b>Type of Organization</b>	Technical Society Standards Developer
<b>Scope</b>	Producers and designers of high pressure/high temperature piping systems for chemical plants, refineries, central power stations, and ships; concerned with technical and economic problems of the piping industry.

<b>Standardization Activities</b>	The standards and technical bulletins developed by the Engineering Committee cover the design, fabrication and erection of industrial and high pressure/high temperature piping to meet the requirements of power plants including nuclear, fossil, chemical, petroleum, and process piping. Through its members, the institute is officially represented on various code bodies and national engineering societies.
<b>Availability</b>	Distributed directly and through IHS.
<b>Keywords</b>	pipe; pipe fabrication; industrial equipment;

## PIPE LINE CONTRACTORS ASSOCIATION

<b>Type of Organization</b>	J. Patrick Tielborg, Managing Director and General Counsel  1700 Pacific Avenue, Suite 4100 Dallas, Texas 75201-4675 (214) 969-2700 FAX: (214) 969-2705  Founded: 1947
<b>Representatives</b>	Trade Association Works through other organizations to develop standards  Four contractor members serve on the API-AGA 1104 Joint Welding Committee composed of industry representatives and sponsored by the American Petroleum Institute and the American Gas Association.
<b>Scope</b>	Association of contractors, equipment manufacturers, suppliers, and dealers of main-line pipe line. Represents the industry in labor negotiations. Promotes cooperation, efficiency, and safety in the main-line pipe line construction industry.
<b>Standardization Activities</b>	Reviews and revises API Standard 1104, Standard for Welding Pipe Lines and Related Facilities.
<b>Keywords</b>	petroleum pipe lines; construction;

**PLASTICS PIPE INSTITUTE**

**A division of The Society of the Plastics Industry**

Thomas S. Walsh, PhD, Executive Director

1275 K Street, NW  
Suite 400  
Washington, DC 20005  
(202) 371-5306

FAX: (202) 371-1022

Founded: 1949

Standards Staff: 4

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

Dedicated to creating broader markets and market opportunities for plastics pipe and related products.

**Standardization  
Activities**

Maintains a Technical Committee which represents its members in Standards Writing and Code Writing organizations, including: ASTM F-17, Thermoplastic Piping Systems; ANSI B31.3, Chemical and Petroleum Piping Code; American Petroleum Institute, (oil and gas production piping); American Water Works Association, (water distribution piping); the National Sanitation Foundation (potable water quality); North American Society For Trenchless Technology; National Association of Sewer Service Co.

Maintains a Hydrostatic Stress Board which writes standard policies and procedures for the forecasting of the long-term strength of plastic piping products and plastics piping thermoplastic materials. The Board also issues listings of Hydrostatic Design Stress recommendations for thermoplastics materials. These recommendations are referenced by many ASTM and other standards.

The Fuel Gas Division develops educational material used by gas companies and federal and state agencies for the training of operators and inspectors in proper and safe use of plastics gas piping; maintains close liaison with Department of Transportation and other government agencies which regulate the use of plastics piping for fuel gas; maintains close liaison with user group technical committees such as those of the American Gas Association and the American Petroleum Institute.

The Municipal and Industrial Division develops technical information, guides and manuals related to the use of plastics piping for municipal and industrial applications; it represents members before appropriate associations and organizations.

The Municipal and Industrial Division assists AWWA in development of appropriate standards and maintains liaison with key government agencies including EPA, HUD, etc.

Availability	Distributed directly.
Keywords	plastic pipe; pipe; building; construction; gas distribution; water distribution; sewer and waste; industrial; trenchless technology;
<b>PLUMBING AND DRAINAGE INSTITUTE</b>	
	<p>Sol Baker, Executive Director</p> <p>1106 W 77th Street, South Drive  Indianapolis, Indiana 46260-3318  (317) 251-6970 FAX: (317) 253-8295</p> <p>Standards Staff: 1</p>
Type of Organization	Trade Association Standards Developer
Standards Development	9 active standards. 7 processed through ANSI.
Standards Designation	PDI-G, PDI-WH, and ANSI prefixes.
Government Adoption	Used extensively by General Services Administration, Department of the Army, Coast Guard, and Department of Veterans Affairs.
Certification	Provides certified testing, rating, and installation procedures for grease interceptors and water hammer arresters. Testing equipment is maintained by independent laboratories. Furnishes certification seals which provide evidence that a product has met PDI performance standards.
Scope	An association of manufacturers of plumbing and drainage products. Promotes the advancement of plumbing engineering and the plumbing industry through public relations, research, and product standardization.
Standardization Activities	Maintains an Engineering Committee which engages in product certification and standards development in the areas of backwater valves, hydrants, floor and roof drains, grease interceptors, water-hammer arrestors, plumbing fixture supports, and cleanouts. Cooperates with the American Society of Mechanical Engineers in the development of ANSI standards.



Availability	Distributed directly and through ASME.
Formerly	Plumbing and Drainage Manufacturers Association (1954) Plumbing Manufacturers Association (1949)
Keywords	plumbing; drainage products; building; sanitation;

#### POLYURETHANE MANUFACTURERS ASSOCIATION

Richard Church, Executive Director

800 Roosevelt Road, Building C  
Suite 20

Glen Ellyn, Illinois 60137

(708) 858-2670

FAX: (708) 790-3095

Founded: 1971

Type of Organization	Trade Association Standards Developer
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Scope	A private, nonprofit trade association of companies involved in the manufacture of solid polyurethane thermosetting elastomers and their related chemical and equipment suppliers. Promotes and maintains an organization for the mutual advancement and welfare of its members and the polyurethane industry.
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Standardization Activities	Maintains a Standards Committee whose purpose is to select and standardize physical test procedures suitable for use with solid polyurethane elastomers, and to promote and disseminate these recommended practices throughout the industry. The two phase program consists of evaluation and selection of existing specifications suitable for use with solid polyurethane; and modification of new test procedures suitable for use as an educational tool. Specifications booklet being revised to include new standards for cast urethanes and specifications for RIM processing of urethanes.
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Availability	Distributed directly.
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Keywords	polyurethane; materials;
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**PORCELAIN ENAMEL INSTITUTE**

Donald R. Sauder, Executive Vice President

102 Woodmont Boulevard  
Suite 360  
Nashville, Tennessee 37205  
(615) 298-1250                      FAX: (615) 298-9858

Founded: 1930                      Standards Staff: 2

Type of Organization              Trade Association  
Standards Developer

Standards Designation              PEI, ASTM, and ANSI prefixes.

Scope                      Manufacturers of major appliances and sanitaryware with porcelain enameling facilities contract porcelain enamel companies and suppliers to the industry. Conducts market development programs, develops test methods for evaluation of porcelain enamel properties.

Standardization Activities              Works primarily through the voluntary standards development system utilizing the committee system of ASTM and ANSI. Also develops and maintains standards and specifications for specialized sectors of the porcelain enameling industry. In addition, serves as conduit of industry input into government-initiated standards.

Availability                      Distributed directly.

Keywords                      porcelain enamel; appliances; plumbing fixtures; cookware; materials;

**PORTABLE POWER EQUIPMENT MANUFACTURERS ASSOCIATION**

Donald E. Purcell, President

4720 Montgomery Lane  
Suite 812  
Bethesda, Maryland 20814  
(301) 652-0774                      FAX: (301) 654-6138

Founded: 1977                      Standards Staff: 2

Type of Organization              Trade Association  
Works through other organizations to develop standards

Certification                      No certification, qualification, or accreditation programs.

Secretariats	ANSI B175 Committee. U.S. TAG for ISO/TC 23/SC 17.
Scope	A nonprofit industry organization representing manufacturers of gasoline and electrically powered chain saws and their component parts.
Standardization Activities	PPEMA standardization programs are confined to participation in the development of standards under the auspices of national and international voluntary standards setting organizations, and in cooperation with federal and state government agencies. These programs include not only those sponsored or initiated by PPEMA and its members but also those recommended by government agencies. Participated in the development of ANSI B175.1 Safety Requirements for Gasoline Powered Chain Saws, 1979; and B175.1a, Supplement to Safety Requirements for Gasoline Powered Chain Saws, 1983.
Formerly	Chain Saw Manufacturers Association
Keywords	chain saws; saws; industrial equipment;

#### PORTABLE SANITATION ASSOCIATION

	William F. Carroll, Executive Director
	7800 Metro Parkway, Suite 104 Bloomington, Minnesota 55425 (612) 854-8300 FAX: (612) 854-7560
	Founded: 1971 Standards Staff: 3
Type of Organization	Trade Association Standards Developer
Standards Developer	Standards developer since 1976 3 active standards 35 members participating in standards activities Processed through ANSI Draft standards available for review
Certification	Portable Sanitation Health and Safety Worker Certification.
Secretariats	ANSI Z4.1, Z4.3, Z4.4.
Scope	An international trade association that represents U.S. and foreign firms engaged in the leasing, renting, selling, and manufacturing of portable sanitation equipment, services and supplies for construction, recreation, emergency, and other uses. Devoted to the proper handling of human waste by the most modern,

sanitary means, giving the greatest concern to the preservation of an unspoiled environment.

**Standardization  
Activities**

Develops standards directed toward providing clean, sanitary restroom facilities for any gathering of people that do not have adequate permanent facilities close at hand. Assists manufacturers supplying the industry in market research and types and kinds of equipment which will fill these needs.

Recommends standards to BOCA, SBCCI, OSHA, Council of American Building Officials (CABO), IAPMO, and various other state, county, and local health departments.

Standards include minimum sanitation requirements for temporary labor camps to protect the health and safety of persons residing in the camps or in the vicinity of the camps. Also provides standards for adequate toilet facilities in places of employment.

**Availability**

Distributed through ANSI.

**Keywords**

sanitation; toilets; public health;

**PORTLAND CEMENT ASSOCIATION**

John P. Gleason, Jr., President

5420 Old Orchard Road  
Skokie, Illinois 60077  
(708) 966-6200

FAX: (708) 966-8389

Founded: 1916

Standards Staff: 11

**Type of  
Organization**

Trade Association

Works through other organizations to develop consensus standards

**Representation**

Staff members are active in three model codes organizations and eight standards organizations, serving on seventy committees of ASTM, ANSI, ACI, ASCE, AASHTO, AREA, NFPA, ASHRAE, and others.

**Certification**

Construction Technology Laboratories (CTL), a contract research facility wholly owned by PCA, provides compliance certifications to clients in the form of test and/or investigative reports on a project-by-project basis. CTL does not have a product labeling program, nor associated product qualification programs.

<b>Secretariats</b>	Secretary for the American Concrete Institute's (ACI) 318 Committee which writes the Building Code Requirements for Reinforced Concrete referenced in building codes throughout the nation and used by all structural design professional.
<b>Scope</b>	Represents the cement manufacturing industry. Serves the industry by extending and improving the uses of cement and concrete through research and development, market promotion, educational programs, and public affairs activities including representation with government. Cooperates with other concrete industry associations and national organizations representing business and industry. Provides a range of services to its members as well as to those private and public segments of the economy that serve the needs of the construction community in the United States and Canada.
<b>Standardization Activities</b>	<p>Develops new standards and updates existing standards to reflect the latest findings in scientific research and test programs in the fields of cement and concrete technology, advanced engineering developments in all areas of concrete design and construction, and results of structural investigations and field experiences in the uses of concrete.</p> <p>Does not write proprietary standards, but works with national standards writing organizations to develop building codes, design standards, and material and test standards. The Research and Technical Services group and the Market Development group of PCA participate in this activity. CTL staff also participate in such activities.</p>
<b>Keywords</b>	cement; concrete; test laboratories; fire protection; environment; energy;

#### POST-TENSIONING INSTITUTE

Gerard J. McGuire, Executive Director/RETD

1717 West Northern Avenue  
Suite 114  
Phoenix, Arizona 85021  
(602) 870-7540

FAX: (602) 870-7541

Founded: 1976

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards.
<b>Representation</b>	ACI, AASHTO, AWWA, ASCE



<b>Scope</b>	Membership consists of post-tensioning material fabricators, manufacturers of prestressed steel, concrete construction organizations, professional engineers, and architects. Promotes the use of post-tensioning materials through research; development of recommendations, specifications and publications.
<b>Standardization Activities</b>	Publishes "Guide Specifications for Post-Tensioning Materials" and "Recommendations for Grouping of Post-Tensioned Prestressed Concrete Members." Generally works through committees of the American Concrete Institute and American Association of State Highway Officials for standards development, American Water Works Association and American Society of Civil Engineers.
<b>Availability</b>	Through PTI.
<b>Formerly</b>	Post-Tensioning Division of the Prestressed Concrete Institute, 1975
<b>Keywords</b>	construction; concrete; post-tensioning; prestressed concrete; unbonded post-tensioning; certification and training cable stayed bridges;

#### **POWDER ACTUATED TOOL MANUFACTURERS' INSTITUTE**

	James A. Borchers, Executive Director
	1000 Fairgrounds Road, Suite 200 St. Charles, Missouri 63301 (314) 947-6610                      FAX: (314) 946-2157
	Founded: 1952                      Standards Staff: 1
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ANSI, ISO.
<b>Certification</b>	Certification is through each individual manufacturer on their particular tool.
<b>Scope</b>	Furthers the development of a powder actuated systems industry; encourages the safe use and effective application of powder actuated fastening systems; encourages research; cooperates with organizations engaged in similar work.
<b>Standardization Activities</b>	Participates on ANSI A10.3 Committee for Safety Requirements for Powder Actuated Fastening Systems. Serves on the ISO/TC 29 Subcommittee for standard power loads used in powder actuated fastening systems.

Keywords fastenings; tools; construction; safety;

**PRECAST/PRESTRESSED CONCRETE INSTITUTE**

Thomas B. Battles, President

175 West Jackson Boulevard  
Chicago, Illinois 60604  
(312) 786-0300

FAX: (312) 786-0353

Founded: 1954

Standards Staff: 4

Type of  
Organization

Trade Association  
Standards Developer

Certification

The Plant Certification Program certifies a plant's capability to produce architectural and structural precast and prestressed concrete of the highest quality. Recognized as a Quality Assurance Inspection Agency by the Council of American Building Officials (CABO).

Scope

A trade association representing the manufacturers of precast, prestressed concrete products used as structural and architectural elements in building, bridges, and other structures. The professional membership helps develop working documents, such as, handbooks, design guides and manuals, guide specifications, and state-of-the-art reports to assist other professionals to use the product in a correct and economical manner.

Standardization  
Activities

Develops guide specifications, design guides, and other documents in which standards of the ASTM, ACI, ANSI, AASHTO, AREA, etc., are cited to aid the engineer or architect in designing and specifying industry products.

Availability

Distributed directly.

Formerly

Prestressed Concrete Institute

Keywords

concrete; prestressed concrete; construction; architectural precast concrete; glass fiber reinforced concrete; erection; buildings; bridges;

## **PRESSURE SENSITIVE TAPE COUNCIL**

Glen R. Anderson, Executive Vice President

401 North Michigan Avenue

Suite 2200

Chicago, Illinois 60611

(312) 644-6610

FAX: (312) 527-6640

Founded: 1953

Standards Staff: 2

### **Type of Organization**

Trade Association  
Standards Developer

### **Scope**

An organization of North American manufacturers of pressure sensitive tape (excluding surgical tape and label stock). Works with code and specification writing agencies.

### **Standardization Activities**

Maintains research on test methods and standards of nomenclature, and on characteristics of products under all conditions of temperature and humidity. Publishes Test Methods booklet consisting of twenty-eight testing procedures for pressure sensitive tapes. Each test has been developed, revised, and edited by the Technical Committee of the Council in cooperation with interested government agencies over an extended period of time.

Also publishes an annual tape products directory designed to inform industrial, commercial and retail consumers of the variety of pressure sensitive tapes and the applications in which they have been successfully used. The tapes are listed by company, giving the tape identification number, description, principle uses, and manufacturer's values. The values given are in accordance with the PSTC Test Methods for tensile strength, adhesion, thickness and elongation.

### **Availability**

Distributed directly.

### **Keywords**

tape; packaging;

## **PREVENT BLINDNESS AMERICA**

Richard T. Hellner, President

500 E. Remington Road

Schaumburg, Illinois 60173

(708) 843-2020

FAX: (708) 843-8458

Founded: 1908

Standards Staff: 2

<b>Type of Organization</b>	Scientific Society Standards Developer
<b>Representation</b>	ANSI K61, Z80, Z87 ASTM F8.57
<b>Scope</b>	The oldest voluntary health agency nationally engaged in the prevention of blindness through a comprehensive program of community service, public and professional education, and research.
<b>Standardization Activities</b>	With advice and guidance of professional scientific advisory committees, develops standards for vision screening of preschool and school age children, for eye safety programs in schools and industry, for glaucoma screening, and for services providing low vision aids to the partially sighted.
<b>Availability</b>	Sold directly and through ANSI.
<b>Formerly</b>	Formed by Merger of New York State Committee for the Prevention of Blindness and the American Association for the Conservation of Vision (1918), National Committee for the Prevention of Blindness (1927), National Society to Prevent Blindness (1995)
<b>Keywords</b>	blindness prevention; eye protection; public health; social welfare; vision screening;

#### PRIMARY GLASS MANUFACTURERS COUNCIL

James C. Benney, Technical Director

3310 SW Harrison Drive  
Topeka, Kansas 66614-2279  
(913) 266-3666  
e-mail: jimpgmc@aol.com

FAX: (913) 266-0272

Founded: 1987

Standards Staff: 2

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards.
<b>Standards Development</b>	Participates in various standardization committees including ASTM E-6; ASTM C-14; ISO/TC 160; ASHRAE SSPS 90.1 and SSPC 90.2, and NFRC.
<b>Secretariat</b>	U.S. Technical Advisory Group to ISO/TC 160, Glass in Buildings.
<b>Scope</b>	PGMC is an association made up of five United States firms, AFG Industries, Inc., Ford Motor Co/Glass Division, Guardian Industries, Libbey-Owens-Ford Company, and PPG Industries, Inc., engaged in the manufacture and sale of primary flat glass

products. PHMC is active in its role as a technical information resource for the flat glass industry. In addition, PGMC plays an influential role in the development of glass-related specifications and performance standards and in advancing the appropriate use of glass and glass products in the construction industry.

**Keywords** glazing; fenestration;

## **PRINTING INDUSTRIES OF AMERICA**

Ray Roper, CAE; President and CEO

100 Daingerfield Road  
Alexandria, Virginia 22314  
(703) 519-8100

FAX: (703) 548-3227

Standards Staff: 3

**Type of Organization** Trade Association  
Standards Developer

**Scope** PIA is the umbrella organization of the graphic arts industry. It is a federation of national, regional, state, and city associations. Sections include Binding Industries of America, Graphic Arts Marketing Information Service, Graphic Communications Association, International Thermographers Association, Label Printing Industries of America, Magazine Printers Section, Non-Heatset Web Section, and Web Offset Association.

**Standardization Activities** Maintains a continuing interest in the development of standards for promoting technical progress and production efficiencies. Activities include: development of industry specifications for production and inventory control applications; computer specifications for inter-industry communication and electronic data interchange; publication of Virgin Vinyl and Related Standards for Loose Leaf Binders through its affiliate, Binding Industries of America; preparation of standards for printing plate sizes through its National Association of Lithographic Platemakers Section; participation with Magazine Publishers Association and others in the development of standard specifications for advertising reproduction material for magazine web offset printing through its Graphic Communications Association and International Business Forms Industries affiliates.

**Availability** Distributed directly.



Formerly United Typothetae of America (1945)  
Printing Industry of America, Inc. (1965)  
Absorbed: Lithographers and Printers National Association (1964)

Keywords printing; lithography; communications; paper; information;  
processing;

#### PROCESS INDUSTRY PRACTICES INITIATIVE

Construction Industry Institute  
John T. Lowe, Director

3208 Red River  
Suite 300  
Austin, Texas 78705-2650  
(512) 471-3437 FAX: (512) 473-2968  
e-mail: jtlowe@attmail.com

Founded: 1993 Standards Staff: 4

Type of Coalition of Process Industry owners and contractors  
Organization Developer of Recommended Practices

Standards More than 250 individuals from 27 member companies are  
Development participating in the development of recommended practices in the  
following areas:

Civil/Structural/Architectural, Electrical, Environmental,  
Insulation, Machinery, Process and Instrument Diagrams, Piping,  
Pressure Equipment, and Process Control. Specific practices  
include design, selection and specification, and installation.  
information.

Certification None.

Scope PIP is a member funded sub-unit of the Construction Industry  
Institute. Its mission is to increase the value of the  
engineering-procurement-construction process for the United States  
process industry in the global marketplace, and enhance  
Responsible Care® compliance and safety. This is done by  
developing recommended practices for the detailed design,  
procurement, and construction of process facilities, including  
their maintenance and operation. Participation is voluntary and  
open to all companies qualified for Chemical Manufacturers  
Association membership and the contractor companies serving them.

Standardization Develop voluntary "Recommended Practices" for the  
Activities detailed design, procurement, and construction of process  
manufacturing facilities, primarily through harmonization of  
internal member standards. These "Practices" are generally "how  
to's" and are not focused on product specifications. Versions of

the U.S. voluntary recommended practices can be used as the basis for meeting international requirements. Currently there are 50 practices issued and another 100 in various stages of development

**Availability**

Directly from Construction Industry Institute, 3208 Red River, Austin, Texas 78705-2650, (512) 471-8155.

**Keywords**

process industry; construction industry; environment; machinery; piping; pressure equipment; process control;

**PROJECT MANAGEMENT INSTITUTE**

Deborah Bigelow, Executive Director

130 South State Road  
Upper Darby, Pennsylvania 19082  
(610) 734-3330 FAX: (610) 734-3266  
WWW: <http://www.pmi.org>

Founded: 1969

**Type of  
Organization**

Professional Society  
Works through other organizations to develop standards

**Representation**

ANSI

**Scope**

A nonprofit organization devoted exclusively to the field of project management. Foster recognition of the need for professionalism in project management; provides a forum for free exchange for project management problems, solutions, and applications; coordinates industrial and academic research efforts; develops common terminology and techniques to improve communications; provides interface between users and suppliers of hardware and software systems; and provides guidelines for instruction and career development in the field of project management.

**Standardization  
Activities**

Functions are performed through the Professional Liaison Committee which coordinates with the Technology, Research Policy and Education Committees. Participates in national activities through the American National Standards Committee XK36.3 and internationally, through liaison with an appointed observer to Internet. Does not deal with the federal government directly. Several members are federal employees in agencies involved with project management.

Keywords management; business; information processing;

#### RACK MANUFACTURERS INSTITUTE

John B. Nofsinger, Managing Director

The Material Handling Institute  
8720 Red Oak Boulevard, Suite 201  
Charlotte, NC 28217  
(704) 522-8644 FAX: (704) 522-7826

Founded: 1958 Standards Staff: 1

Type of Trade Association  
Organization Standards Developer

Standards Standards developer since 1958.  
Development 33 member companies participating in standards  
activities.  
4 active standards.  
One being processed through ANSI.

Scope Consists of firms engaged in the design and manufacture for sale  
of industrial steel storage racks. Active in standardization and  
fire protection of high rack storage areas.

Standardization Develops and publishes standards and nomenclature  
Activities including Specification for the Design, Testing and  
Utilization of Industrial Steel Storage Racks; Minimum  
Design Standards for Pallet Stacking Framer; Manual of  
Safety Practices; and Stacker Rack Nomenclature.

Availability Distributed directly and through the Material Handling Institute,  
Inc.

Keywords storage racks; material handling; stacker racks; industrial  
equipment;

#### RADIO TECHNICAL COMMISSION FOR AERONAUTICS

David S. Watrous, President

1140 Connecticut Avenue, NW  
Suite 1020  
Washington, DC 20036  
(202) 833-3993 FAX: (202) 833-9434

**Type of  
Organization**

Standards Developer

**Standards  
Development**

Over 185 member organizations; simultaneously operate 15-20 separate committees each working on one or more standards; a committee includes 20 to 250 volunteers.

83 active standards, three special Task Force Reports, two documents accepted as international standards (ISO/XXXX); airborne equipment environmental testing and aviation software certification.

**Standards  
Designation**

Minimum Aviation System Performance Standards, Minimum Operational Performance Standards, and Guidance Documents (RTCA/DO-XXX).

**Government  
Adoption**

RTCA is utilized as a Federal Advisory Committee. Recommendations provide the foundation for decisions regarding aviation policy, procedures and equipment. The Federal Aviation Administration uses RTCA recommended standards as the basis for Technical Standard Orders. RTCA products are also used by ICAO panels and industry.

**Certification**

None.

**Scope**

RTCA takes a "systems" approach in addressing air transportation issues. Focus is on Communications, Navigation, Surveillance/Air Traffic Management concepts, requirements, procedures and equipment (hardware and software). RTCA deliberations are open to anyone with an interest/input regarding the subject under discussion. These deliberations typically result in consensus-based, performance standards. RTCA members include both domestic and international government and private sector organizations, e.g., users (airlines, general aviation, Department of Defense), aviation associations, air traffic entities, airports, equipment suppliers and service suppliers.

**Standardization  
Activities**

Seeks solutions to problems involving the application of electronics and telecommunications to aeronautical operations. These solutions are frequently in the nature of recommended technical standards and common operational requirements which are acceptable to government, industry, and users. Cooperates with European Organizations for Civil Aviation Equipment (EUROCAE).

**Availability**

Sold directly, and distributed through document marketing organizations.

**Keywords**

aeronautical; avionics; communications; electronics; navigation; surveillance; MASPS, MOPS; CNS/ATM; GNSS; data link; ADS-B;

# RADIO TECHNICAL COMMISSION FOR MARITIME SERVICES

W.T. Adams, President

Post Office Box 19087  
Washington, DC 20036  
(202) 639-4006

Founded: 1947

Standards Staff: 6

## Type of Organization

Technical Society  
Standards Developer

## Standards Development

Standards cover all aspects of maritime telecommunications.  
None processed through ANSI. Draft standards not available for  
review by non-RCTM members.

## Standards Designation

RTCM Recommendations, usually with designator Special  
Committee (SC) Report Number.

## Government Adoption

RTCM Recommendations, where appropriate, are adopted by  
cognizant government agencies such as FCC and U.S. Coast Guard.

## Certification

No certification, qualification, or accreditation programs

## Scope

180 member organizations active in all aspects of maritime  
telecommunications including any transmission, emission, or  
reception of signs, signals, writing, images, and sounds; or  
intelligence of any nature by wire, radio, optical, and other  
electromagnetic and visual systems.

## Standardization Activities

Standardization activities are primarily focused on  
user-defined requirements for maritime telecommunications.  
Special Committees formed to address standards areas are open to  
participation by all RTCM member organizations. Liaison is  
maintained with appropriate national and international  
organizations working in similar areas.

## Availability

Distributed directly.

## Formerly

Radio Technical Commission for Marine Services

## Keywords

maritime; shipping; boating; radio; electronics;  
telecommunications; radiodetermination; radionavigation;  
radiolocation; radar; transportation; communications; electronics;



**RADIOLOGICAL SOCIETY OF NORTH AMERICA**

Delmar J. Stauffer, Executive Director

2021 Spring Road  
Suite 600  
Oak Brook, Illinois 60521  
(708) 571-2670 FAX: (708) 571-7837

Founded: 1915

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Representation** A member of the Medical Devices Standards Board, ANSI, and the National Council of Radiation Protection and Measurements.

**Scope** A professional society which promotes the study and practical application of radiology, radium, electricity, and other branches of physics related to medical science.

**Standardization Activities** Supports activities of the organizations listed above and reports to its members annually on standards activities.

**Keywords** radiology; radiation; medical devices;

**RAILWAY TIE ASSOCIATION**

Raymond R. Wingard, Executive Director

Post Office Box Drawer 1039  
Gulf Shores, Alabama 36547  
(334) 968-5928 FAX: (334) 968-5929

Founded: 1919 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 3 standards.

**Standards Designation** Specifications for Cross Ties and Switch Ties.  
Wood Tie Fastener Performance Specification.  
Selectie economic analysis model for alternative ties in track.

**Scope** Membership consists of those interested in the manufacture, procurement and chemical preservation of wood railroad cross ties. Cooperates with government agencies in conservation of forest products. Collects statistics, promotes standardization of cross ties, and provides models for economic analysis.

<b>Standardization Activities</b>	Administered by an Executive Committee, a Committee on Research and Development, and other active committees. Active in international activities through its Canadian membership. Cooperates with Government agencies on cross tie specifications. Works with the Association of American Railroads Research Center and several railroads in Research and Development and in-track testing of ties, including tests at Pueblo, Colorado Test Track Center.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	National Association of Railroad Tie Producers
<b>Keywords</b>	railway ties; cross ties; transportation;

#### RECORDING INDUSTRY ASSOCIATION OF AMERICA

	Hilary B. Rogen, President
	1020 19th Street, NW, Suite 200 Washington, DC 20036 (202) 775-0101                      FAX: (202) 775-7253
	Founded: 1952                      Standards Staff: 2
<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	4 active standards.
<b>Certification</b>	No certification, qualification, or accreditation programs
<b>Scope</b>	A nonprofit trade association for the United States sound recording industry. Promotes mutual interests of recording companies and the betterment of the industry. Initiates and sponsors programs and activities geared to the needs and problems of the recording industry.
<b>Standardization Activities</b>	The Engineering Committee provides an ongoing review to maintain high technical standards for phonograph records, prerecorded sound recording media to insure uniformity and compatibility. Cooperates with ANSI, IEC, and EIA, and has drafted its own dimensional standards to facilitate equipment design and assure interchangeability.

**Availability** Distributed directly.

**Formerly** Record Industry Association of America (1952)

**Keywords** phonograph records; cassettes; videodiscs; videocassettes; recording; communications;

#### RECREATION VEHICLE INDUSTRY ASSOCIATION

Bruce A. Hopkins, Vice President, Standards

1896 Preston White Drive  
Reston, Virginia 22090  
(703) 620-6003

FAX: (703) 620-5071

Founded: 1963

Standards Staff: 13

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 4 active standards.

**Secretariats** ANSI Committee A119, Recreation Vehicles and Recreation Vehicle Parks; ANSI EGS-1, Standard for Engine Generator Sets for Recreation Vehicles; Standard for Park Trailers; ANSI 12V Low Voltage Systems in Conversion Vehicles.

**Scope** Manufacturers and suppliers of recreational vehicles. Provides the industry a base from which to communicate with legislators, government agencies, automotive manufacturers, the media, and the general public.

**Standardization Activities** Coordinates the activities of committees that establish minimum requirements for installation of plumbing, electrical, heating, and other safety related systems in recreation vehicles, park trailers, and for design and construction features for recreation vehicle parks and campgrounds. Monitors state RV agencies; does compliance inspections on member manufacturers; provides educational programs on compliance standards. Monitors proposed standards and keeps industry informed of changes. Requires that manufacturers comply with existing standards as a condition for membership. Representation on standards committees of ANSI and NFPA.

**Availability** Distributed directly.

**Formerly** American Institute of Travel Trailer and Camper Manufacturers  
(1968)  
Recreation Vehicle Institute (1974)

**Keywords** recreation; transportation; recreational vehicles; conversion  
vehicles; RV parks;

**REDWOOD INSPECTION SERVICE**  
**A division of California Redwood Association**

Christopher Grover, General Manager

405 Enfrente Drive  
Suite 200  
Novato, California 94949  
(415) 382-0662 FAX: (415) 382-8531

Founded: 1961 Standards Staff: 4

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Developed standard for California Redwood Lumber  
through authorization of the American Lumber Standard  
Committee and PS-20.

**Standards Designation** Standard Specifications for Grades of California  
Redwood Lumber.

**Certification** Adopts official grademarks signifying that products so  
marked have been graded in accordance with standard specifications  
of the Redwood Inspection Service. Grademarks are applied by  
qualified graders of member companies or by cooperating grading  
agencies operating within requirements established by the American  
Lumber Standards Committee.

**Scope** A nonprofit organization for the primary purpose of establishing  
uniform grades of redwood lumber, consultation with government  
agencies concerning grades and grading of redwood and other  
species of lumber. Promulgates rules for the redwood lumber  
industry. Membership includes 85 percent of the redwood  
producers. Rules are developed by a Quality Standards Committee  
and approved by Board of Directors.

**Standardization Activities** Adopts standard specifications for grades, sizes,  
patterns, and grademarks for redwood lumber; planning mill  
products; special purpose uses for redwood lumber including tank  
stock, stadium seat stock, foundation sills, structural grades,  
structural glue laminating grades, and miscellaneous products  
including railroad ties and cooling tower material. Cooperates  
with other lumber organizations and with the American Lumber

Standard Committee in keeping current the American Lumber Standard set forth in the U.S. Department of Commerce Product Standard 20. Grading rules for redwood lumber are in accordance with these standards and approved by ALSC.

**Availability** Sold directly.

**Keywords** wood products; grading rules; inspection; lumber; building;

#### REFRACTORIES INSTITUTE

Robert W. Crolius, President

500 Wood Street, Suite 326  
Pittsburgh, Pennsylvania 15222  
(412) 281-6787 FAX: (412) 281-6881

Founded: 1951 Standards Staff: 2

**Type of Organization** Trade Association  
Works through other organizations to develop standards.

**Representation** Active in ASTM Committee C-8 on Refractories and ISO Committee TC-33 on Refractories.

**Scope** A national trade association representing a large segment of the refractories industry which is comprised of over 130 companies, operating more than 250 establishments and employing more than 15 000 hourly workers throughout 37 states. Primary purposes are to promote demand for the industry's products, to conduct and stimulate research aimed at improving products and processes, to aid in the development of new product applications, to keep its members abreast of new developments and to work cooperatively with government agencies involved with the industry.

**Standardization Activities** Cooperates with national technical associations test methods for refractories. Informs member companies of United States and international standardization activities regarding refractories.

**Keywords** refractories; fireclay; firebrick; insulating refractories; dolomite; materials;



## RESILIENT FLOOR COVERING INSTITUTE

Walter D. Anderson, Managing Director

966 Hungerford Drive, Suite 128

Rockville, Maryland 20850

(301) 340-8580

FAX: (301) 340-7283

Founded: 1929

Standards Staff: 2

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Standards developer since 1929.

Standards  
Designation

RFCI prefix.

Scope

Represents resilient floor covering producers of tile and sheet vinyl flooring products in the United States.

Standardization  
Activities

Developed standards for tile and sheet vinyl products, including adhesives and installation and maintenance instructions. Works with the federal government in developing standards for resilient tile and sheet vinyl for use by the government.

Availability

Distributed directly.

Keywords

floor covering; vinyl tile; sheet vinyl; building;

## RESISTANCE WELDER MANUFACTURERS ASSOCIATION

Shannon K. Coghlan, Executive Director

1900 Arch Street

Philadelphia, Pennsylvania 19103

(215) 564-3484

FAX: (215) 564-2175

Founded: 1931

Type of  
Organization

Trade Association  
Standards Developer

Scope

A trade association representing North American companies engaged in manufacturing resistance welding machines, electrodes and components (controls, transformers, etc.) Engages in a varied program of activities embracing the development of standard specifications for numerous types of resistance welding equipment, research and development work and cooperation with other

associations and industries with mutual or parallel interests and problems.

**Standardization  
Activities**

Developed specifications for resistance welding machines: spot, press, portable, seam, upset butt, flashbutt, etc.; electrode alloy materials; nomenclature, definitions, etc. Developed standard classification for resistance welding electrode alloys, stating minimum permissible physical and electrical qualities. Identified and classified trade names and numbers. Also developed standards for spot welding electrode holders welding electrodes (spot and seam), together with recommended electrode alloys for spot welding of similar and dissimilar metal combinations. Developed standard nomenclature and definitions on resistance welding equipment and techniques. Cooperates with the National Electric Manufacturers' Association and the American Welding Society to develop standards.

**Availability**

Distributed directly.

**Keywords**

resistance welding; manufacturing; spot welding; welding electrodes;

**ROBOTIC INDUSTRIES ASSOCIATION**

James A. Peyton, Manager of Standards Development

900 Victors Way  
Post Office Box 3724  
Ann Arbor, Michigan 48106  
(313) 994-6088 FAX: (313) 994-3338

Founded: 1974

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1982.  
Over 250 representatives participate in the seven R15 Standards Subcommittees. Most of RIA standards are processed through ANSI Subcommittees. Draft standards available for review.

**Standards  
Designation**

RIA/R15.x.

**Government  
Adoption**

The Occupational Safety and Health Administration references ANSI/RIA R15.06-1986 in its Guidelines for Robotic Safety.  
OSHA Training Manual, Chapter 18 - Robotic Safety, 1994.

**Secretariats**

Domestic: R15.01, R15.02, R15.03, R15.04, R15.05, R15.05WG1, R15.06, and R15.07.  
International: U.S. TAG/ISO/TC 184/SC 2.

Scope	The Robotic Industries Association provides leadership for the responsible advancement of the entire robotics industry in North America. Some of the Association's objectives include providing mutual communications and organization of groups within the robotic industry to initiate and pursue programs of common technical, marketing, or management interest; and developing robotic industry and robotic system standards which will enhance the use and application of automation equipment.
Standardization Activities	Standardization in the field of robotics, including activities within the following technical committees: Electrical Interface (R15.01), Human Interface (R15.02), Mechanical Interface (R15.03), Communication/Information (R15.04), Performance (R15.05), Reliability (R15.05-WG1), Safety (R15.06), and Simulation/Offline Programming (R15.07).
Availability	Draft standards available from RIA. ANSI-approved standards available from RIA and ANSI.
Keywords	robotics; robot systems; flexible manufacturing system; automation;

#### RUBBER MANUFACTURERS ASSOCIATION

	Kevin Ott, Vice President, General Products Group
	1400 K Street, NW Washington, DC 20005 (202) 682-4800
	FAX: (202) 682-4854
	Founded: 1915
	Standards Staff: 1
Type of Organization	Trade Association Standards Developer
Standards Development	100 member companies participate in standards development. Some standards are submitted to ANSI canvassing procedures. Draft standards are available for review by interested organizations.
Standards Designation	RMA; Joint RMA/MPTA/RAC (Mechanical Power Transmission Association/Rubber Association of Canada); Joint RMA/TFI (The Fertilizer Institute); Joint RMA/CGA (Compressed Gas Association).
Government Adoption	Some RMA documents are cited by some federal regulatory agencies, e.g., OSHA.
Certification	No certification, qualification or accreditation programs.

<b>Secretariats</b>	ISO/TC 41/SC 4 - Synchronous Belt Drives.
<b>Scope</b>	A national trade association of the rubber industry, representing over 100 member companies which manufacture finished rubber products. Operates on state, national and international levels and represents its members before legislative and regulatory bodies, as well as in other standards writing forums.
<b>Standardization Activities</b>	Committees review and make recommendations on governmental standardization proposals and participate in the standards programs of ANSI, SAE, ASTM, DOT, OSHA, DOD, DOC and others. Develops standards and specifications for hose, conveyor belting, power transmission belting, sealing products, molded and extruded products, protective linings, roll coverings, and coated materials.
<b>Availability</b>	Distributed directly, through member companies, and through ANSI.
<b>Formerly</b>	New England Rubber Club (1909) Rubber Club of America (1917) Rubber Association of America (1929)
<b>Keywords</b>	rubber; elastomeric; hose; conveyors; transmission belts; industrial equipment; seals; coated materials; materials;

#### **SALT INSTITUTE**

Bruce M. Bertram, Technical Director

700 North Fairfax Street, Suite 600

Alexandria, Virginia 22314

(703) 549-4648

FAX: (703) 548-2194

Founded: 1914

Standards Staff: 1

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
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<b>Scope</b>	A nonprofit association supported by the world's major salt producers. Its 8 U.S. members produce 95 percent of the dry salt produced in the United States. Activities include information services, government relations, member services, and field services.
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<b>Standardization Activities</b>	Serves as the national and the international standards representative for the salt industry. Cooperates with the National Academy of Sciences and the Department of Labor, General Services Administration, and the U.S. Army Natick Laboratories. Also works with the American National Standards Institute, the American Society for Testing and Materials, the American Water Works Association, the U.S. Pharmacopeia, the American Association
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of State Highway and Transportation Officials, and the American Feed Manufacturers Association.

Formerly The Salt Producers Association (1963)

Keywords salt; sodium chloride; materials;

#### SCAFFOLDING, SHORING AND FORMING INSTITUTE

John H. Addington, Managing Director

1300 Sumner

Cleveland, Ohio 44115

(216) 241-7333

FAX: (216) 241-0105

Founded: 1960

Standards Staff: 1

Type of Organization Manufacturing Trade Association  
Professional Society Standards Developer

Standards Development 13 standards prepared.  
None processed through ANSI.

Scope 14 manufacturers of scaffolding, suspended powered scaffolding, shoring and forming. Establishes recommended criteria and inspection procedures for the proper and safe use of scaffolding to support formwork in concrete construction.

Standardization Activities Provides recommended safety requirements for shoring concrete formwork and scaffolding including flying deck forms, rolling shore brackets, horizontal shoring beams, single post shores, steel frame shoring. Also provides recommended scaffolding erection procedure.

Availability Sold directly.

Formerly Steel Scaffolding and Shoring Institute

Keywords scaffolding; shoring; suspended powered scaffolding; forming; construction; safety;

#### SCALE MANUFACTURERS ASSOCIATION

Robert A. Renfried, Executive Director

9384-D Forestwood Lane

Manassas, Virginia 22110

(703) 330-7079

FAX: (703) 330-7984

Founded: 1945

Standards Staff: 2



Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1945. 34 members in association. 3 active standards.
Standards Designation	SM prefix.
Certification	No certification, qualification or accreditation programs.
Scope	A national trade association that represents United States manufacturers of scales, balances and major weighing elements.
Standardization Activities	Directed toward fulfilling user-defined requirements of the industry and its customers through participation in both national and international standardization efforts.
Availability	Distributed directly.
Keywords	scale; weighing machines; instruments;

#### SCREEN MANUFACTURERS ASSOCIATION

Frank S. Fitzgerald, CAE, Executive Vice President

2545 South Ocean Boulevard  
Suite 410

Palm Beach, Florida 33480-5453

(407) 533-0991

FAX: (407) 533-7466

Founded: 1955

Standards Staff: 1

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Nine active standards.

Standards  
Designation

SMT, SMA, and ANSI prefixes.

Scope

Manufacturers of metal window, patio, door, and porch insect screens; sponsors research programs; compiles statistics. Sponsors certification programs.

Standardization  
Activities

Develops and maintains testing procedures and specifications for metal and solar screens.

Availability

Sold directly.

Keywords

screens; building; insect; solar;

SEALED INSULATING GLASS MANUFACTURERS ASSOCIATION

J. Dollard Carey, Executive Vice President

401 N. Michigan Avenue  
Suite 2400  
Chicago, Illinois 60611  
(312) 644-6610

FAX: (312) 321-6869

Founded: 1963

Type of  
Organization

Trade Association  
Works through other organizations to develop standards

Representation

Works with ASTM

Scope

Manufacturers of insulating glass and suppliers to the industry. Provides government liaison, publishes information on test methods.

Keywords

insulating; glass; building;

## SECONDARY MATERIALS AND RECYCLED TEXTILES

Bernard Brill, Executive Vice President

7910 Woodmont Avenue  
Suite 1212  
Bethesda, Maryland 20814  
(301) 656-1077

FAX: (301) 656-1079

Founded: 1932

Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Two active standards.

### Government Adoption

General Services Administration has adopted Wiping,  
Cotton, and Cotton-Synthetic dated October, 1981.

### Scope

Smart (Secondary Materials and Recycled Textiles) is an international association which seeks to strengthen the economic opportunities of its members. It promotes the interdependence of all its industry segments by providing a common forum for networking, education, and trade. Smart focuses on common problems and opportunities in the management, promotion, research and development of the wiping materials, used clothing, and textile recycle industry.

### Standardization Activities

Publishes descriptions of wiping cloths for use by all phases of industry. Descriptions cover material, content, and grade of wiping cloths.

### Availability

Distributed directly.

### Formerly

International Association of Wiping Cloth Manufacturers  
Sanitary Institute of America

### Keywords

rags; textiles; used clothing; wipes;

## SECURITY INDUSTRY ASSOCIATION

Virginia Williams, Director of Technical and Education Services

635 Slaters Lane  
Suite 110  
Alexandria, Virginia 22314  
(703) 683-2075

FAX: (703) 683-2469

Founded: 1969

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	<p>Develop Standards and Technical Reports, host standards development activities for other related organizations, provide technical input to other standards writing bodies as required.</p> <p>Standards development began approximately 1987; ANSI accreditation under the Canvass method obtained in 1991.</p> <p>Approximately 1000 participants or interested parties 10 active standards 13 standards subcommittees</p> <p>All subcommittee activities, information distribution, and draft standards for review are open to all interested parties on request and at no charge.</p> <p>Equivalent metric units are included in all standards where applicable.</p>
Standards Designation	<p>SIA xx-xxx-YR or ANSI/SIA xx-xxx-YR released as an SIA document: SIA ss-##x-yy where: ss is the subcommittee. ## is the sequential number of standards from that subcommittee. X is the type of standard (design, application, vocabulary, etc.). yy is the year the standard was last updated.</p>
Certification	<p>No certification, qualification, or accreditation programs. Validation checklists are provided to assist implementors in self-certification.</p>
Scope	<p>SIA works to increase the growth and professionalism of the security industry. Membership is of suppliers of security products and services; currently 60 percent manufacturers, 35 percent service providers, and 5 percent distributors. Activities include standards, education, government affairs, public relations, commissioned research, trade shows, and information recourses.</p>
Standardization Activities	<p>SIA standards and technical reports apply to products and systems in the electronic security industry, i.e., where the purpose is to prevent or deter loss of property or life through electronic means. Standards are primarily for product design and performance, through some cover application of products. Technical Reports are advisory documents regarding technical limitations, common practices, or overviews of security technology.</p>

Subcommittees are formed around product types. Draft standards are circulated for comment and revised through group discussion of the comments received. Final document approval is obtained by subcommittee vote, then ratification by the SIA Standards Committee (review of due process). SIA standards are then canvassed in accordance with procedures registered with ANSI. Eligibility to vote on a subcommittee is based on active participation. Participation in subcommittee activity is open to the public at no charge and without restriction.

**Availability**

Distributed directly.

**Formerly**

Security Equipment Industry Association (SEIA)

**Keywords**

security; safety; protection; alarms; communicators; detectors; monitoring; false alarms; low voltage;

**SEMICONDUCTOR EQUIPMENT AND MATERIALS INTERNATIONAL**

William A. Brown, Manager, International Standards

805 East Middlefield Road  
Mountain View, California 94043-2295  
(415) 964-5111 FAX: (415) 967-5375  
e-mail: semihg@semi.org

Founded: 1970

Standards Staff: 13

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1974.  
450 active standards.  
Draft Standards available for review.  
None processed through ANSI.  
Programs supported in North America, Europe and Japan;  
under development in P.R. China, Korea and Russia.

**Standards  
Designation**

C Chemicals and Gases.  
E Equipment Automation/Hardware,  
Equipment Automation/Software.  
G Packaging.  
M Materials.  
P Micropatterning.  
S Safety Guidelines.  
T Traceability.  
D Flat Panel Display.



Scope	With 1450 corporate members, SEMI serves the international semiconductor community by fostering the advancement of knowledge about equipment, materials, and services distinct to the production and use of semiconductor devices. Founded in 1970 to develop the SEMICON trade shows, SEMI activities have expanded to include technical symposiums, market research seminars, trade issues, and standards development.
Standardization Activities	<p>The SEMI Standards Program encompasses virtually every facet of semiconductor manufacturing and has established specifications and test methods in ten critical areas: chemicals, equipment (including automation and communications), materials, packaging, micropatterning facilities, safety, traceability and flat panel displays. Emphasis in standards development is placed upon: communication between suppliers and customers; interchangeability of products and components; technology transfer; safety; and efficiencies in design, production, and inventory.</p> <p>Nearly 3000 engineers, scientists, and technicians volunteer to serve on standards setting technical committees in Japan, Europe, and the United States. Many committees have established a liaison with one or more of the following standards organizations: ASTM, ANSI, CGA, JEIDA, SEAJ, DIN, JEDEC, IEEE, and NIST. Membership in the SEMI international standards programs is open to all interested individuals.</p> <p>A balloting procedure designed to allow maximum fair participation precedes the approval of any specification. Procedural reviews of all standards ensure that the formal balloting process has been properly performed.</p> <p>The SEMI Standards, an 11-volume publication, is revised annually for publication in April.</p>
Availability	Distributed directly and through IHS and on the WWW at <a href="http://www.semi.org">http://www.semi.org</a> .
Keywords	semiconductors; high technology; manufacturing; chemicals; equipment; materials; packages; photomasks; automation; communications; integrated circuits; gases; micropatterning; flat panel displays; safety;

## SFI FOUNDATION

Arnold S. Kuhns, President

15708 Pomerado Road  
Suite N208  
Poway, California 92064  
(619) 451-8868

FAX: (619) 451-9268

Founded: 1978

Standards Staff: 7

### Type of Organization

Standards Developer

### Certification

Manufacturer self-certification program for various products used in automotive aftermarket.

### Scope

An international standards setting organization involved with companies worldwide in the areas of motorsports, road wheels and consumer products.

### Standardization Activities

Activities are directed towards fulfilling user defined requirements of the motorsports, road wheels and consumer products industries. Standards are minimum performance in nature and compliance with the specifications enables the user to self-certify product.

### Formerly

SEMA Foundation, Inc.

### Keywords

motorsports; road wheels; consumer products;

## SGS UNITED STATES TESTING COMPANY

Richard Franconeri, Quality Assurance Director

291 Fairfield Avenue  
Fairfield, New Jersey 07004  
(201) 575-5252

FAX: (201) 575-8271

Founded: 1880

### Type of Organization

Independent Test Laboratory  
Standards Developer

### Certification

Conducts testing for certification and labeling to assure products meet specified standards.

### Scope

An independent commercial laboratory engaged in product testing for quality assurance.

<b>Standardization Activities</b>	Develops standard test procedures including: instrumentation for consumer appliances, toys, home entertainment equipment, garden and lawn equipment, recreational goods, textiles, chemicals, cosmetics, drugs, paint, construction materials, plastics, paper, metals, and foods. Cooperates with ASTM and ANSI. Assists government agencies, manufacturers, and trade associations by product testing to ascertain whether specifications and standards are met and to establish national standards.
<b>Formerly</b>	Also known as Nationwide Consumer Testing Institute, Inc.
<b>Keywords</b>	quality assurance; testing; consumer products; materials; food; textiles;

#### **SHEET METAL, AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION**

<b>Type of Organization</b>	John H. Stratton, Director of Technical Services  4201 Lafayette Center Drive Chantilly, Virginia 22021-1209 (703) 803-2980 FAX: (703) 803-3732  Founded: 1944 Standards Staff: 3
<b>Standards Development</b>	Trade Association Standards Developer  16 active standards. None processed through ANSI.
<b>Standards Designation</b>	NFPA standard xx.
<b>Government Adoption</b>	Eight standards are referenced by federal agencies: DOD; GSA; NAVFAC; Army Corps of Engineers; State Department; U.S. Air Force. State and local government use is indirect through adoption of ICBO, BOCA and SBCCI Model Codes which predominantly adopt and use the HVAC Duct Construction Standards and Fibrous Glass Duct Construction Standards. Any authority adopting NFPA Standard 90A will incorporate these two standards. Any authority adopting NFPA Standard 91, the ACGIH Industrial Ventilation Manual (OSHA invokes the Industrial Ventilation Manual) picks up the Round and Rectangular Industrial DCS of SMACNA.
<b>Scope</b>	A nonprofit trade association dedicated to the advancement of the sheet metal, heating, ventilating, air-conditioning, industrial sheet metal, and roofing industries. Activities and services are carried out in four departments: technical, labor relation, legislative affairs, and business management.

**Standardization  
Activities**

The Technical Services Department administers standards activities. Although some standards are developed for labor relations and safety practices, the majority fall into two categories: duct construction and architectural sheet metal.

Publishes Accepted Industry Practice for Industrial Duct Construction, Architectural Sheet Metal Manual, Building Systems Analysis and Retrofit Manual, Ducted Electric Heat Guide for Air Handling Systems, Energy Conservation Guidelines, Energy Recovery Equipment and Systems Air-to-Air, Fibrous Glass Duct Construction Standards, Fire, Smoke and Radiation Damper Guide for HVAC Systems, Guide for Steel Stack Design and Construction, HVAC Air Duct Leakage Test Manual, HVAC Duct Construction Standards-Metal and Flexible, HVAC Systems-Duct Design, HVAC Systems-Applications, HVAC Systems Commissioning Manual, HVAC Systems-Testing, Adjusting and Balancing, Indoor Air Quality Manual, IAQ Guidelines for Occupied Buildings under construction. Installation Standards for Residential Heating and Air Conditioning Systems, Labor Units Manual, Management Change Order Manual, Managers Guide for Welding, Rectangular Industrial Duct Construction Standards, Retrofit of Building Energy Systems and Processes, Round Industrial Duct Construction Standards, Seismic Restraint Guidelines for Mechanical Systems Manual, Thermoplastic Duct (PVC) Construction Manual, Welding Guidelines/Troubleshooting Chart, Standards Practice in Sheet Metal Work.

**Availability**

Distributed directly.

**Formerly**

Sheet Metal Contractors National Association (1956)

**Keywords**

air-conditioning; air handling; indoor air quality;

**SILVER INSTITUTE**

John H. Lutley, Executive Director

1112 16th Street, NW  
Suite 240  
Washington, DC 20036  
(202) 835-0185

FAX: (202) 835-0155

Founded: 1971

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Standards Designation	Unified Number Designations.
Government Adoption	Government use, not adoption.
Certification	No certification programs, supplier self certification.
Scope	An international trade association of miners, refiners, fabricators, and bullion dealers. Extends the market for the use of silver through publications, seminars, joint symposiums with technical organizations, and trade shows.
Standardization Activities	Develops standard alloy designations for silver alloys for Unified Numbering System for Metals and Alloys issued by the Society of Automotive Engineers (SAE) and the American Society for Testing and Materials.
Availability	Distributed directly and through ASTM and SAE.
Keywords	silver; precious metals; bullion; alloys; materials;

#### SINGLE PLY ROOFING INSTITUTE

Dave Roodvoets, Technical Director

175 Highland Avenue  
Needham, Massachusetts 02194  
(617) 444-0242 FAX: (617) 444-6111

Founded: 1982 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	SPRI began independent standards development in 1995. In 1988 developed a standard in conjunction with the Rubber Manufacturers Association. 100 individuals participate in developing standards. 1 active standard processed through ANSI. Draft standards are available from the organization.
Standards Designation	ANSI/SPRI.
Scope	SPRI is a nonprofit trade association representing sheet membrane and component suppliers to the commercial roofing industry. Its function is to develop methods for improving the conditions and



advancing the best interests of the flexible sheet membrane manufacturing industry. There are 50 member companies.

**Standardization  
Activities**

SPRI committees collect data, evaluate proposed procedures and publish documents to meet the technical needs of the commercial roofing industry.

**Availability**

Directly from SPRI.

**SKI INDUSTRIES AMERICA**

Chris Stoddard, Committee Administrator

20 Maple Street  
Post Office Box 2883  
Springfield, Massachusetts 01101  
(413) 781-4732 FAX: (413) 781-6105

Founded: 1989 Standards Staff: 2

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since 1963.

**Government  
Adoption**

U.S. Department of Agriculture Forest Service, and states where skiing exists.

**Secretariat**

ANSI B77.1

**Scope**

A trade association of ski area operators, manufacturers, and suppliers of ski equipment. Twelve hundred members located in all states and several foreign countries. Aims are: to promote skiing and safety in skiing, to protect natural resources in meeting the needs of the skiing public and ski area operators, and to ensure legitimate interests of ski area operators.

**Standardization  
Activities**

Maintains committee composed of operators, users, authorities having jurisdiction, designers, and manufacturers of aerial tramways. Developed American National Standard B77.1, Safety Requirements for Passenger Tramways and Lifts, Surface Lifts, and Tows. Promotes this safety standard for the ski lift industry, used by ski lift manufacturers, ski area personnel, ski area insurance programs, and state and federal authorities having jurisdiction.

**Availability**

Distributed directly and through ANSI.

Keywords                      aerial tramways; cable cars; cableways; ski lifts; sports; skiing; recreation;

SLEEP PRODUCTS SAFETY COUNCIL

Patricia A. Martin, Executive Director

333 Commerce Street  
Alexandria, Virginia 22314  
(703) 683-8371                      FAX: (703) 683-4503

Founded: 1986                      Standards Staff: 1

Type of                      Trade Association  
Organization                Works through other organizations to develop standards

Representation              Consumer Product Safety Commission (CPSC)  
American Society for Testing and Materials (ASTM)  
National Fire Protection Association (NFPA)

Standards                    Instrumental in maintaining Federal Standard for the  
Development                Flammability of Mattresses and Mattress Pads, and two  
voluntary standards for bedding products used in  
institutional occupancies: ASTM E-1590-94a and NFPA  
267.  
Approximately 20 volunteer members and non-members  
participate in these activities.

Government                State governments may reference any of the  
Adoption                    above three standards for use in institutional  
occupancies (i.e., hotels/motels, hospitals, etc.).

Keywords                    bedding; mattresses; flammability; safety;

SMALL MOTOR MANUFACTURERS ASSOCIATION

Elizabeth Bevington-Chambers, Executive Director

Post Office Box 378  
Sherborn, Massachusetts 01770  
(508) 655-4409                      FAX: (508) 651-3920

Founded: 1975                      Standards Staff: 4

Type of                      Trade Association  
Organization                Standards Developer

Standards                    Standards developer since 1975.  
Development                185 member companies participate in standards activities.  
12 active standards plus 2 under development.

<b>Certification</b>	No certification, qualification, or accreditation programs.
<b>Scope</b>	An international industry organization representing original equipment manufacturers, users, suppliers, and other interested parties involved in the manufacture of fractional and subfractional horsepower electric motors and their controls.
<b>Standardization Activities</b>	The Technical Committee works with Underwriters Laboratories, Canadian Standards Association, government agencies and other associations in developing standards. Topical areas include: tachometers; general motor terminology; permanent magnet motors; permanent split capacitor motors; universal motors; shaded pole motors; and technical reference information for brushes, contacts, magnets, and other materials of motor construction. Promotes manufacturer/user interface.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	electrical equipment; tachometers; industrial equipment; motors; magnets;

#### **SNELL MEMORIAL FOUNDATION**

Hal A. Fenner, Jr., M.D., President

Post Office Box 493  
St. James, New York 11780  
(516) 862-6440

FAX: (516) 862-6545

Founded: 1957

Standards Staff: 7

<b>Type of Organization</b>	Nonprofit research corporation Standards developer
<b>Certification</b>	Approves manufacturers products meeting its standards and other criteria for certification under contractual agreements, providing, among other matter, ongoing random sample testing of helmets taken from dealer shelves. Through its certification program, the Foundation is able to keep in the forefront of improvements in the state of the manufacturing art, both as to methodology and materials, and to obtain data useful in its research program and its development of more sophisticated test procedures.
<b>Secretariats</b>	ANSI Z90, Vehicular Head Protection

Scope	A nonprofit corporation whose primary purpose is to conduct research in brain trauma and head protective devices and to develop and utilize advanced techniques for related critical measurements. Establishes upper level standards for protective devices, maintains an ongoing research program in head injury and a program in education related to vehicular safety. Linked with European counterpart, Snell Memorial Foundation (UK).
Standardization Activities	Promulgated in 1959 the first standard for road user crash helmets in the United States. Its helmet standards are generally recognized as carrying the most stringent safety performance requirements for road user protective headgear in the world today. Has also established standards of safety performance criteria for skiers, bicyclists, and equestrian protective helmets. Standards are not minimum standards; but, rather, represent the upper levels of protective criteria which manufacturing is capable of meeting, and as that capability increases, the level of the standard is raised.
Availability	Distributed directly.
Keywords	helmets; head protection; vehicular safety; brain trauma; bicyclists; motorcyclists; equestrians; safety; social welfare; sports;

#### SNOWMOBILE SAFETY AND CERTIFICATION COMMITTEE

Edward J. Klim, Chairman

271 Woodland Pass

Suite 220

East Lansing, Michigan 48823

(517) 332-0886

FAX: (517) 332-1760

Founded: 1974

Standards Staff: 1

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Standards developer since 1974.  
4 manufacturers participate in standards activities.  
29 active standards.  
Standards processed by SAE.  
Draft standards available for review.

Standards  
Designation

SSCC/10, Safety Standards for Snowmobile Product  
Certification.

<b>Government Adoption</b>	All or portions of the standard accepted by Connecticut, Maine, Maryland, Massachusetts, Michigan, Minnesota, Montana, New Hampshire, Oregon, Pennsylvania, Rhode Island, Vermont, Wisconsin and Canada.
<b>Certification</b>	Certification program administered since 1975. Each conforming machine bears a Certification Label which signifies that the United States Testing Company, has independently confirmed that the vehicle has been manufactured in compliance with SSCC safety standards. In the area of operator education, provincial and state safety training programs are certified by the SSCC as being in compliance with uniform standards. To date, the instructional programs of 16 states and provinces have been certified.
<b>Scope</b>	A nonprofit membership association organized to promote, foster, and encourage by any and all lawful means, safe, enjoyable opportunities for snowmobiling through operator safety training and education programs; safe trail, use area and facility development; development of voluntary snowmobile machine safety standards and the independent certification thereof.
<b>Standardization Activities</b>	Has established a comprehensive machine standards program for snowmobile manufacture. Since February 1, 1975, all snowmobiles produced by participating manufacturers conform to the minimum safety standards for snowmobile product manufacture in effect on the date of their manufacture. Incorporated in the standards are requirements for seats, controls, brake and fuel systems, shields and guards, electrical and lighting systems, reflectors, hand grips, general hazard requirements and emergency starting.
<b>Availability</b>	Sold directly.
<b>Keywords</b>	snowmobile; safety; acoustics; recreation;

#### **SOCIETY FOR EXPERIMENTAL MECHANICS**

Kenneth A. Galione, Managing Director

7 School Street

Bethel, Connecticut 06801

(203) 790-6373

FAX: (203) 750-6373

e-mail: sem@transit.nyser.net

Founded: 1943

Standards Staff: 1

**Type of Organization**

Scientific Society  
Standards Developer



Standards Development	Standards developer since 1980. Forty firms participate in standards activity. One active standard pending through ANSI.
Standards Designation	Strain Gage Bridge Designation and Color Code of Terminal Connections for Portable Strain Indicators.
Certification	Strain Gage Technician certification program expected by June 1996. SEM is affiliated with the British Society for Strain Measurements which does certify and accredit.
Scope	Specialists in experimental mechanics in this country and overseas active in academic, government, and industrial research and development and include engineers, manufacturers, consultants, user and vendors of plant equipment, services, and systems. Maintains close contact with professional groups in Europe, Japan, Korea and in the United States through joint meetings and combined memberships.
Standardization Activities	Represents a broad range of activities in experimental mechanics. Various Technical Division Committees serve professional interests in areas such as composite materials, fracture, modal analysis, structural testing, residual stresses, optical methods, strain gages, and transducers.
Availability	Distributed directly.
Formerly	Society for Experimental Stress Analysis
Keywords	structural stress; material stress; experimental mechanics; testing; design life, validation techniques;

#### SOCIETY FOR INFORMATION DISPLAY

Dr. Andras I. Lakatos, President

1526 Brookhollow Drive  
Suite 82  
Santa Ana, California 92705-5421  
(714) 545-1526 FAX: (714) 545-1547  
e-mail: socforinfodisplay@mcimail.com  
WWW: <http://www.display.org/sid>

Founded: 1962 Standards Staff: 3

Type of Organization	Professional Society Standards Developer
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<b>Standards Development</b>	Joint standards with Electronic Industries Associations through joint committees with SID writing standards and EIA administrating standards written by SID. SID Definitions and Standards Committee maintains liaison with other standards formulating groups within the industry.
<b>Standards Designation</b>	SID/EIA prefixes.
<b>Scope</b>	SID is international in scope with membership in academic, commercial and government organizations. Display theory, display device and systems development and psychological and physiological effects of displays are all within the area of activities performed by the society.
<b>Standardization Activities</b>	Flat panel, cathode-ray and other display devices and systems definitions, test methods and tutorial documents. Two joint SID/EIA committees are currently active in writing standards. These are JT20 for Cathode-Ray Display Devices and JT33 for Flat Panel Displays.
<b>Availability</b>	Directly through EIA or SID.
<b>Keywords</b>	displays; definitions; characterization; viewability; data processing; electronics; television; communications;

#### **SOCIETY FOR TECHNICAL COMMUNICATION**

William C. Stolgitis, Executive Director

901 N. Stuart Street  
Suite 904

Arlington, Virginia 22203-1854

(703) 522-4114

FAX: (703) 522-2075

e-mail: stc@tmn.com

Founded: 1957

Standards Staff: 1

#### **Type of Organization**

Professional Society for Technical Communicators

#### **Scope**

A nonprofit, educational membership organization whose purpose is to advance the theory and practice of technical communication in all media. It has chapters in the United States, Canada, and other countries.

Activities include chapter programs, an annual international technical communication conference, publication of a journal, and standards and reference material used in technical documentation, manuals, reports, and writings.

Standardization Activities	Maintains a Standards Council which is interested primarily in guidelines which bear directly upon the profession of technical communications, and data and procedural standards for science, engineering, and the arts that must be applied, interpreted, or referenced in technical communication. Cooperates with the American National Standards Institute, the Metric Association, and others concerned with publication of technical information.
Formerly	Merger of Association of Technical Writers and Editors, and Society of Technical Writers (1957)
Keywords	technical writing; technical information; communications; metric;

#### SOCIETY OF ALLIED WEIGHT ENGINEERS

Robert E. Johnston, Executive Secretary

5530 Aztec Drive  
La Mesa, California 91942-2110  
(619) 465-1367 FAX: (619) 465-2561

Founded: 1939 Standards Staff: 1

Type of Organization	Professional Society Developer of recommended practices
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Standards Development	Develop Society of Allied Weight Engineers, Inc. (SAWE) Recommended Practices. Currently, ten (10) SAWE Recommended Practices are active. They were developed through government/industry volunteer member working committees. Typically, several dozen members are involved with the several committees. Once approved by a working committee, formal Board of Directors approval is required before Recommended Practices are adopted. First Recommended Practice was approved in 1981. None are processed through ANSI. None are distinctly metric.
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Standards Designation	Approved Recommended Practices are designated Society of Allied Weight Engineers, Inc., Recommended Practice Number ---. Example: "Society of Allied Weight Engineers, Inc., Recommended Practice Number 5, Mass Properties Control System For Wheeled and Tracked Vehicles, Issue No. 1, Issued 13 May 1986."
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<b>Certification</b>	No certification, qualification, or accreditation programs.
<b>Scope</b>	The Society of Allied Weight Engineers was organized to promote recognition of mass properties as a specialized discipline within the entire spectrum of professional engineering. The principal means of accomplishing this objective is an annual international conference for the presentation and discussion of engineering papers, including engineering standards and recommended practices, and to publish and distribute the papers, reports and recommended practices. There are approximately 1000 individual and/or company members worldwide.
<b>Standardization Activities</b>	Government/industry working committees collect data, evaluate proposed procedures, determine nomenclature, etc., while developing and/or revising Recommended Practices through year-long reviews (sometimes several years) culminated by formal approval at the cognizant Government/Industry Workshop at the annual international conference. Formal approval by SAWE Board of Directors is also required before a Recommended Practice can be made available for use.
<b>Availability</b>	Distributed directly.
<b>Formerly</b>	Society of Aeronautical Weight Engineers, Inc. (1973)
<b>Keywords</b>	balance; center of gravity; mass properties; moment of inertia; weight control;

#### **SOCIETY OF AUTOMOTIVE ENGINEERS**

Herb Kaufman, Manager, Technical Division

400 Commonwealth Drive  
 Warrendale, Pennsylvania 15096  
 (412) 776-4841 FAX: (412) 776-0243  
 WWW: <http://www.sae.org/>

Founded: 1905 Standards Staff: 125

<b>Type of Organization</b>	Professional Society Standards Developer
<b>Standards Development</b>	Standards developer since 1905. 14 000 members participating in standards activities. 1400 ground vehicle standards documents published in the SAE Handbook. 2250 Aerospace Standards. 2300 Aerospace Material Specifications. Over 1500 documents annually are processed through ANSI.

Standards Designation	<p>J-Reports, Ground Vehicle Industry Standard, Recommended Practice and Information Report.</p> <p>AMS, Aerospace Material Specification.</p> <p>MAM, Metric Aerospace Material Specification.</p> <p>AS, Aerospace Standard.</p> <p>MA, Metric Aerospace Standard.</p> <p>ARP, Aerospace Recommended Practice.</p> <p>MAP, Metric Aerospace Recommended Practice.</p> <p>AIR, Aerospace Information Report.</p>
Government Adoption	<p>The Department of Defense has adopted over 1300 SAE documents. SAE standards are recognized in government publications as methods for measuring or testing for minimum technical requirements in areas where government regulatory control has been established.</p>
Accreditation	<p>SAE operates several accreditation programs under the sponsorship of industry and government. The Lubricants Review Program and Oil Labeling Assessment Programs are operated for the U.S. Army. The JGES Verification Program is operated under a contract for NIST. A new Defense Contractor Accreditation (NADCAP) program will audit and approve suppliers to the aerospace industry.</p>
Secretariats	<p>Sponsors several secretariats and/or Technical Advisory Groups for ISO Technical Committees and Subcommittees including ISO/TC 20, TC 22, TC 70, TC 96, TC 127, TC 188, and TC 204.</p>
Scope	<p>A not-for-profit educational, scientific, and engineering society dedicated to advancing the arts, sciences, standards, and engineering practices connected with the design, construction, and utilization of self-propelled mechanisms, prime movers, components thereof, and related equipment to preserve and improve the quality of life.</p> <p>Prime objectives are to provide educational opportunities for engineers and to provide a medium through which they can advance the arts and science of engineering and promote public welfare. There are only individual memberships in SAE. Therefore, members perform their SAE functions as individuals, not as representatives of their employers. SAE interfaces with every agency of the government concerned with the design, manufacture, or regulation of vehicles. Because of the government's interest in regulatory activities relating to transportation equipment, and as a large volume purchaser of vehicles of all types, government agencies have historically drawn upon SAE and its Cooperative Engineering Program for information and assistance.</p>



Develops and publishes technical literature and formulates engineering standards, specifications, and test procedures that are used in the design and manufacture of ground and aerospace vehicles.

**Standardization  
Activities**

Engages in technical standardization work for the motor vehicles, aircraft, airline, space vehicles, farm tractor, earthmoving, roadbuilding machinery, and other manufacturing industries using internal combustion engines. Standards are the product of 600 Technical Committees. Standards are revised as needed to keep them up-to-date with new engineering developments. Obsolete standards are discontinued. Standards in the SAE Handbook include: safety performance test codes; material specifications; and dimensional requirements on such subjects as vehicle lighting, tires, brakes, ride and vibration, steels, non-metallic materials, screw threads, and involute splines. Although voluntary, SAE standards are widely used throughout industry and many federal and state regulations reference them for minimum performance on safety items.

SAE Aerospace Standards, Recommended Practices, and Information Reports are design and/or parts standards applicable to missile, airframe, ground-support equipment, propulsion, propeller, accessory equipment, and airline industries. Aerospace Recommended Practices give dimensional, design and/or performance recommendations intended as guides for standard engineering practice. The Aerospace Information Reports contain useful engineering data and information.

SAE Aerospace Material Specifications cover materials, material tolerances, quality control procedures and processes. They list chemical composition, detailed technical requirements, and cross-reference similar specifications and materials for corrosion and heat resistant steels; wrought low-alloy steels; cast iron and low-alloy steels; aluminum, magnesium, copper, titanium and miscellaneous nonferrous alloys; nonmetallics; special property materials; and refractory and reactive materials.

**Availability**

Distributed through ANSI, IHS, Global, American Technical Publishers, and the Defense Printing Service, CD-ROM.

**Formerly**

Society of Automobile Engineers (1917)

**Keywords** vehicles; automobiles; trucks; buses; aircraft; aerospace; engines; tractors; farm equipment; construction equipment; ground support equipment; fuels; lubricants; material; metals; alloys; refractories; defense; materials; transportation;

#### SOCIETY OF CABLE TELECOMMUNICATIONS ENGINEERS

William Riker, President

140 Philips Road  
Exton, Pennsylvania 19341-1318  
(610) 363-6888 FAX: (610) 363-5898

Founded: 1969 Standards Staff: 3

**Type of Organization** Professional Society  
Standards Developer

**Certification** Technical certification programs available at three levels: Installer, Broadband Communications Technician and Broadband Communications Engineer.

**Scope** Membership is primarily comprised of engineers, technicians and installers working in the cable telecommunications industry. The Society provides numerous training programs on broadband technology.

**Standardization Activities** ANSI approved standards developer. Five engineering subcommittees working on broadband industry hardware and interfaces.

**Formerly** Society of Cable Television Engineers, Inc.

**Keywords** broadband; telecommunications; cable television;

#### SOCIETY OF FIRE PROTECTION ENGINEERS

Brian Meacham, P.E., Technical Director

One Liberty Square  
Boston, Massachusetts 02109-4825  
(617) 482-0686 FAX: (617) 482-8184  
e-mail: sfpehqtrs@delphi.com

Founded: 1950

**Type of Organization** Professional Society  
Works through other organizations to develop standards

<b>Representation</b>	603 representatives serve on technical committees of the National Fire Protection Association
<b>Scope</b>	Multinational professional society of fire protection engineers with more than 4150 members.
<b>Keywords</b>	fire safety;

#### **SOCIETY OF MOTION PICTURE AND TELEVISION ENGINEERS**

Carlos V. Gilrod, Jr., P.E., Director of Engineering

595 W. Harsdale Avenue  
 White Plains, New York 10607  
 (914) 761-1100 FAX: (914) 761-3115  
 e-mail: eng@smpte.org  
 WWW: <http://www.smpte.org/>

Founded: 1916 Standards Staff: 5

<b>Type of Organization</b>	Professional Society Standards Developer
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<b>Standards Development</b>	Standards developer since 1916. 250 members participating in standards activities. 160 active standards processed through ANSI. Draft standards available for review.
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<b>Standards Designation</b>	SMPTE prefix. Example: ANSI/SMPTE 273M-1995, SMPTE Standards for Television-Status Monitoring and Diagnostics Protocol.
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<b>Government Adoption</b>	DoD adopts these standards regularly.
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<b>Certification</b>	No certification, qualification, or accreditation programs.
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<b>Secretariats</b>	ISO/TC 36, Cinematography
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<b>Scope</b>	A nonprofit organization concerned with the engineering aspects of motion pictures, television, instrumentation, high-speed photography, and the allied arts and sciences. Develops technical standards for motion picture engineering and television.
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<b>Standardization Activities</b>	Activities divided among eight parent technology committees. Cooperates with national and international organizations such as AES, EIA, IEEE, major foreign national standards bodies. International Telecommunication Union (ITU), ISU, and IEC.
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**Availability** Distributed directly or through ANSI.

**Formerly** Society of Motion-Picture Engineers

**Keywords** motion pictures; television; video recording; photography; communications;

#### **SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS**

Francis M. Cagliari, Executive Director

601 Pavonia Avenue, Suite 400  
Jersey City, New Jersey 077306  
(201) 798-4800 FAX: (201) 798-4985

Founded: 1893 Standards Staff: 3

**Type of Organization** Professional Society  
Works through other organizations to develop standards

**Representation** ASTM F-25

**Scope** A technical, professional society of individual members serving the maritime and offshore industry and its suppliers. Activities include all aspects of research, design, production, maintenance and operation of ships, submersibles, yachts, boats, offshore and ocean bottom structures, and other advanced marine vehicles. Provides a forum for exchange of technical information. Administers a research program involving 100 individuals as voluntary members and permanent staff in cooperation with government and regulatory agencies, scientific and research laboratories, academic institutions, and the marine industry.

**Standardization Activities** Although not a standards developing organization, one of its technical panels has the responsibility of initiating standards and specifications for the Shipbuilding Standards Committee F-25 of the American Society for Testing and Materials (ASTM). This is Panel SP-6 (Standards and Specifications) of the Ship Production Committee. In this way, SNAME interfaces directly with the F-25 standards development activity. F-25 draws upon the expertise of the SNAME Technical and Research Program by soliciting comments on the need for certain shipbuilding standards and by using these same panels when conducting the necessary consensus review under the ASTM process. These standards are published periodically by ASTM.

Standards developed to date include various shipbuilding parts, such as cable brackets, hangars, pipe fittings and flanking, certain containers, angle irons, etc. Panel SP-6 is also involved in a program for the redrawing of selected naval military specifications into commercial ASTM standards. SNAME members are

called upon to review many of these standards along with the standards committees of ASTM.

Certain panels of the Society are also called upon to comment on the standards for small boats undertaken by Underwriters Laboratories (UL).

**Keywords** marine; shipbuilding; boats; transportation;

## **SOCIETY OF SANITARY ENGINEERING**

Diana Corcoran, Executive Secretary

28901 Clemens Road  
Westlake, Ohio 44145  
(216) 835-3040

FAX: (216) 835-3488

Founded: 1906

Standards Staff: 3

### **Type of Organization**

Technical Society  
Standards Developer

### **Standards Development**

38 active standards.  
Standards submitted for ANSI approval.

### **Standards Designation**

SSE or ASSE prefix.

### **Certification**

SSE Seal Program.

### **Scope**

Plumbers, contractors, apprentices, journeymen, inspectors, engineers, health officials, and manufacturers interested in promoting public health and sanitation. Conducts research on plumbing and sanitation.

### **Standardization Activities**

Develops performance standards for plumbing system components. Standards provide a tool for measuring quality and effectiveness of a product. Products meeting these standards are identified by the ASSE Seal. Components of plumbing systems include backflow prevention devices, pressure regulators, water hammer arresters, water mixing and shower control valves, anti-siphon hydrants, and other devices which directly affect public health and safety.

### **Availability**

Distributed directly and through IHS.

### **Formerly**

American Society of Sanitary Engineering



**Keywords**

plumbing; construction; sanitation; public health;

**SOCIETY OF THE PLASTICS INDUSTRY**

Larry L. Thomas, President

1275 K Street NW, Suite 400

Washington, DC 20005

(202) 371-5200

FAX: (202) 371-1022

Founded: 1937

Standards Staff: 10

**Type of  
Organization**

Trade Association  
Standards Developer

**Certification**

Sponsors a certification program for molded expanded polystyrene block insulation based on ASTM C578. Sponsors jointly with AAMA a certification program for vinyl window lineals based on ASTM D4727 and AAMA 303.

**Scope**

A trade and technical society of 2000 companies in the plastics industry interested in quality standards, research, uniform accounting, traffic rates, wage rate survey, tariffs, codes, public relations, informative labeling, safety, fire prevention, and food packaging. Membership consists of: injection, compression, and transfer molders; laminators; extruders; fabricators; calenders; printers; embossers; reinforced plastics processors; raw material suppliers; machinery and equipment manufacturers; tool, die and mold makers; research and development; and testing laboratories.

**Standardization  
Activities**

Cooperates and supports the preparation of standards for plastics products through organizations such as the American Society for Testing and Materials, the American National Standards Institute, and the National Sanitation Foundation. Financially supports the U.S. secretariat to the International Organization for Standardization, ISO/TC 61, Plastics, and participates in its activities. Also participates in ISO/TC 138, Plastic Pipe, Fittings and Valves for the Transport of Fluids.

Two divisions of the society develop product performance standards and test methods, which are processed through the American Society for Testing and Materials. These activities maintain liaison with code and regulatory agencies and work to have vinyl building components accepted as generic products in code standards.

**Keywords** plastic; laminate; molding; machinery; materials; building products;

**SOLAR RATING AND CERTIFICATION CORPORATION**

Linda Ladas, Administrative Manager

122 C Street, NW  
Washington, DC 20001  
(202) 383-2650

FAX: (202) 383-2670

Founded: 1974

Standards Staff: 4

**Type of Organization** Rating and Certifying Body

**Standards Designation** SRCC prefix.

**Certification** The Solar Rating and Certification Corporation (SRCC) certifies several independent testing laboratories for solar collector and solar domestic hot water systems tests. SRCC randomly selects equipment for testing, interprets test data, and publishes a certified product rating directory.

**Scope** Manufacturers and installers of solar energy systems and components, and distributors, contractors, and engineers whose purpose is to accelerate and foster commercialization of solar energy conversion for economic purposes. Compiles statistics and offers computerized services.

**Standardization Activities** The Solar Rating and Certification Corporation develops solar industry certification for heating equipment. Members are also involved in international standards development activities.

Approximately 25-50 member companies are involved at different times in several certification organizations.

**Availability** Distributed directly.

**Keywords** solar collectors; water heating; testing; energy;

## SOUTHERN BUILDING CODE CONGRESS INTERNATIONAL

W. J. Tangye, P. E., Chief Executive Officer

900 Montclair Road  
Birmingham, Alabama 35213  
(205) 591-1853

FAX: (205) 592-7001

Founded: 1940

Standards Staff: 10

Type of Organization	Professional Society Standards Developer
Standards Development	Standards developer since 1945. 5500 members active in standards activities.
Standards Designation	The Standard Building, Plumbing, Mechanical, Gas, Fire Prevention and Housing Codes.
Government Adoption	These codes have been adopted by reference by some 2200 communities primarily in the Southwest, South, and Southeast.
Certification	Provides educational and certification programs for persons involved in the administration and enforcement of building codes.
Scope	Promulgates codes that will assure the minimum acceptable level of life safety in the building environment. These cover the entire scope of the construction industry as related to buildings and structural occupied by the public. Also provides technical, educational and computer support to users of the codes.
Standardization Activities	Holds public hearings to update codes. Any interested party may submit proposed changes and participate in the public hearings, two of which are held each year.
Availability	Distributed directly.
Formerly	Southern Standard Codes
Keywords	building code; mechanical code; gas code; fire code; safety; housing code; safety; construction; building;

## SOUTHERN CYPRESS MANUFACTURERS ASSOCIATION

Susan M Regan, Executive Vice President

400 Penn Center Blvd., #530  
Pittsburgh, Pennsylvania 15235  
(412) 829-0770

FAX: (412) 829-0844

Founded: 1917

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Scope	Producers, wholesalers and distributors of cypress lumber and manufacturers of other cypress products.
Standardization Activities	Publishes grading rules for cypress lumber.
Availability	Distributed directly.
Keywords	wood products; grading rules; lumber; cypress;

#### SOUTHERN FOREST PRODUCTS ASSOCIATION

Karl W. Lindberg, President

P.O. Box 641700

Kenner, Louisiana 70064-1700

(504) 443-4464

FAX: (504) 443-6612

Founded: 1915

Standards Staff: 1

Type of Organization	Trade Association Works through other organizations to develop standards
Scope	An association of 38 southern pine companies with 142 mills (located from Texas to Virginia). Conducts marketing research and public affairs programs and a biennial machinery exposition.
Standardization Activities	Standards developed through organizations like the Southern Pine Inspection Bureau, American Forest & Paper Association, American Wood Preservers Association, and the American Society for Testing and Materials are used extensively in SFPA marketing efforts. These include span tables, recommendations for end use applications, treating specifications, metric conversions, model building codes, and other similar activities dealing with lumber applications.
Formerly	Southern Pine Association
Keywords	lumber; wood products;

## SOUTHERN PINE INSPECTION BUREAU

Tom S. Jones, President

4709 Scenic Highway  
Pensacola, Florida 32504-9094  
(904) 434-2611 FAX: (904) 433-5594

Founded: 1940

Standards Staff: 8

### Type of Organization

Service Bureau  
Standards Developer

### Standards Development

Standards developer since 1940.  
374 subscribers representing 70 percent of Southern Pine  
production.  
Five active standards.

### Standards Designation

SPIB prefix.

### Government Adoption

The Departments of Defense and Veterans Affairs,  
Federal Housing Administration, and various state and  
local regulatory agencies have adopted and recognized the Southern  
Pine Inspection Bureau Grading Rules.

### Certification

Maintains a certification program in which it licenses subscribers  
to use its registered grade-mark when subscribers meet the  
necessary qualifications. The Bureau maintains a similar program  
for companies that treat lumber by a pressure process for  
protection against insect and decay attack with approved chemicals  
in accordance with the standards of the American Wood Preservers  
Association. The quality of lumber treated by the pressure  
process is under the supervision of Bureau Quality Supervisors.  
Those treating plants which prove their proficiency and capability  
of maintaining the required level of treatment are licensed to  
apply the Bureau quality mark to their lumber.

### Scope

An autonomous nonprofit agency and the recognized organization in  
the Southern Pine industry for the formulation and maintenance of  
grading standards. Has carried on a standardization program since  
1940 developing grading rules for Southern Pine lumber in  
conformance with the Board of Review of the American Lumber  
Standards Voluntary Products Standard PS 20-94, published by the  
National Institute of Standards and Technology, National  
Evaluation Service of CABO, and ANSI.

Certified as a supervisory grading agency by the Board of Review  
of the American Lumber Standards Committee.



<b>Standardization Activities</b>	<p>Actively participates in the formulation and maintenance of the American Lumber Standards for Softwood Lumber. Maintains representation on the Committee on Wood of the American Society for Testing and Materials and American Wood Preservers Association. Member of ANSI.</p> <p>Maintains standards of size and grade classifications for the benefit of the lumber using public and the lumber manufacturing industry. These include domestic and export grade rules and standards for glued lumber and mechanically graded lumber. Provides inspection facilities. These inspection facilities are used not only as a means of adjudicating disputes between buyers and sellers, but also for the certification of Southern Pine lumber before shipment from the mill. Grading and manufacture are under the supervision of Bureau Quality Supervisors. Those mills which prove their proficiency in grading and agree to maintain the established standards of size and grade moisture content are licensed to grade-mark their lumber with a Bureau mark.</p>
<b>Availability</b>	Sold directly.
<b>Keywords</b>	wood products; grading rules; lumber; wood preservation; inspection;

#### **SOUTHWEST RESEARCH INSTITUTE**

Joseph S. Kittle, Director

Program Development Office  
 Post Office Drawer 28510  
 San Antonio, Texas 78228-0510  
 (210) 522-5498 FAX: (210) 522-3496

<b>Type of Organization</b>	<p>Nonprofit Research Institute</p> <p>Works through other organizations to develop standards</p>
<b>Representation</b>	<p>ANSI, ASME, API, ASTM, IEEE, NFPA, SAE, National Marine Manufacturers Association, BOAC, SSBCI, USL, UL, ISO, IMO</p>
<b>Standardization Activities</b>	<p>Works with SAE and API under sponsorship of the Coordinating Research Council, Inc., in the development of rating standards used to subjectively rank the results of an engine oil test. These rating standards evaluate sludge, varnish, rust, and other visible phenomenon, such as ring sticking, scuffing, and wear. These standards are the only recognized subjective rating techniques used by industry in the evaluation of engine lubricants. In a similar capacity, develops standardized test procedures and performs certification testing to evaluate two-cycle engine lubricants for the National Marine Manufacturers Association. Worked with ASTM and automobile manufacturers in the development of the industry-recognized Sequence Tests for diesel</p>

and gasoline engine lubricants. Participated in development of standards for electromagnetic compatibility which resulted in SAE J1338 and J1113. Evaluates the fire performance of a variety of materials, products, and construction elements. Performs a wide array of environmental testing up to and including seismic.

**Keywords**

certification; lubrication; engines; testing; EMC; electrical equipment; materials; fire performance; fire testing; flame spread; environmental testing; seismic testing;

**SPECIAL LIBRARIES ASSOCIATION**

David Bender, Executive Director

1700 18th Street, NW  
Washington, DC 20009-2508  
(202) 234-4700  
e-mail: slal@capcon.net

FAX: (202) 265-9317

Founded: 1909

Standards Staff: 1

**Type of  
Organization**

Professional Society  
Works through other organizations to develop standards

**Representation**

Represented on ANSI committees concerned with development of standards in the following areas: library/information science and publishing practices, photographic reproduction, and library equipment.

**Scope**

An international organization of more than 15 000 librarians and information managers. Serves industry, business, government agencies, research, educational, and technical institutions requiring or providing specialized information.

**Standardization  
Activities**

Participates in the work of ANSI accredited organizations including PH5, Photographic Reproduction of Documents; Z39, Library/Information Science and Related Publishing Practices; Z85, Library Equipment and Supplies. Works with maintenance organizations, especially the National Information Standards Organization (NISO) and ISO Technical Advisory Group 46. The SLA Standards Committee provides guidance in these areas.

**Keywords** library equipment; library science; information processing; office products;

**SPORTING ARMS AND AMMUNITION MANUFACTURERS' INSTITUTE**

Robert T. Delfay, Executive Director

Flintlock Ridge Office Center  
11 Mile Hill Road  
Newtown, Connecticut 06470-2359  
(203) 426-1320 FAX: (203) 426-1087

Founded: 1926 Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1926.  
41 representatives active in standards activity.  
Draft standards available for review.

**Standards Designation** ANSI/SAAMI and SAAMI prefixes.

**Government Adoption** Used by Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the United States government.

**Scope** Serves the mutual interests of the United States sporting firearms and ammunition industry with emphasis on activities to assure safe use of these products by sportsmen and others having a lawful need for them.

**Standardization Activities** Maintains a Technical Committee which reviews industry test methods, procedures, and recommended manufacturing safety practices; two subcommittees work in the areas of ammunition and firearms. Establishes definitive proof loads recommended for factory tasting of United States made sporting firearms, thus assuring greater safety to the user of such arms. Maintains liaison with the Department of Defense in relation to manufacturing, testing, and performance specifications of commercial ammunition purchased by the government

**Availability** Sold directly and through ANSI.

**Formerly** The Society of American Manufacturers of Small Arms and Ammunition (1918-1926)

**Keywords** ammunition; firearms; defense; safety; sports;

## SPORTS CAR CLUB OF AMERICA

Nicholas Craw, President

9033 E. Easter Place  
Englewood, Colorado 80112  
(303) 694-7222

Founded: 1944

Standards Staff: 2

### Type of Organization

Recreational/Technical Society  
Standards Developer

### Scope

A nonprofit organization with 52 000 members. Sanctions national and regional races and ten major professional racing series listed on the International Calendar. Sanctions rallies (precision driving tests over a given route at an exact speed), solo events (intricate driving maneuvers in a cleared area), concours d'elegance (rating cars by a correlation of age, condition, and equipment of the vehicle), and numerous international events and world championship races.

### Standardization Activities

Develops safety standards for competitions, and standards and procedures for speed events for automobiles taking part in such events, for issuance of competition licenses, and for the organization and conduct of its events. These standards and procedures are published in General Competition Rules; Rally and Solo Rules; and Professional Racing Regulations.

Participates in American National Standards Committee Z90, Vehicular Head Protection, concerned with safety requirements for head protection for automobile drivers engaged in high hazard activities or occupations, as well as crash helmets for motorcyclists, designated as American National Standard Z90.1.

### Availability

Distributed directly.

### Keywords

sports; automobile racing;

## STANDARDS COMMITTEE FOR HI-LOK, HI-TIGUE, AND HI-LITE PRODUCTS

Frank L. Gill, Chairman

2600 Skypark Drive  
Torrance, California 90509-2975  
(310) 326-8110

FAX: (310) 784-4096

Standards Staff: 1

Type of Organization	Trade Association Standards Developer
Certification	Licensees are under surveillance and approval by the Committee.
Scope	Actively engages in standardization activities for fasteners. Membership includes and is open to licensees of Hi-Shear Corporation, users of products, and government standardization representatives.
Standardization Activities	Develops, publishes, and maintains hundreds of proprietary product standards, specifications, and process procedures for the proprietary Hi-Lok, Hi-Tigue, and Hi-Lite fasteners. Holds two official meetings each year, one of which is an international meeting held in Europe. Solicits input from all members.
Availability	Distributed directly.
Keywords	fasteners; manufacturing;

#### STANDARDS ENGINEERING SOCIETY

Donald L. Kear, P.E, Cstd, Executive Director

1706 Darst Avenue  
Dayton, Ohio 45403-3104  
(513) 258-1955 FAX: (513) 256-9919

Founded: 1947 Standards Staff: 1

Type of Organization	Professional Society Standards Developer
Representation	Approximately 50 percent of the members participate in standardization activities of standards developers ranging from international organizations to trade associations. Membership is open nationally and internationally.
Certification	Certification program exists in Standards Application, Standards Management, Standards Information, and Standards Development. Certification is open to members and nonmembers.
Scope	A professional technical society of 450 standards practitioners for companies and government agencies. Objectives include providing a forum for the exchange of information in the standardization discipline and promoting the knowledge and use of national and international standards.



Standardization Activities	SES does not generally develop standards as a society, but members represent their organizations on numerous national and international standards making committees. The Society, however, has approved an American National Standard, "Recommended Practice for Standards Designation and Organization," that covers designations, titles, keywords, abstracts, and formats for standards.
Formerly	Standards Engineers Society (1980)
Keywords	standards profession; general; social welfare; standards users;

#### STEEL DECK INSTITUTE

Bernard E. Cromi, Managing Director

P.O. Box 9506

Canton, Ohio 44711

(216) 493-7886

Founded: 1936

FAX: (216) 493-7928

Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	Standards developer since 1939. Active in AISI, AISC and ASCE. None processed through ANSI.
Representation	Technical personnel of member firms serve on standards committees and subcommittees of organizations such as AISI, AISC and ASCE.
Certification	Provides its members, as well as non-members, a product certification service conducted by independent engineers at appropriate charges.
Scope	Manufacturers of steel roofs and steel floor decks. Formulates technical recommendations for improvement of metal deck construction and develops standard design practices. Promotes proper building regulations. Conducts research on earthquake construction and fire and wind resistance. Compiles statistics.

<b>Standardization Activities</b>	Periodically publishes the Steel Deck Institute Design Manual for Composite Decks, Form Decks, and Roof Decks. It contains: Specifications and Commentaries, the Code of Recommended Standard Practice, Roof Deck Construction, Suggested Architect's Specifications, SDI Standard Load Tables, Roof Deck Fire Resistance Ratings, and Cantilever Criteria. Also publishes the Steel Deck Institute Diaphragm Design Manual.
<b>Formerly</b>	Metal Roof Deck Technical Institute
<b>Keywords</b>	steel decks; roofs; building;

**STEEL DOOR INSTITUTE**

<b>Type of Organization</b>	J. Jeffery Wherry, Managing Director  30200 Detroit Road Cleveland, Ohio 44145 (216) 899-0010  Founded: 1954	FAX: (216) 892-1404  Standards Staff: 5
<b>Standards Development</b>	Standards developer since 1954. 12 member companies participating in standards activities. Seventeen active standards including three ANIS standards.	
<b>Government Adoption</b>	SDI standards have been adopted by numerous government agencies.	
<b>Certification</b>	No certification, qualification, or accreditation programs.	
<b>Scope</b>	A nonprofit trade association of United States companies engaged in the production for sale of swing type steel doors and frames in the construction industry.	
<b>Standardization Activities</b>	Administered by its Technical Committee, standardization activities represent a large percentage of the Institute's total program. Maintains liaison with numerous federal agencies including General Services Administration, Army Corps of Engineers, Department of Defense, Department of Housing and Urban Development, Federal Housing Administration and the Department of Veterans Affairs. Works closely with various code groups and has been instrumental in establishing and promulgating a great number of standards helpful to the construction industry, including: standardized specifications for steel doors and frames; standardized hardware locations and hardware preparation; building code improvements; and performance specifications.	

Availability Distributed directly.

Keywords steel doors; frames; building;

#### STEEL FOUNDERS SOCIETY OF AMERICA

Malcolm Blair, Technical and Research Director

Cast Metals Federation Building  
455 State Street  
Des Plaines, Illinois 60016  
(708) 299-9160 FAX: (708) 299-3105

Founded: 1902 Standards Staff: 2

Type of Trade Association  
Organization Standards Developer

Standards Standards developer since 1964.  
Development 80 members participating in standards activities.  
14 specifications on foundry raw materials.

Standards SFSA prefix.  
Designation

Certification No certification, qualification, or accreditation programs.

Secretariats U.S. Subcommittee Advisory Group to ISO/TC, 17/SC 11, Steel Castings

Scope Manufacturers of steel castings. Compiles statistics and conducts research programs.

Standardization Develops own standards for foundry raw materials and  
Activities works through other organizations to develop standards for the manufacture and use of carbon, low alloy and high alloy steel castings. Also participates in ASTM, ISO, ANSI, NACE, API, MSSVFI, ASME standards activities.

Availability Distributed directly.

Formerly Alloy Casting Institute (1970)

Keywords steel; castings; high alloy; foundry; materials;

**STEEL JOIST INSTITUTE**

R. Donald Murphy, Managing Director  
  
1205 48th Avenue North, Suite A  
Myrtle Beach, South Carolina 29577  
(803) 449-0487 FAX: (803) 449-1343  
  
Founded: 1928

Type of Organization      Trade Association  
Standards Developer  
  
Standards Development      Standards developer since 1928.  
  
Certification      Established certification procedures are required for member companies.  
  
Scope      A nonprofit organization of manufacturers engaged in the manufacture and distribution of steel joists. Objectives are: to establish and standardize methods of design and construction for steel joists; to provide test and research data for public dissemination; to assist in the development of appropriate building code regulations; and to publish information relative to the proper use of steel joists in the interest of safety and public welfare.  
  
Standardization Activities      Current standard specifications are recognized throughout the industry and include Load Tables for Open Web, Longspan, and Deep Longspan Steel Joists comprising K-Series, LH-Series and DLH-Series. In addition, the Institute has developed standard specification and weight tables for Joist Girders, which are primary structural members.  
  
Availability      Sold directly.  
  
Keywords      joist; steel joists; building;

**STEEL MANUFACTURERS ASSOCIATION**

James F. Collins, President  
  
1730 Rhode Island Avenue, NW  
Suite 907  
Washington, DC 20036-3101  
(202) 296-1515 FAX: (202) 296-2506  
e-mail: [steelnet@aol.com](mailto:steelnet@aol.com)  
WWW: <http://www.steelnet.org>  
  
Founded: 1988      Standards Staff: 2

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Scope</b>	A North American trade association with 59 members producing steel mill products, accounting for 40 percent of United States steel production. Most of the membership are electric furnace steel producers. The SMA provides a forum for the exchange of information on technical matters and operations; develops and supports public policy positions consistent with the interests of its members; and serves as a source of information on the steel industry to suppliers, customers, and various governmental entities.
<b>Standardization Activities</b>	Does not issue standards but sponsors American Society for Testing and Materials Standards A615, A616, A617 (Rail and Axle Steel, Concrete Reinforcing Bars, and a Standards Specification for Hot Rolled Steel Fence Posts). Additional counsel and committee activity with ASTM are also undertaken by the association.
<b>Formerly</b>	Organization resulted from the merger in 1988 of the Steel Bar Mills Association and the National Steel Producers Association
<b>Keywords</b>	steel; steel bars; materials;

#### STEEL PLATE FABRICATORS ASSOCIATION

	Wade Newman, Executive Director
	3158 Des Plaines Avenue Des Plaines, Illinois 60018 (708) 298-0880
	FAX: (708) 298-2015
	Founded: 1933
	Standards Staff: 2
<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	Representatives of member companies are appointed to serve on standards committees of AWWA, ASME, ANSI, API, AWS, NFPA and others.
<b>Scope</b>	A national trade association representing companies engaged in the fabrication and erection of all types of weldable metal plate into pressure and nonpressure tanks, processing and storage vessels, heat exchangers, penstocks, weldments, and other products for industries worldwide.



Standardization Activities	Works with standards developing organizations to update accepted standards in order to keep current with continuing improvement in materials and techniques.
Keywords	steel fabrication; steel plate; manufacturing; industrial equipment;

#### STEEL SERVICE CENTER INSTITUTE

	David R. Roland, President
	127 Public Square Suite 2400 Cleveland, Ohio 44114-1216 (216) 694-3940 FAX: (216) 694-3940
	Founded: 1909 Standards Staff: 1
Type of Organization	Trade Association Works through other organizations to develop standards
Representation	Two safety specialists from member companies serve as voting delegates on ANSI B11 Committee.
Scope	A voluntary trade association representing the interests of some 80 percent of the metal service center industry which serves the metal supply needs of some 300 000 manufacturers and fabricators through 1000 outlets.
Standardization Activities	Participates in the development of safety standards for powerdriven machines used by the industry as developed through Committee B11.
Formerly	American Iron, Steel, and Heavy Hardware Association (1909) American Steel Warehouse Association (1934) Steel Service Center Institute (1959)
Keywords	metal; steel; distribution; materials;

#### STEEL SHIPPING CONTAINER INSTITUTE

	Richard B. Norment, Executive Director
	1101 14th Street, NW Suite 1020 Washington, DC 20005-5601 (202) 408-1900 FAX: (202) 408-1972
	Founded: 1944 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
Standards Development	SSCI serves as the Secretariat for the American National Standards Institute's ANSI MH2 Committee on new steel drums and pails. The current standards are issued in ANSI MH2-1996, which contains 24 separate standards for steel containers in common use.
Standards Designation	ANSI MH2-1996.
Government Adoption	By reference in military and federal specifications.
Secretariat	Accredited Standards Committee MH2, Steel Drums and Pails
Scope	The Steel Shipping Container Institute is the Secretariat for this committee which is comprised of representatives of groups directly affected by the consensus standards for steel drums and pails. These groups include carriers, manufacturers, user groups and regulators who agree on the rules and regulations which are covered by these standards. Public canvass is conducted by ANSI after the committee agrees to content. Once any comments resulting from the canvass are resolved, the edited standards are published by ANSI and list the members of the committee including the SSCI Secretariat.
Availability	Distributed through ANSI.
Keywords	packaging; pails; drums;

#### STEEL STRUCTURES PAINTING COUNCIL

Dr. Bernard R. Applemer, Executive Director

40 24th Street  
Pittsburgh, Pennsylvania 15213  
(412) 281-2331 FAX: (412) 281-9992

Founded: 1950 Standards Staff: 4

Type of Organization	Technical Society Standards Developer
Standards Development	Standards developer since 1950. 85 active standards. No current standards processed through ANSI. Draft standards available for review.

<b>Standards Designation</b>	SSPC prefix.
<b>Government Adoption</b>	27 standards adopted by DoD.
<b>Certification</b>	Painting Contractor Certification Program.
<b>Scope</b>	Determines and outlines the best methods developed for cleaning and painting steel; issues specifications covering practical and economical methods of surface preparation and painting of steel structures; and evaluates through long-range research programs (involving field and laboratory work) the various methods, coatings, and costs necessary to prevent or reduce corrosion on steel structures.
<b>Standardization Activities</b>	35 committees with 1000 members participating in standards activities. Assimilates the newest technology into usable and effective specifications for the coatings industry. Develops standards through a comprehensive voluntary consensus process. Issues standards for surface preparation, paint application, painting systems, and paints. Surface preparation specifications describe hand and power tool cleaning, chemical cleaning, and all levels of blast cleaning. Develops visual standards for surface appearance after cleaning as an optional supplement to the surface preparation specifications. Paint application standards for: shop, field, and maintenance painting; measurement of paint film thickness; guides for safety in paint application; and a guide for maintenance repainting. Also has visual standards for evaluating the degree of rusting on painted steel surface.
<b>Availability</b>	Distributed directly and through IHS and Global.
<b>Keywords</b>	protective coatings; anti-corrosion; painting; paint; steel; materials;

#### **STEEL TANK INSTITUTE**

Wayne B. Geyer, Executive Vice President

570 Oakwood Road  
Lake Zurich, Illinois 60047  
(708) 438-8265 FAX: (708) 438-8766

Founded: 1916 Standards Staff: 3

Type of Organization	Trade Association Standards Developer
Standards Development	Began developing standards in 1952. 30-40 volunteer members typically participate in the development of standards. 7 active standards. ANSI accreditation first obtained in 1995. Draft standards available for review only on case-by- case basis.
Standards Designation	STI prefix.
Government Adoption	The STI-P3 specification is referenced in U.S. Environmental Protection Agency 40 CFR 280, technical requirements for underground storage tanks.
Certification	Manufacturers become qualified to fabricate in accordance with STI-P3, ACT-100, Permatank, F921 and Fireguard specifications. Through a licensing process, STI administers a strict quality technical assurance program, utilizing independent quality assurance inspectors who routinely visit fabrication shops.
Scope	A trade association representing steel tank manufacturers and suppliers throughout the world on a wide range of technical, code, and related areas. Current membership consists of approximately 72 fabricator shops, 18 affiliate members who provide tank-related products and services, and 10 associate and international members. Develops and issues specifications covering fabrication methods for steel underground and aboveground storage tank technologies. Researches and develops recommended engineering, testing and installation practices for storage tanks and applicable issues such as corrosion control and secondary containment.
Standardization Activities	Seven committees with 40 members participating in standards activities. Through research and development, steel storage tank technologies and fabrication standards are developed and licensed to manufacturers. Developed underground storage tank (UST) standards for: exterior corrosion protection of steel; external corrosion protection of FRP composite steel; fiberglass-jacketed steel USTs; and dual-wall steel USTs. Developed above- ground storage tank (AST) standards for: steel ASTs with integral secondary containment; diked ASTs; and thermally insulated steel ASTs. Various recommended installation practices on both underground and aboveground storage tanks are developed and made available to contractors and other interested parties within the industry.

Availability	Distributed directly.
Keywords	steel tanks; underground storage; aboveground storage; corrosion protection; secondary containment; industrial equipment; construction; fuel storage; petroleum storage;
 <b>STEEL WINDOW INSTITUTE</b>	
	John H. Addington, Executive Secretary
	1300 Sumner Avenue Cleveland, Ohio 44115 (216) 241-7333 FAX: (216) 241-0105
	Founded: 1920 Standards Staff: 2
Type of Organization	Trade Association Standards Developer
Standards Designation	"A Specifiers Guide to Steel Windows."
Scope	A trade association composed of American steel window manufacturers. Through research and interchange of ideas among its members, develops and makes available to the building trade better products and services. Conducts surveys to determine usage data.
Standardization Activities	Issues Recommended Specifications for Steel Windows after performing simplification studies to identify preferred types and sizes. Circulates recommendations to members and interested parties.
Availability	Distributed directly.
Formerly	Metal Window Institute
Keywords	windows; steel windows; building;

**STUCCO MANUFACTURERS ASSOCIATION**

Robert F. Welch, Executive Secretary

507 Evergreen Road  
Pacific Grove, California 93950  
(408) 649-3466 FAX: (408) 647-1552  
e-mail: rweclh@redsift.com

Founded: 1957 Standards Staff: 1



Type of Organization	Trade Association Standards Developer
Scope	Promotes the use of colored stucco finish coats in building construction. Increases industry's service to contractors, architects, and the public.
Standardization Activities	Develops standards as needed. Although national in scope, standard variations are recognized because of geographic differences in climate, skilled manpower, and material availability.
Availability	Distributed directly.
Keywords	stucco; masonry;

#### SUMP AND SEWAGE PUMP MANUFACTURERS ASSOCIATION

Pamela W. Franzen, Managing Director

P.O. Box 647

Northbrook, Illinois 60065-0647

(708) 559-9233

FAX: (708) 559-9235

Founded: 1956

Type of Organization	Trade Association Standards Developer
Certification	Provides a certification and labeling program for all products which conform to specified standards.
Scope	A national trade organization representing the manufacturers of domestic sump sewage and effluent pumps, together with component and accessory suppliers. Activities include: development and promulgation of quality standards; spelling out design and performance criteria for sump sewage and effluent pumps used in homes; development and dissemination of statistical information designed to describe market size and activity; promotion of improved provisions in building codes on the use of such pumps; and education efforts designed to encourage proper and safe installation, maintenance, and use of domestic sump sewage and effluent pumps.
Standardization Activities	Developed the Domestic Sump Effluent and Sewage Pump Standards which are national in scope and designed to supply the purchaser and user with accurate performance data and to assist in the determination of proper application and selection of this equipment. They provide a uniform method of testing and rating, and include a specification system covering basic materials of construction for all major components. They also detail minimum

specifications for motors, nameplate data, service cords, and control switches.

**Availability** Distributed directly.

**Formerly** Sump Pump Manufacturers Association (1981)

**Keywords** pumps; buildings; industrial equipment;

#### TECHNICAL AND OFFICE PROTOCOL (TOP)

see CORPORATION FOR OPEN SYSTEMS INTERNATIONAL

#### TECHNICAL ASSOCIATION OF THE PULP AND PAPER INDUSTRY

William L. Cullison, Executive Director

Technology Park/Atlanta  
P.O. Box 105113  
Atlanta, Georgia 30348  
~~FAX~~0) (446)1406-6947  
e-mail: cbohanan@tappi.org

Founded: 1915 Standards Staff: 2

#### Type of Organization

Technical Society  
Test Method Developer

#### Standards Development

Test methods developer since 1915.  
276 Official, Provisional, and Classical Test Methods.

#### Standards Designation

T -- Official, Provisional, and Classical Test Methods.  
UM -- Useful Test Methods, which are published by TAPPI but have not been through the regulated review process; no new UMs have been published after 1989.

#### Scope

Purposes are: to further the application of the sciences in the pulp and paper industry; to promote investigation, research, and interchange of ideas among its members in the field of pulp and paper manufacture and use; to promote education in the science and practice of pulp and paper manufacture; to arrange for the collection and dissemination of information; to provide technical facts, data, and testing procedures fundamental to pulp and paper manufacture and use; and to promote the professional, social, and economic welfare of its members.

<b>Standardization Activities</b>	<p>Publishes testing procedures which include Official, Provisional, Classical, and Useful Methods prepared by technical committees and approved by the various divisions of TAPPI in accordance with rules and regulations prescribed by the Test Methods Subcommittee of the Quality and Standards Management Committee. Classical Methods are former Official or Provisional Methods which have been superseded by advanced technology. Useful Methods are those found useful in the industry but not worthy of consideration as Official or Provisional Methods.</p> <p>Cooperates with the American Society for Testing and Materials and the Intersociety Color Council in developing color standards, and the American National Standards Institute in promoting American and International Standards.</p>
<b>Availability</b>	Distributed directly and through IHS and Global.
<b>Keywords</b>	pulp; paper; forest products; wood products; corrugated container; packaging;

#### TECHNICAL CERAMICS MANUFACTURERS ASSOCIATION

	<p>Richard C. Byrne, Secretary</p> <p>25 North Broadway Tarrytown, New York 10591 (914) 332-0040</p> <p>Founded: 1978</p>	<p>FAX: (914) 332-1541</p> <p>Standards Staff: 2</p>
<b>Type of Organization</b>	Trade Association Standards Developer	
<b>Scope</b>	Manufacturers of kiln fired ceramic compositions which result in ceramic products of many uses that withstand high temperature, long use, great mechanical, electrical and chemical stresses.	
<b>Standardization Activities</b>	Develops standards for general test methods, inspection sampling, loss factor tests, resistance to thermal extremes, and other technical characteristics.	
<b>Availability</b>	Distributed directly.	
<b>Formerly</b>	Dry Process Manufacturers Association Ceramic and Steatite	
<b>Keywords</b>	ceramic products; materials;	

## TELECOMMUNICATIONS INDUSTRY ASSOCIATION

Dan Bart, Vice President, Standards and Technology

2500 Wilson Boulevard

Suite 300

Arlington, Virginia 22201

(703) 907-7703

FAX: (703) 907-7727

e-mail: dbart@tia.eia.org

WWW: <http://www.industry.net/tia>

Founded: 1988

Standards Staff: 12

### Type of Organization

Trade Association  
Standards Developer

### Standards Development

Developed standards under the auspices of EIA's ANSI accreditation from 1988 and then became independently ANSI accredited in 1991. The Engineering Department provides the home for over 70 TIA Engineering Committees and Subcommittees that develop TIA standards and other technical publications. Over 1200 technical personnel from member companies participate in standards activities through committees, subcommittees and task groups.

### Standards Designation

TIA/EIA or EIA/TIA for American National Standards. Also develops Interim Standards (IS) and Telecommunications Systems Bulletins (TSB).

### Government Adoption

The Department of Defense adopts TIA Standards applicable to their needs.

### Certification

None.

### Secretariats

Administered through the Electronic Industries Association.

### Scope

A national trade association of companies providing communications materials, products, systems, distribution services and professional services to the United States and countries around the world. TIA's member companies manufacture virtually all of the products used in the modern communications network. TIA is a full-service organization which provides numerous services including: government relations market support activities, such as trade shows and trade missions; standards setting activities; and educational programs. TIA represents the telecommunications industry in association with the Electronic Industries Association.

### Standardization Activities

Accredited by the American National Standards Institute in 1991, TIA is a major contributor of voluntary standards that promote trade and commerce in telecommunications products. Areas of expertise include: Antennas for Microwave Towers, Cellular Equipment for Analog, CDMA, TDMA, Cellular Intersystem standards,

Citizen's Band (CB) Radio, Data Interchange and Transmission Equipment including modems, Facsimile Equipment, Fiber Optics Cable Specifications, Cleaving Specifications, Closures Specifications, Connectors, Specifications, Optical Fiber System Designs, Optical Fiber System Testing, Symbols, Terminology, Fiber Optic Test Procedures, Tools, Waveguide Specifications, Land Mobile Communications Equipment, Point-to-Point Microwave Towers, Personal Communications Services (PCS), Telephones/Terminal Equipment, Key Systems, Network Channel Terminal Equipment, Private Branch Exchange (PBX) and Telecommunications Wiring/Cabling.

**Availability** Distributed through IHS, Global Engineering Documents and ANSI.

**Formerly** TIA was formed in April 1988 after a merger of the U.S. Telecommunications Suppliers Association (USTSA) and the Information and Telecommunications Technologies Group of the Electronic Industries Association (EIA/ITG).

**Keywords** cellular; citizen's band radio; data interchange; digital interfaces; facsimile; modems; land mobile communications; microwave; personal communications systems (PCS); network; telephones;

#### TEXTILE RENTAL SERVICES ASSOCIATION OF AMERICA

John J. Contney, Executive Director

1130 East Hallandale Beach Boulevard  
Suite B  
Post Office Box 1283  
Hallandale, Florida 33008  
(305) 457-7555

FAX: (305) 457-3890

Founded: 1913

Standards Staff: 3

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** Standards developer since 1978 in health care linen service and for linen, towels, and garments.  
2200 members participating in standards activities.  
28 active standards.  
None processed through ANSI.  
Draft standards available for review.



<b>Standards</b>	TRSA Guidelines For Healthcare Linen Service.
<b>Designation</b>	TRSA Voluntary Purchasing Standards.
<b>Certification</b>	No certification, qualification, or accreditation programs.
<b>Scope</b>	A national trade association representing companies world-wide engaged in the rental and commercial laundering/linen field. TRSA member companies provide laundry and linen service to all areas of United States hospitals and all types of commercial establishments.
<b>Standardization Activities</b>	Directed toward fulfilling user defined requirements of the industry and its health care customers. Works closely with the American Hospital Association and the Joint Commission on Accreditation of Hospitals. TRSA standards relate to processing, delivery, cleanliness, sanitation, and management standards of textile rental service. Technical input is solicited throughout the hospital industry and its related trade associations and accrediting agencies.
<b>Availability</b>	Distributed through TRSA member companies worldwide and directly.
<b>Formerly</b>	Linen Supply Association of America (1978)
<b>Keywords</b>	laundry; linen service; hospital; textiles; sanitation; public health;

#### TILE COUNCIL OF AMERICA

Robert E. Daniels, Executive Director

Post Office Box 1787  
 Clemson, South Carolina 29633  
 (609) 921-7050 FAX: (609) 452-7255

Founded: 1946 Standards Staff: 3

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Standards Development</b>	17 active standards. Processed through ANSI.
<b>Scope</b>	A trade association of ceramic tile manufacturers dedicated to expansion of the ceramic tile industry in the United States through advertising, promotion, and research on tile installation methods.

Standardization Activities	Maintains contact with government agencies and other national organizations to assist with development and interpretation of standards and specifications for installation of ceramic tile.
	Annually publishes the guide specification Handbook for Ceramic Tile Installation. This covers all accepted ceramic tile installation methods and references installation and material standards applicable to the methods.
Availability	Distributed directly and through ANSI.
Keywords	tile; ceramic products; building;

#### TIRE AND RIM ASSOCIATION

	J. F. Pacuit, Executive Vice President and Secretary
	175 Montrose West Avenue Copley, Ohio 44321 (216) 666-8121
	FAX: (216) 666-8121
	Founded: 1903
	Standards Staff: 3
Type of Organization	Technical Standardizing Organization Standards Developer
Standards Development	Standards developer since 1917. None processed through ANSI. Draft standards not available for review.
Standards Designation	Tire and Rim Standard.
Secretariats	U.S. Technical Advisory Group for ISO/TC 31, Tires, Rims, and Valves.
Scope	The technical standardizing body of the tire, rim, and related parts manufacturers for the United States
Standardization Activities	Serves as the primary standards developing organization in areas such as tire loads, tire inflations, tire dimensions, recommended rims, dual spacings, rim dimensions, valve and valve hole dimensions for tire and rim equipment used on passenger cars, bicycles, motorcycles, motor scooters, trucks, buses, recreational vehicles, trailers, earthmovers, road graders, agricultural tractors and implements, industrial vehicles, mobile homes, and aircraft.
Availability	Distributed directly.

**Keywords**                      tires; rims; valves; transportation; consumer products;

**TOY MANUFACTURERS OF AMERICA**

David A. Miller, President

200 Fifth Avenue  
New York, New York 10010  
(212) 675-1141

FAX: (212) 633-1429

Founded: 1916

Standards Staff: 4

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Designation**

ANSI Z315.1, Safety Requirements for Tricycles; ASTM-F963-86, Voluntary Product Safety Standard for Toys; ASTM F834-95, Standard Consumer Safety Specification for Toy Chests.

**Secretariats**

U.S. Technical Advisory Group for ISO/TC 181, Toy Safety (participating member); ASTM. F15.22 subcommittee on Toy Safety.

**Scope**

The trade association for domestic producers and importers of toys, games, and holiday decorations with 250 members which together account for about 90 percent of the toy industry's total sales. The Association is recognized by government, the trade, the media, and consumers alike as the authoritative voice of the United States toy industry.

Helps toy makers meet the many challenges of the toy manufacturing marketplace. Its programs assist member companies in safety and quality control, credit and collection, distribution management, import/export trade, legal advice, public relations, statistics, consumer information, media relations, and advertising guidelines.

**Standardization  
Activities**

The Association actively participates, on both domestic and international levels, in the drafting of safety standards; and cooperates closely with governmental, safety, health, and consumer organizations in the development and application of standards for the safe use of playthings.

The industry's Voluntary Safety Standard ASTM F963-95 includes more than 100 separate testing and design specifications to assure that normal use and abuse of toys will not result in a hazard that could cause an injury.

Availability Distributed directly and through ANSI and ASTM.

Keywords toys; consumer products; safety;

#### TRAFFIC AUDIT BUREAU

Anna Fountas, President

420 Lexington Avenue  
Suite 2520  
New York, New York 10170  
(212) 972-8075 FAX: (212) 972-8928

Founded: 1933 Standards Staff: 1

Type of Professional Society  
Organization Standards Developer

Scope Consists of advertisers, advertising agencies, and operators of outdoor advertising plants. Furthers the joint interests of its membership and the general public.

Standardization Establishes standard practices with respect to the  
Activities circulation, evaluation, and visibility of outdoor advertising; supervises and directs practices in connection with the collection, recording, and authentication of traffic and other data related to outdoor advertising; and prepares and issues standardized factual statements of the circulation values of outdoor advertising plants.

Availability Distributed directly.

Keywords advertising; communications;

#### TRUCK MIXER MANUFACTURERS BUREAU

Raymond F. Wisniewski, Jr., Secretary

900 Spring Street  
Silver Spring, Maryland 20910  
(301) 587-1400 FAX: (301) 585-4219

Founded: 1945 Standards Staff: 2

Type of Trade Association  
Organization Standards Developer

Certification Rating plates are affixed to all mixers meeting Bureau standards.

Scope	Represents manufacturers of concrete truck mixers.
Standardization Activities	Participates with government in the development and interpretation of specifications. Cooperates with the National Ready Mixed Concrete Association to develop standards. Standards cover truck mixers and agitators, whether truck or trailer mounted. Publishes Truck Mixer and Agitator Standards.
Availability	Distributed directly.
Keywords	concrete; concrete mixers;

#### TRUCK TRAILER MANUFACTURERS ASSOCIATION

Donald W. Viermiasa, Vice President Engineering

1020 Princess Street  
 Alexandria, Virginia 22314  
 (703) 549-3010 FAX: (703) 549-3014

Founded: 1941 Standards Staff: 4

Type of  
 Organization

Trade Association  
 Standards Developer

Standards  
 Development

Presently offers 70 Recommended Practices and 48 Technical Bulletins.  
 83 Trailer manufacturing companies participate in development.  
 None processed through ANSI.

Standards  
 Designation

Recommended Practices and Technical Bulletins are by Number.

Certification

No certification, qualification, or accreditation programs.

Scope

An international trade association that represents the manufacturers of truck pulled trailers, cargo tanks, and intermodal containers, and manufacturers supplying components and parts to the trailer, tank, and container manufacturing industry.

Standardization  
 Activities

Recommended practices are issued as suggested solutions to design, specification, and manufacture or tests of truck trailers and their components. Examples include: trailer hitches and connections, air brake system tests, lighting devices, and tank construction.

Technical bulletins are issued to aid carriers or shippers in the operation of truck trailers or to improve their serviceability or use. Examples include: brake performance test methods, tank venting, corrosion prevention, and electrical wiring.



Works with organizations such as ANSI, ISO, the American Trucking Association, the Association of American Railroads, the Society of Automotive Engineers, American Petroleum Institute, U.S. Department of Transportation, U.S. Environmental Protection Agency, National Fire Protection Association, and others.

**Availability** Distributed directly.

**Keywords** trailers; containers; tractor-trailers; transportation; cargo tanks;

#### TRUSS PLATE INSTITUTE

Charles B. Goehring, Managing Director

583 D'Onofrio Drive, Suite 200  
Madison, Wisconsin 53719  
(608) 833-5900

FAX: (608) 833-4360

Founded: 1961

Standards Staff: 1

**Type of Organization** Trade Association  
Standards Developer

**Standards Development** 15 members active in standards development.

**Standards Designation** TPI, PCT, DSB, and QST prefixes.

**Certification** Provides an in-plant inspection service for manufacturers of metal plate connected wood trusses in accordance with Uniform Building Code (UBC) Standards under its Quality Control Inspection Program. TPI is recognized as an approved quality control agency for the inspection of metal plate connected wood trusses.

**Scope** A nonprofit organization of manufacturers engaged in the production and distribution of metal connector plates for the trussed rafter industry; maintains the industry on a sound engineering basis by establishing methods of design and construction for wood trussed rafters using metal connector plates; provides test and research data for public dissemination; assists in the development of proper building code regulations; and disseminates information relative to the proper use of wood trussed rafters in the interest of safety and public welfare.

<b>Standardization Activities</b>	Develops design standards for metal plate connected wood trusses, metal plate connected parallel chord wood trusses, and temporary bracing of metal plate connected wood trusses. Publishes a quality control standard, and a commentary on handling, installation and bracing of wood trusses. Promotes product acceptance with code authorities. Also publishes design criteria.
<b>Availability</b>	Distributed directly.
<b>Keywords</b>	wood trusses; wood rafters; wood products; building; metal connector plates; truss plates;

# **TUBE AND PIPE ASSOCIATION, INTERNATIONAL**

	Nancy Olson, Director of Membership
	833 Featherstone Road Rockford, Illinois 61107-6302 (815) 399-8700 FAX: (815) 399-7279
	Founded: 1983 Standards Staff: 1
<b>Type of Organization</b>	Educational Association Standards Developer
<b>Standards Development</b>	TPA has 2 active voluntary tube and pipe bending standards -- one for cold bending and one for induction bending.
<b>Scope</b>	An international educational association established to disseminate current and evolving technical and business information to producers and fabricators of tube and pipe.
<b>Standardization Activities</b>	Voluntary standards on tube and pipe bending are developed by Association Committees.
<b>Availability</b>	Directly from the association.
<b>Formerly</b>	International Pipe Association, 1990 Tube and Pipe Fabricators Association, 1995
<b>Keywords</b>	tube; pipe bending; pipe fabrication; pipe joining methods;

## TUBULAR EXCHANGER MANUFACTURERS ASSOCIATION

Richard C. Byrne, Executive Director

25 North Broadway  
Tarrytown, New York 10591  
(914) 332-0040

FAX: (914) 332-1541

Founded: 1939

Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Scope

Composed of manufacturers of shell and tube heat transfer equipment; establishes and maintains high-level design and manufacturing standards. Sponsors research programs and provides a forum for exchange of technical information.

### Standardization Activities

TEMA standards are prepared in 10 sections which clarify and expand material, thermal, and physical properties of fluids and contains other information related to various classes of exchangers. Three TEMA Engineering Software programs are also available.

### Availability

Distributed directly.

### Keywords

heat transfer; industrial equipment;

## TUBULAR RIVET AND MACHINE INSTITUTE

Richard C. Byrne, Administrator

25 N. Broadway  
Tarrytown, New York 10591  
(914) 332-0040

FAX: (914) 332-1541

Standards Staff: 1

### Type of Organization

Trade Association  
Standards Developer

### Scope

Represents United States companies engaged in the manufacture of rivets and rivet setting machines in technological areas.

### Standardization Activities

Works within the voluntary standards system to coordinate industry standards activities and acts as an industry voice. Ten members active in standards development. Distributes Metric Dimensional Standards for General Semi-Tubular Rivets. Is represented on industry standards and ANSI committees.

Availability Distributed directly.

Formerly Tubular and Split Rivet Council

Keywords rivets; fasteners; manufacturing;

#### TURFGRASS PRODUCERS INTERNATIONAL

Douglas H. Fender, CAE, Executive Director

1855-A Hicks Road  
Rolling Meadows, Illinois 60008  
(708) 705-9898 FAX: (708) 705-8347

Founded: 1967

Type of Trade Association  
Organization Standards Developer

Scope Objectives are: to promote efficient and economical production of sod; to develop standards in the industry; to promote the production of better quality sod and its proper use; and to increase public awareness of the industry.

Standardization Developed national guideline specifications for  
Activities sodding. Through use of sod specifications, assistance has been provided to various state and federal agencies, architects, landscape architects, contractors, and a wide variety of professional turfgrass managers.

Availability Distributed directly.

Keywords sod; seed; turf; grass; agriculture;

#### ULTRASONIC INDUSTRY ASSOCIATION

Martha Graff, Coordinator

P.O. Box 628  
Hilliard, Ohio 43206-8353  
(614) 771-1972 FAX: (614) 771-1984

Founded: 1956 Standards Staff: 3

Type of Trade Association  
Organization Standards Developer

Scope	Comprised of manufacturers of ultrasonic equipment and component parts. Promotes the industry; cooperates with government on legislation; and researches the use and safety of products.
Standardization Activities	Developed definitions covering basic industry terminology designed to promote a common language and facilitate understanding between manufacturers and users. Developed a standard rating covering ultrasonic generators.
	Cooperates with the American National Standards Institute, the Institute of Electrical and Electronics Engineers, National Safety Foundation, Acoustical Society of America, National Electrical Manufacturers Association, and American Society for Testing and Materials. Provides assistance to various government agencies such as the Departments of the Navy and Air Force, and maintains standardizing liaison with other government agencies, such as the Federal Communications Commission.
Availability	Distributed directly.
Formerly	Ultrasonic Manufacturers Association (1973)
Keywords	ultrasonic equipment; industrial equipment;

#### UNDERWRITERS LABORATORIES

Robert A. Williams, Corp. Manager, Standards and Research

333 Pfingsten Road  
Northbrook, Illinois 60062  
(708) 272-8800 ext.42570 FAX: (708) 509-6257  
WWW: <http://www.ul.com>  
Washington, DC  
(202) 638-2323 FAX: (708) 272-8129

Founded: 1894 Standards Staff: 80

Type of Organization	Independent, Not-for-Profit Corporation Testing for Public Safety Developer of Standards for Safety
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Standards Development	Standards developer since 1903. 686 published and 70 proposed Standards for Safety. 452 ANSI approved, 291 being processed through ANSI procedures. Activities open to participation by interested parties.
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Standards Designation	UL Standards for Safety.
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**Government  
Adoption**

The Department of Defense has adopted more than 150 Underwriters Laboratories Inc. (UL) Standards for Safety. In addition, other government agencies, including the General Services Administration and the United States Coast Guard, either require compliance with UL Standards for Safety or accept UL certification as constituting compliance with applicable regulations.

**Representation**

UL personnel contribute to standards and code-making activities by serving as members of over 500 committees of national and international organizations including ANSI, NFPA, ASTM, IEC, ISO, and others.

**Certification**

UL offers five services by which products or systems may be identified as complying with the requirements of UL or other organizations or regulating agencies, or as otherwise having been investigated by UL in accordance with specified methods or procedures. These services, their applicability, and the method of identification are:

1. Listing -- Products that have been investigated with respect to reasonable foreseeable risks to life and property and for which the risks have been reduced to an acceptable degree. Products are identified by the UL Listing Mark.
2. Classifications -- Products that have been investigated with respect to one or more of the following: (a) specific risks only, (b) performance under specified conditions, (c) regulatory codes, or (d) standards of organizations other than UL, including international standards. This service is generally applicable to industrial and commercial products. Products are identified by the UL Classification Marking.
3. Recognition -- Products that have only been investigated for use as components of equipment Listed or Classified by UL. Products are identified by the manufacturer's identification and a model number or the equivalent. Products may also be identified by the UL Recognized Component Mark.
4. Certificate -- Products that comprise a field installed system investigated at a specific location, or specific quantities of certain products, under such conditions that it is impractical to apply the Listing Mark or Classification Mark to each product. Products or systems are identified by a Certificate issued by the manufacturer or installer under UL's authorization.

5. Registered Firm -- Facility Quality Assurance Systems, by means of assessment and subsequent surveillance, providing assurance of a firm's capability of working to their specifications. Facilities so registered are permitted to use the Registered Firm Mark in advertising, but not in connection with any product.

As an integral part of each of these five services, UL maintains a Follow-Up Service under which UL conducts factory inspections and counterchecks of manufacturers' inspection and test procedures for determining continued compliance with the requirements under which the product or system was initially investigated.

In cooperation with EIA, UL serves as the National Supervising Inspectorate (NSI) of the IEC Quality Assessment System for Electronics Components (IECQ-System) for the United States. The IECQ-System is designed to encourage international trade in electronic components. It is intended that components certified by an approved manufacturer in one participating country be acceptable to users in other participating countries without further testing. The NSI is the national organization responsible for the surveillance of all quality assessment necessary for the system, including these responsibilities: approval of manufacturers, independent distributors, and independent laboratories; supervision of the Certificate of Conformity; and audit testing of approved components.

#### Secretariats

ANSI C101.1, Leakage Current for Electrical Appliances  
IEC/SC 31A, Flameproof Enclosures  
IEC/SC 31H, Apparatus for Use in the Presence of Ignitable Dust  
IEC/TC 61, Safety of Household and Similar Electrical Appliances  
IEC/TC 61D, Appliances for Air Conditioning for Household and Similar Purposes  
IEC/TC 61/WG9, Temperature Limits for Supplementary and Reinforced Insulation Under Abnormal Operation Conditions  
IEC/TC 74, Safety of Data Processing Equipment and Office Machines

#### Scope

Objectives are: to evaluate products and systems or to conduct scientific investigations, studies, experiments, and tests to determine the relation of various materials, devices, construction, and methods to life, fire, and casualty hazards; to ascertain, define, and publish standards, classifications, and specifications for materials, devices, constructions, and methods affecting such hazards; and to provide other information tending to reduce or prevent damage from fire, crime, and casualty.

## Standardization Activities

The primary business of UL is product safety through Facility Registration Product Certification, and UL's Standards for Safety play an important part of this process of investigation, identification, and audit. Each of UL's engineering departments has prepared standards for use in this work. A catalog listing all available UL Standards for Safety is published twice yearly. Members of UL's five Engineering Councils assist and advise UL engineers in an effort to provide safety requirements that reflect realistic considerations of field experience and practical judgements, as well as sound engineering technology. UL Engineering Councils currently serve in the areas of Burglary Protection, Casualty, Electrical, Fire, and Marine.

The Consumer Advisory Council members advise UL in establishing levels of safety for consumer products. They also provide additional user field experience and information in the area of product safety and assist in educating the general public in the limitations and safer use of specific consumer products.

UL Standards for Safety are developed under procedures that provide for participation, review, and comment from industry, government, insurance groups, consumers, other interested parties, and the general public. These procedures take into consideration the needs and opinions of a wide variety of interests concerned with the subject of the standard and afford due process to all those who will be affected by the standard.

UL's Technical Assistance to Exporters (TATE) program offers help to exporters in getting information about international and foreign national standards and information about foreign laboratories and certification programs. UL will investigate a product in accordance with a published foreign national standard or an international standard. UL-generated data may then be submitted to a foreign test station for considerations as a part of their investigation. UL also maintains a Technical Information Center (TIC) for providing access to information about standards, regulations, and submission procedures of foreign countries. The Technical Information Center also includes selected translations of foreign specifications.

## Availability

Distributed directly and through ANSI, IHS, Global Engineering Documents, the British Standards Institution, and the Standards Association of Australia. Translations of some UL Standards for Safety into languages other than English are available from the following organizations: French -- AFNOR; Japanese -- JMI Institute and the Japan Standards Association; and Korean -- Korea Institute of Machinery and Metals. UL Standards for Safety are available in microform and CD-ROM from IHS.

Formerly	Underwriters Electrical Bureau (1901)
Keywords	safety; certification; testing; burglary; casualty; marine; electrical equipment; fire protection; recreation; general; industrial equipment; consumer products; air handling; plastics; commercial equipment; building material;
 <b>UNIFORM CODE COUNCIL</b>	
	Stephen A. Brown, Vice President, Secretary and Counsel
	424 South Washington Street Alexandria, Virginia 22314 (703) 684-1424 FAX: (703) 684-1426 e-mail: thvr78a@prodigy.com
	Founded: 1971 Standards staff: 25
Type of Organization	Standards development organization
Standards Development	The UCC was created to administer the Universal Product Code (U.P.C.). Today, the UCC administers a variety of product identification standards and guidelines, and a variety of electronic data interchange standards. Typically, over 250 individuals participate in the development of standards.
Standards Designation	Product identification standards are designated ANSI/UCCX-YYYY, with X = number of the standard and YYYY = year it became an American National Standard. Electronic Data interchange standards are designated by version and date, for example, Version 3050, 1995 is version 3, release 5 of 1995.
Government Adoption	Two standards are currently referenced by the federal government.
Certification	No certification, qualification, or accreditation programs.
Scope	The UCC takes a global leadership role in establishing and promoting multi-industry standards supporting product identification and electronic data interchange. With over 165 000 members, the UCC's goal is to enhance the transaction and business processes that enable distribution channels to operate more efficiently and effectively while contributing added value to customers.



<b>Standardization Activities</b>	UCC staff, committees, and ad hoc groups, working with relevant industry organizations and groups, determine the needs of users. Once user needs are determined, we interface with technology suppliers to see if standards solutions can be proposed.
<b>Availability</b>	Standards and guidelines are available through the UCC office: 8163 Old Yankee Road, Suite J, Dayton, Ohio 45458.
<b>Formerly</b>	Uniform Grocery Product Code Council (1971) Uniform Product Code Council (1975)
<b>Keywords</b>	product identification; EDI; electronic data interchange; ADC; automatic data capture; container marking; U.P.C.; Universal Product Code; AI; Application Identifiers; bar codes; UCC/EAN-128; SSCC-18; SCC-14; WINS; Warehouse Information Network Standard; VICS EDI; Voluntary Interindustry Communication Standard; UCS; Uniform Communication Standard; SIL; Standard Interchange Language;

## UNITED LIGHTNING PROTECTION ASSOCIATION

Elizabeth Cooper Wendover, President

Cooper Road, Box 329A  
Millerton, New York 12546  
(800) 668-ULPA

FAX: (518) 789-4902

Founded: 1935

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	100 members active in lightning protection activities of standards developers such as UL and NFPA.
<b>Scope</b>	Provides reliable educational materials on the hazards of lightning and what constitutes proper lightning protection. Members must conform to the highest standards of lightning protection systems, engineering, installation, and service to maintain membership.
<b>Standardization Activities</b>	Members serve on numerous committees and in other key roles in helping to establish various standards and codes, such as the Lightning Protection Code of the National Fire Protection Association and the Lightning Protection Installation Requirements Code of Underwriters Laboratories. Consulted frequently by building supply manufacturers, insurance firms, safety groups, and power companies to advise on potential hazards and proper lightning protection.



**Keywords** lightning protection; building; safety;

**UNITED STATES COUNCIL FOR AUTOMOTIVE RESEARCH**

Strategic Standardization Board(SSB)

Fairlane Plaza South  
330 Town Center Drive  
Suite 100  
Dearborn, Michigan 48126  
(313) 248-4300

FAX: (313) 248-4303

Standards Staff: 4

**Type of Organization** USCAR-Research Consortium  
USCAR SSB-Standard Developer

**Standards Development** Develops standards, recommended practices, and technical reports.  
- Created first standard in 1994.  
- Approximately 30 individuals participate in the standards development process.  
- 5 active standards and recommended practices.  
- The USCAR Strategic Standardization Board has a contractual relationship with SAE International for document maintenance, publishing, and distribution services. Draft standards are available for review from SAE.

**Certification** The USCAR Strategic Standardization Board has no certification, qualification, or accreditation programs and has no intent to conduct such programs in the future.

**Scope** USCAR Strategic Standardization Board represents the technical standardization interests of Chrysler, Ford, and General Motors to identify and act on important opportunities for voluntary standardization. Specific goals are reduction in complexity, costs, timing, and improvement in quality. Major thrusts include anticipating the international spread of standards, influencing the development of new worldwide standards to assure compatibility of existing and emerging technologies and, with the support of their suppliers, proposing parts for joint engineering standardization and variety reduction.

<b>Standardization Activities</b>	The USCAR Strategic Standardization Board has developed standards related to engineering processes and commodity specifications. These processes and specifications are implemented through Chrysler, Ford, General Motors, and their suppliers via SAE industry documents and procedures.
<b>Availability</b>	Standards are distributed through SAE International.
<b>Keywords</b>	automotive; polymers; engineering processes; fasteners;

**UNITED STATES COUNCIL FOR INTERNATIONAL BUSINESS**

Abraham Katz, President

1212 Avenue of the Americas  
New York, New York 10036  
(212) 354-4480

FAX: (212) 575-0327

Founded: 1945

<b>Type of Organization</b>	Trade Association Works through global business organizations to develop international standards
<b>Representation</b>	U.S. National Committee of the International Chamber of Commerce (ICC). U.S. Committee of the International Organization of Employers (IOE). U.S. Affiliate of the Business and Industry Advisory Committee (USA-BIAC) to the Organization for Economic Cooperation and Development (OECD).
<b>Secretariats</b>	U.S. Secretariat for the U.S. Coordinating Group on European Union Affairs (USICG)
<b>Scope</b>	A trade association of 300 United States based multinational corporations, law firms, and industry associations. Represents its members by keeping them informed of international business development having a major impact on their operations.
<b>Standardization Activities</b>	Works with ICC to harmonize trade practices and terminology resulting in Universal Standards and the Uniform Customs and Practice for Documentary Credits. Serves as the business voice in the International Labor Organization which is active in establishing international labor standards in the form of conventions, which are binding on states which ratify them, and nonbinding recommendations. Works with OECD to provide models for national legislation, such as tax provisions, and voluntary standards of behavior for multinationals.

**Keywords** labor standards; social welfare; business; trade facilitation standards;

**UNITED STATES CUTTING TOOL INSTITUTE**

Charles M. Stockinger, Secretary/Treasurer

1300 Sumner Avenue  
Cleveland, Ohio 44115-2851  
(216) 241-7333 FAX: (216) 241-0105

Founded: 1988 Standards Staff: 1

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** ASME TC 6/Milling Cutter Bodies

**Scope** A trade association of companies which produce cutting tools. Aims to reduce manufacturing costs through standardization and eliminate waste, while encouraging competition. Encourages advances in engineering and manufacturing techniques, research and safety in the industry. Functions as an industry voice in matters of business and national concern.

**Standardization Activities** Promotes the standardization of sizes, dimensions and tolerances in cooperation with ANSI, ASME and other national and international engineering organizations. Actively participates in technical and advisory committees of major national standardizing bodies. Promulgates American National Standards on twist drills, reamers, taps and milling cutters which form the basis of federal specifications and individual company standards, as well as reflecting current United States industry practice in the formulation of ISO standards. Publishes the Metal Cutting Tool Handbook and pamphlets such as Drilled Holes for Tapping, Tolerances for Twist Drills and Reamers, and Standards and Dimensions for Taps and Dies.

**Formerly** Cutting Tool Manufacturers of America; Metal Cutting Tool Institute.

**Keywords** cutting tools; metal; manufacturing;

UNITED STATES GOLF ASSOCIATION

David B. Fay, Executive Director

Golf House  
P.O. Box 708  
Far Hills, New Jersey 07931-0708  
(908) 234-2300 FAX: (908) 234-9687

Founded: 1894 Standards Staff: 2

Type of Organization Trade Association  
Standards Developer

Scope National Club Membership consists of more than 9000 golf courses and clubs. Also more than 630 000 individual Members. Serves as a governing body for golf in the United States promotes scientific work in green keeping, environmental research, and turf management. Provides data on various topics, including handicapping and tournament procedures.

Standardization Activities Developed standards for golf balls and golf clubs. Maintains Rules of Golf used in the United States, with specifications concerning style and make of clubs, and size, weight, and velocity of golf balls included. These specifications are applicable to equipment and balls used in connection with tournaments.

Availability Distributed directly.

Keywords golf; golf equipment; sports; national championships, rules;

UNITED STATES HIDE, SKIN AND LEATHER ASSOCIATION  
A division of the American Meat Institute

Jerome J. Breiter, President

1700 N Moore Street, Suite 1600  
Arlington, Virginia 22209  
(703) 841-5485 FAX: (703) 841-9656

Founded: 1980 Standards Staff: 2

Type of Organization Trade Association  
Standards Developer

Scope A national trade association representing the hide and skin trade. Members include meat packers, hide processors, brokers and dealers, and exporters. Organized to promote and improve relations and conditions in the hide industry. Maintains liaison with allied trades, as well as the government.

Standardization Activities	Primarily concerned with developing a descriptive package to protect buyers and sellers of hides and skins. Standards describe the product and deal with delivery, trim, grading, weight loss in shipment, and tolerances with an emphasis on exporting.
Availability	Distributed directly.
Formerly	National Hide Association American Association of Hides, Skins and Leather Traders
Keywords	animal hide; leather; materials;

#### U.S. METRIC ASSOCIATION

	Valerie Antoine, Executive Director
	10245 Andasol Avenue Northridge, California 91325 (818) 368-7443 FAX: (818) 368-7443
	Founded: 1916 Standards Staff: 1
Type of Organization	Professional Society Works through other organizations to develop standards
Representation	1000 members participate in standards activities of the major standards developers. Some members are on metric committees of various standards writing groups
Certification	USMA has a Certified Metrication Specialist (CMS) program that is administered by the USMA CMS Board. The CMS award is made after an applicant passes a stringent examination.
Scope	A nonprofit organization representing 2000 members from many industries. Provides metrication information to companies; provides consumer and educational services. Also publishes a newsletter, Metric Today.
Standardization Activities	Involved primarily in promulgating correct SI metric usage in cooperation with ANSI, ASME, ANMC, NAS, and other societies in order to draft metric standards and help determine correct usage of metric units.
Keywords	metric; metric conversion; education; general; SI metric system;



UNITED STATES PHARMACOPEIAL CONVENTION

Jerome A. Halperin, Executive Vice President

12601 Twinbrook Parkway  
Rockville, Maryland 20852  
(301) 881-0666  
WWW: <http://www.usp.org>

FAX: (301) 816-8299

Founded: 1820

Standards Staff: 36

Type of  
Organization

Nonprofit Scientific Society  
Standards Developer

Standards  
Development

Standards developer since 1820.  
138 members of the General Committee of Revision plus  
about 500 persons in Expert Advisory Panels.  
1450 USP Reference Standards.  
3550 Official Monographs.  
1000 under development.  
None processed through ANSI.  
Draft standards available for review.

Standards  
Designation

USP, United States Pharmacopeia.  
NF, National Formulary.

Government  
Adoptions

The Food, Drug and Cosmetic Act makes USP and NF  
standards enforceable by the Food and Drug Administration.  
Comparable acts exist in most states. Canada and other countries  
recognize USP-NF in their laws and/or regulations. USP Dispensing  
Information is recognized as the authoritative compendia for  
medically accepted indications for drugs.

Certification

USP is not a certifying agency. FDA is required by law to certify  
each batch of insulin against USP standards before manufacturers  
release it.

Scope

Recognized authorities in medicine, pharmacy, and allied sciences.  
Revises and publishes the U.S. Pharmacopeia (USP) and the National  
Formulary (NF), the legal compendia of drug standards. Maintains  
a continuous current consensus of appropriate drug use information  
for health professionals and patients, published as USP Dispensing  
Information (DI).

Standardization  
Activities

Defines articles (i.e., drug substances, drug dosage  
forms, inactive ingredients, medical devices, and diagnostic  
agents); states standards for dietary supplements, strength,  
quality and purity; provides test methods to determine if articles  
meet standards; and establishes packaging and labeling  
requirements. Establishes authoritative therapeutic information  
for health professionals and patients. The elected volunteers of  
the Committee of Revision with the aid of Advisory Panels make the  
decisions. The employed staff coordinates these activities.

Cooperates with the World Health Organization, the Japanese Pharmacopoeia, the British Pharmacopoeia, and the European Pharmacopoeia. Also cooperates with the Foods Chemicals Codex, National Committee on Clinical Laboratory Standards, American Chemical Society, and ASTM. Publishes, bimonthly, the Pharmacopeial Forum, which is the drug standards development journal.

**Availability**

Subscriptions to USP 23 - NF 18 and to Pharmacopeial Forum are available directly, as are USP Reference Standards and USP Dispensing Information in paper, diskettes, and CD-ROMs.

**Keywords**

drugs; medical devices; diagnostic agents; nutrition; pharmaceuticals; pharmacopeias; chemicals; medicines; medical; drug information; patient drug use information; reference standards;

**U.S. PRODUCT DATA ASSOCIATION**

Bob Willis, President

P O Box 3310

Gaithersburg, Maryland 20885-3310

(301) 975-4658

FAX: (301) 926-8730

e-mail: uspro@scra.org

Founded: 1992

Standard Staff: 4

**Type of  
Organization**

Standards Developer

**Standards  
Development**

The IGES/PDES Organization (IPO) is currently developing two standards: Initial Graphics Exchange Specification (IGES), and Product Data Exchange using STEP, the adoption of the International Standard for the Exchange of Product Model Data (STEP).

**Standards  
Designation**

Both the IGES and PDES standards are designated ANSI/US PRO/IPO-xxx.

**Certification**

No certification, qualification, or accreditation programs.

**Secretariats**

U.S. Tag to ISO TC 184/SC 4; ISO 13584, Parts Library; Manufacturing Management Data (MANDATE) standards.

**Scope**

US PRO is the standards development organization for product data exchange technology in the United States, working on behalf of industry. As a nonprofit organization, it provides management and strategic direction for vendor and user organizations engaged in research, development, implementation, and testing of standards and specifications for the exchange and sharing of product information.

<b>Standardization Activities</b>	US PRO's ANSI-accredited organization which develop standards is the IGES/PDES Organization. The standards activities are managed through separate but coordinated projects: Initial Graphics Exchange Specification (IGES); Product Data Exchange using STEP (PDES); and the Testing projects.
<b>Availability</b>	Sold directly and through ANSI.
<b>Keywords</b>	IGES; PDES; STEP; MANDATE; CAD/CAM data; digital product data; drawings; geometric models; computer graphics;

## U.S. TENNIS COURT AND TRACK BUILDERS ASSOCIATION

Carol T. Shaner, CAE, Executive Vice President

720 Light Street  
 Baltimore, Maryland 21230  
 (410) 752-3500 FAX: (410) 752-8295

Founded: 1965 Standards Staff: 2

<b>Type of Organization</b>	Trade Association Standards Developer
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<b>Certification</b>	The association has developed a voluntary Builder Certification Program. To become a certified builder, a member must pass a written examination that demonstrates a high level of knowledge of tennis court construction.
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<b>Scope</b>	Represents tennis court and track builders in the United States and internationally. Members include builders of tennis courts, game courts, and running tracks; manufacturers of court and track surface materials, fencing, lighting systems, and court accessories; and professionals involved in the tennis and track industries.
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<b>Standardization Activities</b>	Developed Tennis Court and Running Track Guide specifications. Maintains technical committees to draft and update specifications. Also publishes a Maintenance and Repair Specification Guide for tennis courts and Lighting and Fencing Specifications.  The latest publications program includes a series of technical data bulletins on tennis court dimensions (with metric equivalents), windscreens, and site investigation for tennis courts and tracks. The series also includes site preparation, earthwork drainage, base/court construction, guidelines for reconditioning fast-dry tennis courts, tennis court orientation,
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and soil sterilization. It also covers color finish systems for tennis courts and resurfacing of asphalt courts. A track data series has also been initiated. The first bulletin covers the conversion of 440 yard tracks to 400 meters. Publishes a 400 meter even track markings layout in cooperation with the National Federation of State High Schools Association.

Participates in liaison committees with the U.S. Tennis Association, National Tennis Association, National Sporting Goods Association, Illuminating Engineers Society, National Federation of State High Schools Association, and the U.S. Track & Field Federation.

**Keywords** tennis courts; game courts; running tracks; sports;

#### USA RICE FEDERATION

David Graves, President

4301 N. Fairfax Drive  
Suite 305  
Arlington, Virginia 22203  
(703) 351-8161

FAX: (703) 351-8162

Founded: 1994

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Scope**

A national, nonprofit association. Charter members: Rice Millers' Association, USA Rice Council, U.S. Rice Producers' Group. Collects and compiles statistics; acts as a liaison between industry and government; arbitrates disputes; and assists in establishment of standards. Generally promotes rice research, production, milling and marketing.

**Standardization  
Activities**

Establishes standard contract terms and conditions for trade in rice and rice products. Adapts and uses grade and quality standards of the U.S. Department of Agriculture.

**Keywords** rice; grain; rice milling; agriculture; food;

#### **VACUUM CLEANER MANUFACTURERS ASSOCIATION**

Clifford J. Wood, Executive Vice President

P.O. Box 2642  
North Canton, Ohio 44720  
(216) 499-5998 FAX: (216) 499-5292

Founded: 1913

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Scope** Formed to promote the common business interests of vacuum cleaner manufacturers. Services include government affairs, industry statistics, engineering/technical and long range planning.

**Standardization Activities** Individual member companies of the association, along with general interest representatives, develop United States vacuum cleaner standards through the ASTM F-11 Vacuum Cleaner Committee. Individual member companies also work with the Canadian Standards Association. Maintains a representative on the vacuum cleaner technical committee of the International Electrotechnical Committee involved in the development of international standards.

**Keywords** vacuum cleaners; floor care; appliances; consumer products;

#### **VALVE MANUFACTURERS ASSOCIATION OF AMERICA**

J. Stephen Larkin, President

1050 17th Street, NW, Suite 701  
Washington, DC 20036  
(202) 331-8105 FAX: (202) 296-0378

Founded: 1938

**Type of Organization** Trade Association  
Works through other organizations to develop standards

**Representation** Members active in MSSVFI, API, AWWA, SME, ISA, NACE, ANSI, and ISO



Scope	Represents the flow control industry. Members comprise 85 percent of United States production of industrial valves and actuators used in oil and gas, power, chemical, construction, water, and process industries.
Standardization Activities	Although not a standards making body, VMA is a strong advocate of United States and international standards. Members of the industry are active in a variety of standards activities. VMA is represented on ASME B-16, ISO/TC 153, AWWA C504, and develops standards policy through its Technical Committee and Product Committees.
Keywords	valves; actuators; flow control; industrial equipment;

#### VARIABLE RESISTIVE COMPONENTS INSTITUTE

Stan J. Kukawka, Executive Director

P.O. Box 1070  
Vista, California 92083  
(619) 727-3011

FAX: (619) 727-6555

Founded: 1960

Standards Staff: 1

Type of  
Organization

Trade Association  
Standards Developer

Standards  
Development

Standards developer since 1960.  
35 member companies participating in standards activities.  
5 active standards.  
Draft standards available to VRCI members and applicable organizations.

Standards  
Designation

VRCI and ANSI prefixes.

Certification

No certification, qualification, or accreditation programs.

Scope

An international trade association representing manufacturers and users of variable resistive devices such as precision potentiometers, trimmers, and panel potentiometers.

Standardization  
Activities

Has made significant contributions to the field of standardization and the improvement of quality of variable voltage or resistive devices used in consumer, industrial, and military type applications. Standards cover wirewound and non-wirewound precision, trimming, and industrial potentiometers, potentiometer mounted switches, and surface mount trimming potentiometers.

**Availability** Distributed directly and through ANSI.

**Keywords** potentiometers; resistive devices; electronic components; trimmers;

**VINYL SIDING INSTITUTE**  
and  
**VINYL WINDOW AND DOOR INSTITUTE**  
See **SOCIETY OF THE PLASTICS INDUSTRY**

**VMEBUS INTERNATIONAL TRADE ASSOCIATION**

Ray Alderman, Executive Director

7825 E. Gelding Drive  
Suite 104  
Scottsdale, Arizona 85260-3415  
(602) 951-8866 FAX: (602) 951-0720

Founded: 1984 Standards Staff: 6

**Type of Organization** Trade Association  
Standards Developer

**Scope** Represents users and producers of Versatile Model Europe bus (VMEbus) computer systems.

**Standards Activities** Develops standards in VMEbus and other related open bus technologies through the VITA Standards Organization (VSO). Accredited by ANSI as a Canvass Ballot Sponsor since June 1993.

**Availability** Distributed directly.

**Keywords** VME; VME64; VMEbus; backplane; bus; microprocessor;

**WATER POLLUTION CONTROL FEDERATION**

Quincalee Brown, Ph.D., CAE, Director

601 Wythe Street  
Alexandria, Virginia 22314-1994  
(703) 684-2400 FAX: (703) 684-2492

Founded: 1928 Standards Staff: 2

**Type of Organization** Technical Professional Society  
Works through other organizations to develop standards

<b>Scope</b>	Federation of 74 state, regional, and foreign associations and technical societies. Advances fundamental and practical knowledge of the water environment with emphasis on the technology, design, construction, operation, and management of water quality control systems and facilities. Seeks to disseminate technical knowledge and information through publications and conferences; promote good public information and sound regulations aimed toward proper water quality improvements; and improve the status of those working in this field.
<b>Standardization Activities</b>	In cooperation with the American Public Health Association and the American Water Works Association, produces Standard Methods for the Examination of Water and Wastewater. Develops and publishes education, training, design and operation and maintenance materials on: wastewater collection; wastewater treatment; sampling and testing; safety; hazardous waste; microbiology; disinfection; wetlands; air pollution; industrial wastes; financing; solids processing and handling regulations.
<b>Keywords</b>	environment; wastewater; pollution; water pollution; industrial wastes; hazardous wastes; air pollution; bisolid; safety;

#### WATER QUALITY ASSOCIATION

<b>Type of Organization</b>	Joseph F. Harrison, P.E., Technical Director  4151 Naperville Road Lisle, Illinois 60532 (708) 505-0160  Founded: 1948	FAX: (708) 505-9637  Standards Staff: 4
<b>Standards Designation</b>	S-100 S-300. S-200 S-400.	
<b>Certification</b>	Certifies water softeners, filters, reverse osmosis systems, and water distillers complying with Association standards. Sponsors voluntary certification programs for water treatment specialists and water treatment equipment installers.	
<b>Scope</b>	A trade association of water conditioning equipment manufacturers and suppliers to the water conditioning industry. Conducts a national public relations program, and serves as the industry's liaison with the public, private, and government sectors. Fosters the further development of equipment, products, and services in the industry.	

**Standardization  
Activities**

Developed two equipment standards, S-100 for Household, Commercial and Portable Exchange Water Softeners, S-200 for Household and Commercial Water Filters, S-300 for Reverse Osmosis Drinking Water Systems and S-400 for Distillation Drinking Water Systems. A testing program for all standards is conducted by an independent testing laboratory, and certification is made through the association following laboratory validation. These standards have national application; and the voluntary testing program is open to manufacturers of water softeners water filters, reverse osmosis systems and distillation systems. In addition to intra-industry promotion of the use of the equipment validation program, the association uses its public relations channels to inform consumers of the integrity of certified equipment. S-100, S-200, S-300 and S-400 have been developed through consultation with the National Institute of Standards and Technology, U.S. Department of Commerce; Federal Housing Administration; and other government agencies, as well as quasi-public and private organizations concerned with equipment standards. The association is currently harmonizing the standards for drinking water treatment units with the NSF international.

**Availability**

Distributed directly.

**Formerly**

Water Conditioning Foundation (1974)

**Keywords**

consumer products; drinking water; industrial equipment; water quality; water treatment; environment; plumbing; public health; sanitation;

**WATER SYSTEMS COUNCIL**

Charles G. Stolberg, Executive Director

800 Roosevelt Road  
Building C, Suite 20  
Glen Ellyn, Illinois 60137  
(708) 545-9415

FAX: (708) 790-3095

Founded: 1932

Standards Staff: 1

**Type of  
Organization**

Technical Society  
Standards Developer

Standards Development	6 active standards.
Scope	Represents and serves leading manufacturers of domestic and farm water systems equipment.
Standardization Activities	Develops Testing and Rating Standards, which are established in the public interest and are designed to supply the purchaser and user of automatic, electric water systems with accurate performance data and to assist in the determination of proper application and selection of this equipment. The standards cover shallow well water system pumps, deep well water system pumps, deep well submersible pump motor standards, and hydropneumatic tank volume standards.
Availability	Distributed directly.
Formerly	National Association of Domestic and Farm Pump Manufacturers
Keywords	pumps; motors; water systems; wells; building;

#### WEST COAST LUMBER INSPECTION BUREAU

Bradley E. Shelley, Executive Vice President

P.O. Box 23145

Portland, Oregon 97281

(503) 639-0651

FAX: (503) 684-8928

Founded: 1911

Standards Staff: 2

#### Type of Organization

Trade Association  
Standards Developer

#### Standards Development

Develops lumber grading rules.  
Drafts not available for review.

#### Standards Designation

West Coast Lumber - Standard Grading Rules, No. 17.

#### Certification

Provides official grade stamps to mark lumber conforming to West Coast Grading Rules.

#### Scope

An industry owned, nonprofit corporation that provides lumber quality control services at its approximate cost. Serves members throughout western United States, with additional membership in several other states. Services available to any producer, user, distributor, or dealer handling West Coast lumber products. Maintains uniform standards of lumber grading and manufacture, promotes the use of grade stamped lumber as an assurance to the



buyer, seller, and consumer that the interests of each are fully protected, and assists in the efficient use of West Coast lumber products.

**Standardization  
Activities**

One of the three major lumber grading rules writing agencies in the United States, in addition to the Western Wood Products Association and Southern Pine Inspection Bureau. Responsible for the principal part of all the quality control programs for softwood lumber production in the United States. Supervises or grades three and one-half to five billion feet of lumber per year.

Bureau activities include the publication, and distribution of West Coast Grading Rules, supervision of the grading manufacturing practices of subscriber plants; grade stamping of West Coast lumber with official Bureau stamps; certificate inspection of lumber shipments; reinspection of lumber in dispute at destination; and assistance to specification agencies, buyers and consumers of West Coast products. Participates in ASTM, ASCE, and Department of Commerce Voluntary Product Standard Programs.

**Availability**

Distributed directly.

**Formerly**

West Coast Lumbermen's Association

**Keywords**

wood products; grading rules; inspection; lumber; building;

**WESTERN WOOD PRODUCTS ASSOCIATION**

Robert H. Hunt, President

Yeon Building  
522 SW Fifth Avenue  
Portland, Oregon 97204-2122  
(503) 224-3930

FAX: (503) 224-3934

Founded: 1964  
(predecessors early 1900)

Standards Staff: 3

**Type of  
Organization**

Trade Association  
Standards Developer

**Standards  
Development**

Standards developer since early 1900's.  
Prepared under the umbrella of the National Institute of Standards and Technology Voluntary Product Standard PS 20-94 and the American Lumber Standards Committee.

<b>Standards Designation</b>	Western Lumber Grading Rules. Machine Stress-Rated Western Lumber C/QC Procedures 102.86. Glued Products C/QC Procedures 101.86. North American Export Standard for MSR Lumber.
<b>Government Adoption</b>	All building code writing and purchasing agencies (federal and state and local) accept lumber graded pursuant to WWPA grading rules. Additionally, WWPA rules are accepted world wide.
<b>Certification</b>	WWPA and its Western Lumber Grading Rules are approved by the Board of Review of the American Lumber Standard Committee. WWPA provides member companies with grade stamps to mark lumber graded under Association rules and supervision. A symbol indicates that the piece is graded under WWPA rules and the provisions of NIST Voluntary Products Standard PS 20-94.
<b>Scope</b>	WWPA consists of member companies throughout the 12 contiguous western states. WWPA maintains a lumber grade inspection bureau to assure grading standards on a uniform basis. WWPA provides promotion, advertising, technical, export and statistical services; and promotes forest conservation.
<b>Standardization Activities</b>	Writes rules for Western lumber that conform to the National Institute of Standards and Technology Voluntary Product Standard PS 20-94, American Softwood Lumber Standard. Also writes rules for machine stress-rated lumber and glued lumber products in accordance with PS 20-94. Supervises member company grading procedures and practices through periodic sampling inspections of company graded lumber. Actively involved in writing and reviewing standards approved by the American Society for Testing and Materials (ASTM) and CEN Standards (European Community for Standardization).
<b>Availability</b>	Sold directly.
<b>Keywords</b>	wood products; lumber; grading rules; inspection; building; machine stress-rated; finger joint;

#### WIRE REINFORCEMENT INSTITUTE

Roy H. Reiterman, P.E., Technical Director

203 Loudoun Street, SW

Leesburg, Virginia 22075-2718

(703) 779-2339

FAX: (703) 779-2340

Founded: 1930

<b>Type of Organization</b>	Trade Association Works through other organizations to develop standards
<b>Representation</b>	ASTM A-1, C-13; and ACI.
<b>Scope</b>	An association of producers of welded wire reinforcement, wire reinforcement and wire products for the reinforcement of concrete and other construction materials. Purpose is to advance industry through scientific research, educational activities, engineering, product development, and general construction technology.
<b>Standardization Activities</b>	Engineering Practices Committee works through ASTM and ACI to develop specifications for wire and welded wire reinforcement. Makes recommendations to ASTM Committee A-1 on steel and C-13 on concrete pipe.
<b>Keywords</b>	reinforcement; concrete; wire fabric; materials; construction;

#### WOOD MACHINERY MANUFACTURERS OF AMERICA

Kenneth R. Hutton, Executive Vice President

1900 Arch Street  
Philadelphia, Pennsylvania 19103-1498  
(215) 564-3484 FAX: (215) 963-9785  
e-mail: assnhgt@netaxs.comm (type WMMA)

Founded: 1899 Standards Staff: 1

<b>Type of Organization</b>	Trade Association Standards Developer
<b>Secretariats</b>	American National Standards Committee O1
<b>Scope</b>	Composed of over 140 manufacturers of machinery and equipment used in the production of lumber, veneer, millwork, and other wood products, but not including hand portable tools and equipment. Serves the industry by providing a forum to address technical and business issues and improve markets for United States made machinery.
<b>Standardization Activities</b>	Develops standards that enhance the safety and operability of woodworking machinery. Current publications include the widely recognized Noise Test Code and the Cutting Tool Safety Guidelines. Resources have been applied through ANSI to develop and maintain the voluntary consensus standard Safety Requirements for Woodworking Machinery, ANSI O1.1, which defines standards for safe installation, operation, and maintenance of woodworking machinery and accessory equipment. Member of Capital Goods Standards Coalition involving U.S. companies in development of international safety standards for machinery.

Availability	Distributed directly.
Formerly	Woodworking Machinery Manufacturers of America
Keywords	woodworking machinery; noise; safety;

#### WOOD MOULDING AND MILLWORK PRODUCERS ASSOCIATION

Bob Weiglein, Executive Vice President

P.O. Box 25278  
 1730 Southwest Skyline  
 Portland, Oregon 97225  
 (503) 292-9288 FAX: (503) 292-3490

Founded: 1963 Standards Staff: 2

Type of Organization	Trade Association Standards Developer
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Standards Development	7 active standards. None processed through ANSI.
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Standards Designation	WM prefix.
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Scope	Composed of manufacturers of wood moulding and millwork. Provides promotion, standardization, and marketing information services.
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Standardization Activities	Standards are initiated through a standing committee administered by the association staff. Available standards include the WM/Series Moulding Patterns and catalog of accurate, full scale renderings of the most popular wood moulding profiles used nationwide. This may be used as a standard basis for all United States moulding producers. Included in the current catalog are grading rules for standard mouldings and finger joint and priming standards.
----------------------------	--

Other available standards include: Industry Standard WM 1-79, Wood Interior Door Jambs and Frames; WM 2-82, Vinyl Wrapped Interior Moulding and Millwork Products standard; WM 3-79, Exterior Wood Door Frames; WM 4-85, Wood Moulding Requirements; WM 5-81, Standard Certified Non-Structural Laminated or Finger Jointed Wood; and WM 8-89, Industry Standard 20-Minute Fire-Rated Wood Door Frames.

**Availability** Distributed directly and through members.

**Keywords** wood products; moulding; millwork; grading rules; lumber; building;

#### WOODWORK INSTITUTE OF CALIFORNIA

Stanley R. Gustafson, C.E.O., Secretary

P.O. Box 980247  
3164 Industrial Blvd.  
West Sacramento, California 95798-0247  
(916) 372-9943 FAX: (916) 372-9950

Founded: 1951 Standards Staff: 6

**Type of Organization** Trade Association  
Standards Developer

**Certification** The W.I.C. has established a Certification Licensing Procedure available to firms in California, Nevada and Oregon.

**Scope** A regional trade association in California, Nevada and Oregon of independent and competing producers of millwork and allied products, whose purpose is the development and dissemination of information relative to uses, advantages, and utility of wood products.

**Standardization Activities** Standards have been developed for materials and methods of fabrication for all types of architectural woodwork in California by the Woodwork Institute since 1951. The standards are developed by a Technical Committee and approved by the Board of Directors. Standards designation is the Manual of Millwork, M/M. Several governmental agencies have adopted the Woodwork Institute's Standards.

**Availability** Distributed directly.

**Keywords** wood products; millwork; building; architectural; certified compliance;





## 2.2 OTHER ORGANIZATIONS DEVELOPING INFORMAL STANDARDS

Until recently it was fairly easy to identify private-sector standards developers. Their formal, *de jure* standards are developed using processes which are open, and which apply the principles of due process to achieve decisions through consensus. Procedures for assuring openness enable various interests to not only identify organizations which might be developing standards that could affect them, but to communicate with the standards developers and to receive notices of meetings, agendas, and draft standards. In recent years, however, many new nongovernment standards developers have emerged which do not follow traditional standards developing procedures. For whatever reasons, often expediency, these standards developers ignore or short cut the traditional procedures. The lack of openness makes it very difficult to identify the organizations which are developing standards in this manner, and, even when an *ad hoc* group or consortium is identified, it is difficult to communicate with an organization that has no formal structure or fixed secretariat.

A standard is not an end in itself -- it is an intermediary and a medium for communications. Organizations want to buy products and services, not standards. User demands drive markets and the markets should drive the standards, but standards have not kept pace with the markets in telecommunications, information technology, and other rapidly developing fields. Technologies with market lives measured in months cannot wait years for formal standards to emerge from traditional processes. The traditional developers recognize the need to provide more timely standards, but must balance that need with their obligation to maintain the right to due process by all materially affected interests. Consortia and *ad hoc* groups are more focused on achieving near-term results, and their standards are developed without heavy emphasis on formal due process procedures. In addition, the members of consortia and *ad hoc* groups are relatively homogeneous and single-minded in their goals.

Informal standards can be organized within two general categories -- proprietary and consortia -- and four classifications:

### PROPRIETARY

When the products or services of one company become widely accepted as "the standard" within a market the result is a proprietary informal standard. There are two ways that such standards emerge:

1. **Proprietary De Facto Standards.** A company strategically positions its products to expand market share and collect royalties by licensing intellectual property rights. Examples: Adobe Postscript, IBM PC Compatible, and Microsoft Windows.

2. **End-Result De Facto.** Market forces designate one company's product as the standard from among equally effective competitors. Example: VHS video recording.

## CONSORTIA

This classification includes standards developed by *ad hoc* groups of suppliers or users, research and development consortia, and patent licensees. These groups work together to develop informal standards or to select those standards that will be given preference within a particular sector or market. Motivations of the sponsors differentiate the two classes of consortia standards:

3. *Strategic De Facto*. Suppliers, and occasionally users, attempt to establish sufficient critical mass to define the standard or standards in a particular field. Examples include Dolby, Notes Consortium, Bellcore, and the Electronic Commerce Acquisition Team.

4. *Ad Hoc Variety Reduction*. Traditionally the application of industrial standardization principles has focused on reducing the number of types, sizes, and kinds of parts, materials, and processes to realize cost savings and improve productivity. In some sectors users complain of an overabundance of standards because standards developers are not sufficiently selective, but publish standards for nearly every product offered in the market. To fully realize the potential of standardization through economies of scale, industry consortia have formed to select and harmonize existing standards for preferred use within their industries. The United States Council for Automotive Research (USCAR) is a major consortium with a Strategic Standardization Board working in this way. Other user consortia recognize that many common practices exist within their sectors which could benefit from industry-wide standardization. Most of these practices are documented as internal company standards. Rather than processing these internal standards through the traditional formal standards development process, they prefer to prepare harmonized standards which are intermediate between company standards and formal consensus standards. The Process Industry Practices (PIP) initiative exemplifies this approach.

The developers of informal standards start out with simplified fast-track procedures, but some find that the traditional due process procedures are necessary to accommodate the needs of their members. Others, upon developing a standard, have no mechanism for maintaining it. Some consortia recognize that acceptance of their proposals could be more widespread if their informal standards received a technical review by experts and assurance that the consortium's standards would be integrated into the existing body of formal standards. For these and other reasons, an increasing number of consortia are acting more like traditional standards developers, while others are affiliating with developers of formal standards. VMEbus and the Consortium for Advanced Manufacturing International are ANSI-accredited. The Document Management Alliance is now a task force within the Association for Information and Image Management. USCAR has a working relationship with the SAE. And as consortia mature, many evolve into full service trade associations -- the same path that some well known standards developers took in years past.

Initiatives to promote the acceptance of proprietary and consortia-developed informal standards are increasing general awareness of the role of standards. These initiatives are often headlined in financial and trade journals. While traditional standards developers complain that groups developing informal standards are interlopers, many traditional developers are reengineering their procedures to be more responsive to special interests. There are no indications, however, that the activities of non-traditional standards developers will decrease. Marketing experts have adopted standards development as one more essential stratagem they can use to attain their objectives.

Numerous developers of informal standards have been identified while compiling this directory. Very few, however, have permanent secretariats and fixed addresses, which made communication difficult. Even when they could be contacted, some were reluctant to provide any substantive information about their standardization activities. More than 80 additional developers of informal standards are listed here. Some include telephone contacts. Users of this directory are encouraged to provide information on these or additional groups to NIST using channels described in Section 1.6 of this directory.

# Additional Developers of Informal Standards

Full Name	Short Name or Acronym
ACTS MISA Consortium	ACTS MISA
Association for Font Information Interchange	AFII
Association for Retail Technology Standards	ARTS
Audio Messaging Interfaces Society	AMIS
Banking Systems Vendor Council	BSVC
Capital Goods Standards Coalition	CGSC
CDPD Forum	
COBOL Foundation	
Computer Industry Quality Consortium	CIQC
Coalition of Networked Information	CNI
COde Division Testbed	CODIT
CPI-C Implementers Workshop	CIW
Cross Industry Working Group	XIWT
Customer Support Consortium	CSC
Data Management Interfaces Group	DMIG
Desktop Alliance	DA
Desktop Management Interface	DMI
Desktop Management Task Force	DMTF
Digital Audio Video International Committee	DAVIC
Digital Media Distribution Technical Committee	DMD-TC
Distributed Support Information Systems	DSIS
Electronic Commerce Acquisition Team (703)305-6514	ECAT
Electronic Messaging Association (703)524-5550	EMA
Embedded Systems Software Environment	ESSE
Fiber Channel Association	FCA
Fiber Channel Systems Initiative	FCSI



Financial Services Technology Consortium	FSTC
Food Distribution System Association Dev. Comm.	
Frame Relay Forum (415) 578-6980	FRF
Future Consortium	
Geographic Information System Association	GISA
Global Messaging Group	GMS
Graphics Performance Characterization Committee	GPC
Industry Standards Association	ISA
Infrared Data Association	IrDA
INSTAC - S/W CALS Standardization	INSTAC
Institute for Information Storage Technology	IIST
Intelligent TV Forum	ITVF
Interactive CD-I Author Association	ICDIA Association
International Disk Drive Equipment and Materials Association (408)720-9380	IDEMA
International Association of Open System Professionals (408)986-8840	Uni Forum
International Electronic Packaging Society (708)260-1044	IEPS
International Society of Hybrid Microelectronics (703)758-1066	ISHM
Management Integration Consortium	MIC
Multimedia CD Consortium	Multimedia CDC
National Industrial Information Infrastructure Protocols	NIIIP
National Security Telecommunications Advisory Council	NSTAC
Notes Consortium	
Object Definitions Alliance	ODA
Object Management Group (508)820-4300	OMG
OM-1 Consortium	OM-1
Open Firmware Working Group	OFWG
Open Geographic Information Systems Consortium	OGISC
Open GL Architecture Review Board	Open GL ARB

The Open Group (617) 621-8700	Successor to:	OSF X/Open
Open PC Alliance		
Open Software Foundation (617) 621-8700		OSF
Optical Forming Industry Association		OFIA
Optical Storage Trade Association		OSTA
Performance Management Working Group		PMWG
Personal Digital Assistants Industry Association		PDAIA
Petrotechnical Open Software Corporation (713) 784-1880		POSC
Quarter Inch Cartridge Drive Standards, Inc. (805) 963-3853		QIC
Redundant Arrays of Independent Disks Advisory Board (507) 931-0967		RAID
Reuse Library Interoperability Group		RLIG
Sales Automation Association		SAA
Security and Management Services for Open Networks		SAMSON
Serial Storage Architecture Industry Association		SSA IA
Service Providers Integrated Requirements for Information Technology		SPIRIT
Shared Multimegabit Data Service Interest Group (415) 962-2590		SDMS
Small Computer System Integration Association (507) 931-0967		SCSI Association
SmartCard Forum (813) 286-2339		
Software Quality Association		SQA
Stuart Retail Bank Client Server Consortium		SRBCSC
Symbologic Customer Support Consortium		SCSC
Systems Performance Evaluation Cooperative Forum		SPEC
Telecommunications Information Networking Architecture Consortium		TINA
Text Software Initiative		TSI
Transaction Processing Council		TPC
Unixware Technology Group		UTG

Video Electronics Standards Association (408) 435-0333	VESA
VMRL+ Alliance	
X-Consortium - Industry Carriers Compatibility Forum	X-Consortium



### 3. FEDERAL GOVERNMENT

#### 3.1 FEDERAL VOLUNTARY STANDARDS POLICY (OMB CIRCULAR A-119)

On October 20, 1993, the Office of Management and Budget (OMB) revised and re-issued Circular A-119, entitled "Federal Participation in the Development and Use of Voluntary Standards."<sup>1</sup> This establishes a policy for all federal executive branch agencies concerning their use of voluntary standards and the participation of federal employees in their development. It sets forth "the policy of the federal government in its procurement and regulatory activities to rely on voluntary standards, both domestic and international, whenever feasible and consistent with law and regulation pursuant to law." Voluntary standards should be adopted and used by federal agencies "in the interests of greater economy and efficiency" and should be given preference over non-mandatory government standards unless use of such voluntary standards would adversely affect performance or cost, reduce competition, or have other significant disadvantages.

Participation by federal agency employees in voluntary standards activities is encouraged when it is "in the public interest and is compatible with agencies missions, authorities, priorities, and budget resources." Such participation should be aimed at contributing to the development of voluntary standards that will eliminate the need to develop and maintain separate government standards.

The Circular requires the coordination of agency participation so that (1) the most effective use is made of agency resources and representatives, and (2) the views expressed by those representatives are in the public interest, and, at minimum, do not conflict with the interests and established views of the agencies. Agencies must establish procedures to ensure that their representatives who participate in voluntary standards activity "will, to the extent possible, ascertain the views of the agency on matters of paramount interest, and will, as a minimum, express views that are not inconsistent or in conflict with established agency views."

The Circular also requires that agencies responsible for developing Government standards review their existing standards at least every five years and cancel those for which adequate and appropriate voluntary standards can be substituted.

The revised Circular provides a policy statement with strengthened administrative guidance to federal agencies on using domestic and international voluntary standards for procurement and regulatory purposes, on further improving participation with private sector organizations to develop such standards and coordinating Executive Branch responsibilities for participation in the development of voluntary standards. Emphasis on improving agency leadership on standards policy issues with agency-wide responsibilities for implementing the Circular are provided with the designation of a senior level agency official to be the "Standards Executive." Provisions for improved agency accountability and coordination, recognition of trade policy objectives, along with WTO Standards Code obligations in the treatment of international standards by federal agencies are provided. The revision also extends coverage to certain standards related national goals, such as metrication, environmental concerns and energy efficiency. Significant changes in agency administration, adoption, utilization and reporting of standards related activities are required to implement the revised Circular. Responsibilities of the Secretary of Commerce are increased in several areas for Executive Branch implementation of the Circular.

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<sup>1</sup> Previous version was dated October 26, 1982.



### 3.2 ROLE OF INTERAGENCY COMMITTEE ON STANDARDS POLICY

The Interagency Committee on Standards Policy (ICSP) was established in 1968 to encourage coordination and liaison among federal agencies on matters relating to standards. In 1982, the Secretary of Commerce reconstituted the ICSP to provide the "interagency consultative mechanism to advise the Secretary and agency heads in implementing the policy" required by OMB Circular A-119, "Federal Participation in the Development and Use of Voluntary Standards." In August 1994, the Secretary of Commerce approved a new Charter for the ICSP. The new Charter reflected the changes in the revised Circular.

The ICSP is currently composed of representatives of the 14 federal cabinet departments, 11 independent federal agencies, three offices in the Executive Office of the President and one legislative branch agency. The National Institute of Standards and Technology (NIST) provides the Chairman and the Secretariat for the ICSP.

Cabinet departments represented on the ICSP include the Departments of: Agriculture; Commerce; Defense; Health and Human Services; Housing and Urban Development; Education; Energy; Interior; Justice; Labor; State; Transportation; Treasury; and Veterans Affairs.

Independent agencies include the: Consumer Product Safety Commission; Environmental Protection Agency; Federal Communications Commission; Federal Emergency Management Agency; Federal Trade Commission; General Services Administration; International Trade Commission; National Aeronautics and Space Administration; National Archives & Records Administration; National Science Foundation; Nuclear Regulatory Commission; Postal Service; Small Business Administration; and the U.S. Agency for International Development.

Those from the Executive Office of the President include: the Office of Management and Budget; the Office of the U.S. Trade Representative; and the Office of Consumer Affairs. The U.S. Government Printing Office is represented from the Legislative Branch.

### 3.3 FEDERAL GOVERNMENT ORGANIZATIONS

This section describes more than 90 standards related programs of federal departments, agencies, and other organizational elements, most of which are standards developers. There are 78 entries describing these standardization activities. The entries for some agencies (e.g., NIST, FDA) describe a number of different standards related programs, while others (e.g., Department of Agriculture) prefer a separate entry for each program. It should be noted that some federal standards are voluntary, though the majority are mandatory by reason of being referenced in legislation or regulations, or are invoked in contracts as a condition of sale to Government agencies. Many nongovernment standards are mandated in the same way.

Government organizations were asked to cite the means by which their standards are implemented or promulgated. This is usually accomplished by incorporating the standards in applicable Parts of the Code of Federal Regulations (CFR). How the agency usually applies standards is summarized in the paragraph "Application." Authority for an agency's standardization activity is also included, generally a citation of the United States Code (U.S.C.), a Public Law (P.L.), or a Part of the CFR. Most organizations have indicated the extent to which they adopt nongovernment standards and participate in government and private sector standards committees.

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DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE

Administrator  
Room 3071 South Building  
P.O. Box 96456  
Washington, DC 20090-6456  
(202) 720-5115 FAX: (202) 720-8477

Authority

Agricultural Marketing Service (AMS) carries out standardization activities under the Agricultural Marketing Act of 1946, the Agricultural Marketing Agreement Act of 1937, the U.S. Cotton Standards Act of 1923, the Tobacco Inspection Act of 1935, the Federal Seed Act of 1939, and the Egg Products Inspection Act (EPIA).

Implementation

U.S. grade standards for food and farm products are developed by AMS and available from the agency in hard copy or electronic format. Standards are currently in place for cotton, wool, and mohair; tobacco, live animals, turpentine, fresh fruits and vegetables, processed fruits and vegetables, specialty crops, dairy products, meat, poultry, and poultry products.

The purpose of the standards is to identify the degrees of quality in food and farm products and thereby aid in marketing by establishing the usability or value of these products.

The standards, in most cases, are for voluntary use by industry. There are 30 color grade standards and a leaf grade standards for American Upland cotton, and 7 grade standards for American Pima cotton; 14 standards for dairy products; over 150 standards for fresh fruits, vegetables, nuts, and specialty products; over 150 standards for processed fruits and vegetables, honey, and miscellaneous processed products; 11 standards for meat; 15 standards for live animals and 4 standards for wool and mohair; 5 standards for shell eggs; 9 standards for poultry and rabbits; and 16 standards for tobacco and naval stores. Within each standard, there are a number of grades of quality for the product.

AMS sets standards for agricultural and vegetable seed purity, germination, and variety certification.

Under the EPIA, AMS specifies the conditions under which egg products and "restricted eggs" are handled.

Application

Grading, inspection, or classing services, to certify the quality of products according to the U.S. grade standards, are provided by Department of Agriculture (USDA) to producers, packers, wholesalers or others, on request, and usually for a fee to cover the cost of the service.

Businesses that handle shell eggs must register with USDA. They must also destroy eggs that are in any way unsuitable for human consumption. Dirty eggs and eggs with cracked shells but with the contents not leaking, must be shipped only to officially inspected egg products processing plants for proper segregation and processing.

AMS has cooperative agreements with each of the states to regulate interstate commerce for agricultural and vegetable seeds. Under these agreements, the States refer apparent violations of the Federal Seed Act interstate provisions to AMS for verification and appropriate action. In addition, AMS cooperates with states that conduct a voluntary seed certification program.

Qualification,  
Certification,  
or Calibration

Services to certify the quality of products according to the U.S. grade standards are provided for a fee to cover the cost of the service. The Tobacco Inspection Act requires mandatory inspection of tobacco sold at auction in designated auction markets based on official grades, after a referendum in which two-thirds of the growers supplying an auction market vote approval. Tobacco may also be inspected on a voluntary, fee-for-service basis.

Committee  
Activity

AMS officials participate in committees of trade, technical, and academic organizations -- both national and international -- related to AMS commodities and functions as appropriate.

Standardization  
Activities

Standardization specialists in each commodity area develop new U.S. grade standards and revise current standards as necessary to promote orderly marketing. Market surveys and other studies are conducted, and proposed standards and revisions are published for public comment before implementation. Specialists also manage the development and coordination of federal food specifications.

Availability

Information on the AMS activities described here is available from the AMS, Information Staff, P.O. Box 96456, Room 3510-S, Washington, DC 20090-6456.

Keywords

food; farm products; agriculture; grading; seed testing; cotton classing; U.S. grade standards; egg products inspection;

DEPARTMENT OF AGRICULTURE

FOOD SAFETY AND INSPECTION SERVICE

Office of the Administrator  
332-E Administration Building  
Washington, DC 20250  
(202) 447-9113

Authority

- (1) 21 U.S.C. 601-695, March 4, 1907, the Federal Meat Inspection Act, as amended in 1967, to authorize the examination of animals and meat products used in interstate or foreign commerce, and inspection of slaughter and packing establishments.
- (2) 21 U.S.C. 451-469, August 28, 1957, the Poultry Products Inspection Act, as amended in 1968, to provide for the compulsory inspection of poultry and poultry products at slaughter and processing plants.
- (3) 7 U.S.C. 1901-1906, the Humane Slaughter Act, to require humane methods of slaughter in federally inspected plants.

Implementation

9 CFR, III-A and C, Parts 301-335 and 381, Mandatory Meat Inspection and Mandatory Poultry Products Inspection.

Application

Mandatory continuous on-site inspection of domestic meat and poultry. Periodic reviews of foreign country inspection systems eligible to export meat and poultry to the United States.

Qualification,  
Certification,  
or Calibration

Standards have been developed to cover the ingredients, methods of processing, and labeling of meat and poultry products; the materials and design of plant facilities and equipment; inspection methods; and chemical compounds permitted in the formulation, packaging or processing of meat and poultry products.

In FY 1988, 154 570 labels were approved; 3783 plant blueprints were reviewed; 3861 equipment drawings were reviewed; 11 051 packaging materials and compounds were reviewed; and the inspection systems of 29 countries that export products to the United States were reviewed.

Committee  
Activity

Standards are developed by appropriate staffs within the program in consultation with the National Meat and Poultry Inspection Advisory Committee.

Standardization  
Activities

The Food Safety and Inspection Service (FSIS), Department of Agriculture (USDA), administers a comprehensive inspection system to ensure that meat and poultry is safe,

wholesome, and accurately labeled. Inspection begins with review of a slaughtering or processing plant's plans for facilities, equipment, and procedures to assure that the plant will have a safe and sanitary operation. Animals are inspected both before and after slaughter. Veterinary supervisors monitor the procedures and work with the inspectors to assure uniformity in the inspection process and to provide expertise in detecting animal diseases. Inspection also includes examination for drug and chemical residues, and inspectors regularly take tissue samples from slaughtered animals and send them to FSIS laboratories. FSIS reviews the procedures, recipes, and labels used to manufacture processed meat and poultry products to assure they will be safe to eat and accurately labeled.

More than 7600 inspectors and veterinarians oversee inspection in 6910 plants nationwide. Scientific testing to support the inspection program is carried out in three field laboratories, augmented by certified state and private laboratories. FSIS compliance officers make over 56 000 reviews annually of approximately 10 000 meat and poultry product handlers. FSIS regularly reviews the inspection systems operated by foreign countries to ensure they enforce requirements at least equal to those of the U.S. system. Imported products are re-inspected on a sample basis at the port-of entry.

**Availability**

Publications sold by Government Printing Office

**Keywords**

inspection; meat; label; review; food; poultry; import;

**DEPARTMENT OF AGRICULTURE**

**FOREIGN AGRICULTURAL SERVICE**

Office of the Assistant Administrator  
International Trade Policy  
14th and Independence Avenue, SW  
Washington, DC 20250  
(202) 447-6887

**Authority**

19 U.S.C. 2542 Trade Agreements Act of 1979-Title IV-Technical Barriers to Trade (Standards) Subtitle B-Functions of Federal Agencies, Sec. 412. Establishment and Operation of Technical Offices.



## Implementation

7 CFR, Part 2 & E.O. 1218, Sec. 1-103. Final rule published in the Federal Register Vol. 45, No. 242, December 15, 1980-page 82153.

## Committee Activity

The Foreign Agricultural Service (FAS), Department of Agriculture (USDA), Technical Office participates in two intra-agricultural committees, the National Agricultural Pesticide Impact Assessment Program (NAPIAP), which is a policy committee, and Technical Advisory Group (TAG), which is an advisory committee to NAPIAP. In addition, the Technical Office is represented on the inter- governmental agency Trade Policy Staff Committee (TPSC) - Subcommittee on Standards. The Technical Office is also involved with two nongovernmental committees, the National Agricultural Chemicals Association (NACA) - International Committee and the Association of Official Analytical Chemists (AOAC) committee on laboratory accreditation.

## Standardization Activities

Participated in the development of the World Trade Organization (WTO) Agreement on Technical Barriers to Trade (Standards Code) and currently participates in twice-yearly Standards Code meetings in Geneva. Receives, through the WTO Secretariat and U.S. diplomatic posts in foreign capitals, notifications of proposed foreign mandatory standards and their requirements concerning agricultural products. Publishes proposed standards in Export Briefs (a weekly trade paper published by FAS) and also notifies them in Agnet (a computerized agricultural reporting system of the University of Nebraska). Comments, when appropriate, to other governments, signatories to the Code, on their proposed mandatory standards and related tests or certification systems when their proposals are seen as potential barriers to trade. Assists in representations to foreign governments on standards-related trade policy activities. Provides information to U.S. exporters on existing standards in foreign countries. Provides advice to state and local governments on foreign trade aspects of their activities.

In accordance with provisions of the Trade Agreements Act, 19 committees have been established: ten Agricultural Policy Advisory Committees, and nine Agricultural Technical Advisory Committees for Trade. These committees address trade issues in the areas of cotton, dairy, fruits and vegetables, grain and feed, livestock and products, oilseeds and products, poultry and eggs, sweeteners and tropical products, and tobacco and provide advice to Secretary of Agriculture and U.S. Trade Representative on standards-related trade policy activities of the United States.



Keywords WTO; Standards Code; inquiry point; international trade; business; food; agriculture;

DEPARTMENT OF AGRICULTURE

FOREST SERVICE

P.O. Box 96090,  
Washington, DC 20090  
(703) 453-9400

Implementation The United States Department of Agriculture Forest Service (USDA/FS) prepares standards for internal use; it does not promulgate standards for general use and prefers to reference existing voluntary standards.

Application Application is usually decided by the sponsoring organization. For example, USDA/FS technical input on the strength of wood members was used by ladder manufacturers and was published by the American National Standards Institute and the National Safety Council. OSHA and CPSC adopt all or parts of these standards.

Committee Activity USDA/FS technical experts participate in organizations including: ALSC, ASTM, AASHTO, ANSI, NFPA, HUD (FHA), FmHA, etc. They participate as technical authorities and represent the general interest category rather than producer or user.

Standardization Activities USDA/FS technical experts participate in standards activities as individuals, and occasionally, when required, pay membership dues themselves.

Availability Standards are obtainable through the sponsoring organization (e.g., ASTM, ANSI).

Keywords wood; lumber; pulp; paper; glue; lumber grading; strength of wood; wood preservatives; wood adhesives;

DEPARTMENT OF AGRICULTURE

GRAIN INSPECTION, PACKERS AND STOCKYARDS ADMINISTRATION

Scales and Weighing Branch  
Room 3414, South Agriculture Building  
Washington, DC 20250  
(202) 720-3140 FAX: (202) 690-2173

Authority 7 U.S.C. 181-229, Packers and Stockyards Act; 9 CFR 201.71 and 201.72.

<b>Implementation</b>	Subject livestock dealers, market agencies, stockyards, meat packers and poultry dealers are required by regulations promulgated under the authority of the Packers and Stockyards Act to install, maintain, and use scales which conform to the specifications, tolerances, and other technical requirements set out in NIST Handbook 44.
<b>Application</b>	The Scales and Weighing Branch monitors the selection, installation, maintenance, testing and use of livestock, monorail, and vehicle scales operated by subject firms to assure that such devices conform to NIST Handbook 44 requirements. The Branch also participates in the testing of such devices when newly installed and in connection with training and investigative activities.
<b>Adoption of Nongovernment Standards</b>	None
<b>Qualification Certification or Calibration</b>	Scale testing agencies must be competent and must use properly calibrated test weights in sufficient amounts to properly test scales in accordance with requirements set out in NIST Handbook 44.
<b>Committee Activity</b>	The Grain Inspection, Packers and Stockyards Administration has a participating membership on the Technical Committee on National Type Evaluation, Weighing Industry Sector, of the National Conference on Weights and Measures.
<b>Standardization Activities</b>	The Grain Inspection, Packers and Stockyards Administration is an active participant in the National Training Program of the National Conference on Weights and Measures. In that capacity the agency participates in the development of test procedures and instructional material and furnishes instructors to provide training and certification under the National Training Program.
<b>Availability</b>	NIST Handbook 44 is available from the Government Printing Office. Testing and weighing procedure memorandums are available from the Scales and Weighing Branch.
<b>Keywords</b>	testing; weighing; training; livestock; meat; and poultry;

DEPARTMENT OF AGRICULTURE

GRAIN INSPECTION, PACKERS AND STOCKYARDS  
ADMINISTRATION

Standards and Procedures Branch  
Room 1094-South Building  
Washington, DC 20250  
(202) 720-0219

Authority	Grain inspection standardization activities are carried out under the U.S. Grain Standards Act (USGSA), as amended (P.L. 94-582) and under the Agricultural Marketing Act of 1946 (AMA), as amended.
Implementation	<p>Standards for grains are promulgated under 7 CFR, Part 810. Standards for rice, dry beans, lentils, and dry peas are promulgated under 7 CFR, Part 868.</p> <p>Seventeen U.S. Standards are currently in effect. Use of the standards under the USGSA is mandatory for grain, except to Mexico and Canada. Inspections of grains moving in domestic commerce are voluntary. As provided by the AMA, all inspection services (including export) are voluntary on the part of the trade.</p>
Application	The amended U.S. Grain Standards Act requires: (1) mandatory inspection and weighing services at export ports by federal or delegated state agency personnel; and (2) permissive inspection and weighing services at domestic locations by designated state and private agency personnel. The USGSA also requires DOA to supervise all official inspection and weighing activities and, on a request basis, federal personnel perform inspection of rice and related commodities, and provide nationwide appeal inspection services.
Qualification, Certification, or Calibration	The Standards and Procedures develops and implements grain inspection procedures to ensure uniformity and reliability.
Committee Activity	<p>The Administration participates in the following standards related committees:</p> <ul style="list-style-type: none"><li>-FGIS Advisory Committee</li><li>-Codex Committee on Cereals, Pulses and Legumes</li><li>-International Organization for Standardization</li><li>-National Conference on Weights and Measures</li><li>-NC-151 Committee</li><li>-Rice Millers' Association, Grades Committee</li><li>-American Dry Pea and Lentil Association, Grades Committee</li><li>-National Dry Bean Council, Grades Committee</li></ul>

- National Grain and Feed Dealers Association, Grades Committee
- PNW Grain Standards and Quality Committee
- Grain Elevator and Processing Society, Grades Committee
- National Sunflower Association, Grades Committee
- American Soybean Association, Grades Committee
- American Farm Bureau Federation, Wheat Advisory Committee
- North American Export Grain Association, Inc., Grades Committee

**Standardization  
Activities**

Standardization activities aid orderly marketing of grain, oilseeds, rice, and related commodities. This is accomplished through the development, promulgation, and uniform application of new and revised U.S. standards for grain, oilseeds, rice, dry beans, dry peas, and lentils. Activities include establishment, review, and revision of U.S. Grain Standards to reflect the latest inspection techniques and marketing needs. The agency also evaluates instruments and equipment used in the inspection and weighing process to ensure accuracy. In addition, the agency maintains an international monitoring program which interacts with foreign governments and trade teams to exchange information and to respond to complaints concerning quality and quantity of grain shipments.

**Availability**

Copies of the standards are available through the Animal and Plant Health Inspection Service Printing and Distribution, and Mail Service Section, Unit 1, Suite 1A01, 4700 River Road, Riverdale, MD 20737, telephone (301) 734-5524

**Keywords**

grain inspection; grain standards; grain weighing; commodity inspection; grain marketing; agricultural grading; food; agriculture;

**DEPARTMENT OF AGRICULTURE**

**INFORMATION RESOURCES MANAGEMENT**

Planning, Review, and Standards Division  
Room 447-W Administration Building  
Washington, DC 20250-7600  
(202) 447-6330

**Authority**

PL 89-306 and resulting Federal Information Processing Standards (FIPS PUBS); PL 93-579; PL 96-511; Federal Property and Administrative Services Act of 1949, companion letter of August 14, 1972 from the Administrator of GSA delegating federal telecommunications standards development responsibilities to the Executive Agent of the National Communications System and recently confirmed and amplified by Executive Order 12472.



Implementation	The Office of Information Resources Management (OIRM) is responsible in USDA for standards that cover information processing management and operations for office automation, data processing, data administration and telecommunications environments, related data and security. The specifications are promulgated in the Departmental Directives System, in regulations, and in the Departmental standards and mandatory procedures which must be followed. Voluntary federal and departmental procedures and guidelines are to be used unless an alternative specification is superior.
Application	The specifications are used in acquisition documents to control products and services brought into the Department's inventory. They apply to all information processing units, resources, and activities in USDA.
Adoption	The majority of the Departmental standards are incorporated from those specified in the FIPS PUBS of the National Institute for Standards and Technology (NIST). A few are from other standards bodies such as the American National Standards Institute (ANSI).
Qualification, Certification, or Calibration	Certification of computer software is required pursuant to the requirements of Office of Management and Budget Circular A-71. Certification is required of all sensitive systems. Conformance of products to FIPS PUBS is tested in accordance with tests or procedures developed by NIST or OIRM.
Committee Activity	OIRM participates in standardization activities (committees, user workshops, etc.) of the National Institute for Standards and Technology, the United Nations, and the National Communication System.
Standardization Activities	OIRM coordinates the review of draft FIPS PUBS by Agriculture agencies, consolidates comments and works with NIST to ensure that standards meet the Department's requirements. New specifications are adopted automatically if they are federal standards and after review if they are procedures or guidelines. OIRM lends assistance to the agencies in developing interim standards to address areas where no formal federal standard exists.
Keywords	ADP; telecommunications; automation; data management; data administration; computers; information resources management; data processing; standards;



DEPARTMENT OF AGRICULTURE

RURAL UTILITIES SERVICE

Room 4051 South Building  
Washington, DC 20250  
(202) 720-9540  
WWW: [http://www.rurdev.usda.gov/agency/rus/html/rus\\_home.html](http://www.rurdev.usda.gov/agency/rus/html/rus_home.html)

Authority	7 U.S.C. 901-950b with amendments through October 1988.
Implementation	Through printed bulletins and lists of accepted materials and equipment.
Application	Staff of the Electric and Telecommunications Divisions work with area offices to maintain and make available to borrowers construction, maintenance, and operating standards and lists of materials accepted as meeting those standards. Various standards making organizations.
Adoption of Nongovernment Standards	RUS incorporates new and revised nongovernment standards into RUS's lists.
Qualification, Certification, or Calibration	Borrowers must submit work plans to RUS defining the proposed construction. RUS does not become directly involved in bidding and letting contracts to manufacturers, but borrowers have the responsibility of using those on approved list.
Committee Activity	RUS sits on appropriate committees with IEEE, ANSI, and others with activities which relate directly to electric and telecommunications borrowers.
Standardization Activities	<p>RUS has issued nearly 400 Bulletins detailing requirements for organizing, financing, designing, constructing, and operating electric generation and distribution systems and telephone facilities. Nearly half of these define technical requirements for equipment, materials, design, testing, safety, and maintenance. The remainder include lists of acceptable materials as well as standards for financial and statistical reports, loan agreements, model contracts and related business matters.</p> <p>Standards and specifications of national standardizing organizations are utilized to the maximum practicable extent. Where they are not adequate or where they do not exist, RUS prepares standards and specifications to be used by its borrowers which construct and operate rural electric and telephone systems. Standards and specifications are also prepared where it appears that such specifications and standards will result in reduced costs,</p>

improved materials and equipment, or the more effective use of engineering services. Standards and guides are also prepared which relate to the management and operation of rural electric and telephone systems.

RUS standards are utilized by 2000 rural electric and telephone systems to which loans have been made in 47 states, The Virgin Islands, Guam, Puerto Rico, Saipan, Tinian, and Rota. The standards are also utilized by other organizations in this country and abroad.

<b>Availability</b>	Information on RUS standards and copies of most standards are available upon request to the above address.
<b>Formerly</b>	Rural Electrification Administration
<b>Keywords</b>	electric power; transmission; distribution; generation; energy; electrical equipment; telephone; communications;

#### DEPARTMENT OF COMMERCE

##### BUREAU OF THE CENSUS

Room 3104, FB 3  
Washington, DC 20233  
(301) 763-7575

<b>Committee Activity</b>	The Bureau of the Census, Department of Commerce (DOC), participates in pertinent standards committees of the following: American Agricultural Economics Association; American National Standards Institute; Office of Management and Budget, Statistical Policy Office, Office of Information and Regulatory Affairs; Department of State, Commission on Cartography; Department of Interior, National Mapping Division, Spatial Data Transfer Standard Technical Review, Board on Geographic Names.
<b>Standardization Activities</b>	The Bureau of the Census is active in development of standards and specifications for definition of metropolitan statistical areas, digitizing of geographic information, and statistical economic and geographic definitions.
<b>Keywords</b>	cartography; metropolitan statistical areas; economic statistics; digital cartography; digital geographics; data;

DEPARTMENT OF COMMERCE

FEDERAL COORDINATOR FOR METEOROLOGY

8455 Colesville Road  
Suite 1500  
Silver Spring, Maryland 20910  
(301) 427-2002 FAX: (301) 427-2007  
e-mail: julian\_wright\_at\_ofcm@smtpgate.ssmc.noaa.gov

Authority	<ol style="list-style-type: none"><li>(1) Section 304 of the Department of Commerce (DOC) Appropriation Act of 1963.</li><li>(2) OMB Circular A-62 dated November 13, 1963 which outlines policies and procedures for the coordination of federal meteorological services.</li></ol>
Implementation	Meteorological program standards and guidelines are developed within the federal interdepartmental committee structure for meteorological services and supporting research. The guidelines, standards and plans are approved by the Interdepartmental Committee for Meteorological Services and Supporting Research (ICMSSR) for implementation by agencies.
Application	The plans, standards, and guidelines are implemented through procurement specifications, approved interagency plans and procedures, and through cooperative adoption.
Adoption of Nongovernment Standards	Extensive use is made of general standards and guidelines provided by NIST (Federal Information Processing Standards), DoD, ANSI, ISO, World Meteorological Organization (WMO). They are refined to meet the special needs for meteorological operations, services, and supporting research.
Committee Activity	The ICMSSR and its subsidiary interagency committees and groups are the developers and approvers of meteorological program plans, standards and guidelines. Members of these groups and of the office of the Federal Coordinator for Meteorology maintain liaison directly and indirectly with other federal and non-federal standards bodies, including international organizations, such as WMO.
Availability	Office of the Federal Coordinator for Meteorology.
Keywords	weather; meteorology; instrumentation; satellites; aviation; space environment; communications; weather reconnaissance; weather radar; solar-terrestrial; data processing;

DEPARTMENT OF COMMERCE

INDUSTRY FUNCTIONAL ADVISORY COMMITTEE ON STANDARDS TRADE POLICY  
MATTERS (IFAC 2)

Trade Advisory Center  
14th Street and Constitution Avenue NW, Room 2015B  
Washington, DC 20230  
(202) 482-3681 FAX: (202) 482-5939

**Authority** IFAC 2 is an advisory committee established under the Trade Act of 1974, as amended by the Trade Agreements Act of 1979 and the Omnibus Trade and Competitiveness Act of 1988, and in accordance with the Federal Advisory Committee Act.

**Implementation** As part of the U.S. Trade Policy Committee structure, IFAC 2 advises the Secretary of Commerce, the U.S. Trade Representative, and other government agencies on the negotiation and implementation of trade policy and agreements in the areas of standards and conformity assessment.

**Application** IFAC 2 has a membership of 40 individuals from the private sector. Half are users of standards and conformity services and half represent standards developers, and testing or product certification services. The focus of the IFAC 2 is on negotiation and implementation of the Agreement on Technical Barriers to Trade (TBT) of the World Trade Organization (WTO, formerly GATT). IFAC 2 also advises on standards and conformity assessment issues within the North American Free Trade Agreement (NAFTA), Asia-Pacific Economic Cooperation (APEC), the Free Trade Area of the Americas (FTAA), and other trade negotiations.

**Adoption of Nongovernment Standards** While IFAC has no direct role in adoption of standards, IFAC 2 supports and encourages government adoption of nongovernment standards, in accordance with the principles of the WTO TBT Agreement.

**Qualification Certification or Calibration** These issues are often included with standards provisions of trade agreements on which IFAC provides advice.

**Committee Activity** As part of the Trade Policy Committee structure, IFAC 2 coordinates and occasionally meets with representatives of the other IFACs and ISACs (Industry Sectoral Advisory Committees).

**Keywords** technical barriers to trade; TBT; conformity assessment; testing; certification; standards; non-tariff trade barriers; trade; business; WTO; standards code;



DEPARTMENT OF COMMERCE

INTERNATIONAL TRADE ADMINISTRATION

Office of Multilateral Affairs/WTO Affairs Division  
14th Street and Constitution Avenue NW., Room 3513  
Washington, DC 20230  
(202) 482-0603 FAX: (202) 482-5939

Authority	Title IV of the Trade Agreements Acts of 1979 (P.L. 96-39), the U.S. legislation which implemented the GATT Agreement on Technical Barriers to Trade (TBT) for the United States and established rules for federal agencies engaged in standards related activities.
Implementation	The TBT is implemented in the United States by the Interagency Trade Policy Staff Committee, Subcommittee on Standards. Within the Department of Commerce (DOC), International Trade Administration (ITA) shares responsibility with the National Institute of Standards and Technology (NIST) for TBT implementation. ITA is primarily responsible for standards trade policy matters, while NIST has the lead in TBT-related technical and informational activities.
Application	Commerce application of Title IV has centered on three areas: 1) publicity of the TBT's rights and benefits to U.S. exporters, particularly of the TBT's technical information network and notification/comment provisions; 2) raising standards-related trading problems of U.S. business in bilateral negotiations with key trading partners under TBT auspices; and 3) representing U.S. industry's interests in WTO TBT Committee deliberations.
Committee Activity	Represents the Commerce Department in the following committees: Committee on Technical Barriers to Trade of the World Trade Organization (WTO); the U.S. Trade Policy Staff Committee, Subcommittee on Standards; and the U.S. Industry Functional Advisory Committee (IFAC 2) on Standards Trade Policy Matters.
Availability	Information to assist U.S. companies in taking advantage of the benefits of the WTO Agreement on Technical Barriers to Trade is available from the WTO Affairs Division.
Keywords	standards code; technical barriers to trade; non-tariff trade barriers; trade; business; general; WTO; TBT;



DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Computer Systems Laboratory (CSL)  
Information Systems Architecture Division  
Building 820, Room 562  
Gaithersburg, Maryland 20899  
(301) 975-2816 FAX: (301) 948-6213  
e-mail: barbara.blickenstaff@nist.gov  
WWW: <http://www.ncsl.nist.gov>

Authority	Federal Property and Administrative Services Act of 1949, as amended by the Computer Security Act of 1987, Public Law 100.235.
Implementation	The Computer Systems Laboratory (CSL) of the National Institute of Standards and Technology performs computer and related telecommunications research, develops standards and guidelines for computer systems, and provides technical assistance and advisory services to Federal Government agencies.
Application	CSL's research and standards activities advance the efficient use of computer technology and support the development of off-the-shelf, commercial products for computer system users. The Computer Security Act specifies CSL's role in protecting sensitive information that is processed in federal computer systems, and designates CSL as the lead agency for standards, guidelines, and technology for the security of unclassified, sensitive information throughout the Federal Government.
Committee Activity	CSL supports national and international voluntary standards developing organizations, and broad-based industry and user consortia that complement the voluntary standards process. CSL staff members participate in technical committees of organizations accredited by the American National Standards Institute, and other groups to foster the development of standards that will meet federal government requirements for applications portability, for the interoperability of hardware, software and communications systems, for the exchange of information between systems, and for the protection of information from threats of all kinds.
Standardization Activities	Standards and guidelines that are developed through government/industry cooperative efforts are issued as Federal Information Processing Standards Publications (FIPS PUBS) to help federal agencies buy off-the-shelf commercial equipment and systems, and to follow accepted good practices in managing information resources.

FIPS PUBS include standards, guidelines, and program information documents for hardware, software, data, and computer systems operations.

Major areas of focus include high-speed network technologies; wireless communication technologies; multimedia and digital video technologies; internetworking technologies; information security; spoken natural language processing; information retrieval; visual image processing; virtual reality; distributed environments and applications; information technologies management; software methods; and information systems policy.

**Availability**

FIPS PUBS are listed in NIST Publications List 58, which is available from NCSL at the above address. FIPS are available from the National Technical Information Service.

**Keywords**

Federal Information Processing Standards; computer systems; computer security; information processing; information technology;

**DEPARTMENT OF COMMERCE**

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**

Electronics and Electrical Engineering Laboratory  
Office of Law Enforcement Standards, Bldg. 225, Rm.A323  
Gaithersburg, Maryland 20899  
(301) 975-2757 FAX: (301) 948-0978  
e-mail: higgins@micf.nist.gov

**Authority**

- (1) Title 1, Section 402(b) of the Omnibus Crime Control and Safe Streets Act of 1968, P.L. 90-351
- (2) 42 U.S.C. 3701, Justice System Improvement Act of 1979, P.L. 96-157

**Implementation**

The Office of Law Enforcement Standards (OLES) formerly the Law Enforcement Standards Laboratory (LESL), develops standards for the National Institute of Justice (NIJ), and the Federal Bureau of Investigation (FBI) at the Department of Justice, and for the National Highway Traffic Safety Administration (NHTSA) at the Department of Transportation.

The standards developed by OLES are performance-oriented insofar as possible. They are not consensus standards, but are subjected to extensive technical and editorial review within NIST, as well as other government agencies, manufacturers, users, and independent experts. The standards are given a final review by the sponsor (NIJ, NHTSA, or the FBI) and are promulgated by them.

The NIJ has elected to publish all OLES-developed standards as voluntary national standards. Criminal Justice agencies are encouraged to use the NIJ standards to achieve cost-effective procurement of equipment through competitive bid. In recent years, under a separate NIJ grant, Aspen Systems Corporation has operated a limited equipment testing program through the National Law Enforcement and Corrections Technology Center (NLECTC), formerly the Technology Assessment Program Information Center (TAPIC). The NLECTC contracts with two independent testing laboratories to conduct tests of equipment in accordance with the NIJ standards. Complete test results are then published by NLECTC in a consumer information report series to assist criminal justice agencies in selecting equipment that is suitable for their needs. Test reports published to date include police body armor, hand-held personal/portable transceivers, handcuffs, riot and crash helmets, narcotic test kits, batteries for hand-held transceivers, 12-Gauge shotguns, 9 mm and 45 caliber revolvers, vehicle tracking devices, body-worn transmitters, and an annual report of police vehicle test results. Subsequent to publication of the initial test report, manufacturers may have their equipment tested to the NIJ standard by either of the two independent testing laboratories, and NLECTC will issue supplemental data sheets for the new products and retest.

In addition to the NLECTC testing program, some manufacturers choose to use the NIJ standards as the benchmark for product design and to certify compliance to the NIJ standards in their equipment specifications.

Prior to 1983, the NHTSA mandated the use of OLES-developed standards for state and local government procurement of evidential breath testers. Commercial products were tested by the U.S. Department of Transportation Systems Center in accordance with OLES-developed standards, and those devices which passed were placed on the NHTSA qualified products list. It is anticipated that all future OLES-developed standards for breath alcohol instruments will be promulgated by NHTSA as voluntary model equipment specifications for use by state and local governments, and not mandated as in the past.

In 1983, the OLES-developed standard for speed measuring radar devices was issued by NHTSA as a voluntary model equipment specification. In that same year, the International Association of Chiefs of Police (IACP) undertook testing of speed measuring radar devices in the same manner as the NIJ equipment testing program and issued a consumer report on the results of those tests.

The standards that are developed by OLES are developed on a schedule consistent with the priorities of the other-agency sponsors and available funds from those agencies. To ensure that the OLES program is relevant to the needs of the law enforcement community, the NIJ has established, through NLECTC, the Law Enforcement and Corrections Technology Advisory Council (LECTAC), which reviews OLES program plans and recommends research and equipment testing priorities, including the mission of NHTSA.

#### Application

OLES's primary focus is on helping law enforcement and criminal justice agencies to acquire on a cost-effective basis the high quality resources they need to do their jobs. To accomplish its task, OLES: (1) develops methods for testing equipment performance and for examining evidentiary materials; (2) develops standards for equipment and operating procedures; (3) develops standard reference materials; and, (4) performs other scientific and engineering research as required.

The equipment standards that are developed by OLES are based upon laboratory evaluation of commercially available products to devise precise test methods that can be universally applied by any qualified testing laboratories, and to establish minimum performance requirements for each attribute of an item of equipment that is essential to the manner in which it functions. The OLES-developed standards can serve as design criteria for the manufacturers or as the basis for equipment evaluation. The application of the standards, which are highly technical in nature, is augmented through the publication of technical reports and user guides. Individual jurisdictions may use the standards in their own laboratories to test equipment, have equipment tested on their behalf using the standards, or cite the standards in procurement specifications.

#### Adoption of Nongovernment Standards

To the extent possible, OLES utilizes pre-existing industrial and trade association standards during the development of standards for NIJ and NHTSA, which may be directly cited or adapted to specialized testing methods in the final standard. Nongovernment standards utilized in the OLES program include those of the American Society for Testing and Materials, the American National Standards Institute, the Institute of Electrical and Electronics Engineers, Electronic Industries Association, and the Society of Automotive Engineers, among others as appropriate.



**Qualification,  
Certification,  
or Calibration**

In those instances when NIJ and NHTSA sponsor the testing of specific items of equipment, OLES assists in the preparation of the request for proposal from testing laboratories and the evaluation of the resulting bids to tentatively select two independent testing laboratories for each item of equipment. Following the award of the two contracts, OLES, NLECTC/IACP, and members of the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program visit the laboratories for an on-site facility investigation and witness the complete testing of one item of equipment.

When the inspection team is satisfied that the laboratory personnel are proficient in testing to the OLES-developed standards, that all test equipment is properly calibrated, maintained and operated, and that appropriate test records are maintained, the NLECTC/IACP classifies the laboratory as a NLECTC/IACP-certified laboratory for that item of equipment. The laboratory is then allowed to proceed with the main-quantity testing. In the event that a laboratory does not demonstrate appropriate testing proficiency or lacks essential facilities during the on-site inspection, the contract is terminated and another laboratory is selected for the testing program. In those instances when the private sector, federal, state or local government agencies wish to apply the OLES-developed standards in their own laboratories, OLES remains available for consultation on the application of the standards. However, certification or accreditation is not provided.

**Committee  
Activity**

OLES participates in pertinent committees of the American National Standards Institute, the American Society for Testing and Materials, Electronic Industries Association, and the Institute of Electrical and Electronics Engineers.

**Standardization  
Activities**

The areas of research investigated by OLES include clothing, communication systems, emergency equipment, investigative aids, protective equipment, security systems, vehicles, weapons, and analytical techniques and standard reference materials used by the forensic science community. The composition of OLES projects varies depending upon the priorities of the criminal justice community at any given time and, as necessary, draws upon the resources of both EEEL and NIST divisions external to OLES.



The NIJ-sponsored activities are part of an overall Law Enforcement and Corrections Standards and Testing Program that includes both the development of standards and other documents and the actual testing of equipment and publication of the test results. The Communication Systems Program has resulted in the development of standards for nearly all items of such systems -- transceivers, base stations, control heads, digital transmission systems, and tracking devices, to mention a few. The Weapons and Protective Equipment Program has developed standards for revolvers and automatic pistols, body armor, protective helmets, and tear gas devices. Other studies and standards have centered on emergency vehicle warning systems, police clothing, components of intrusion alarm systems, physical security of door and window assemblies, weapons and explosive detectors, arson accelerant detectors, and narcotic test kits.

In addition, OLES has developed reference collections for use by forensic laboratories of automobile paints and synthetic fibers, and standard reference materials for glass comparisons and DNA profiling.

The overall NHTSA program is limited to the three types of speed-measuring devices, i.e., conventional radar units, photoradar and lidar.

OLES provides a complete publication list of documents available from the program upon request. This list is updated periodically as new documents are published.

#### **Availability**

National Technical Information Service; U.S. Government Printing Office; National Criminal Justice Reference Service; National Law Enforcement and Corrections Technology Center; and the Office of Law Enforcement Standards.

#### **Keywords**

alarm systems; alcohol countermeasures; ammunition; body armor; breathalyzer; bullets; communications; DNA profiling; electrical; electronic; emergency equipment; firearms; fire protection; forensic science; investigative aids; laser radar; law enforcement; lidar; photoradar; police equipment; protective equipment; radar; security systems; speed enforcement; standard reference materials (SRM); surveillance; traffic safety; vehicles; weapons;

DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Technology Services (TS)  
Gaithersburg, Maryland 20899  
(301) 975-4500 FAX: (202) 975-2183

<b>Authority</b>	31 Stat. 1449 as amended, 64 Stat. 371, 15 U.S.C. 271-278, P.L. 89-306, P.L. 89-755, and P.L. 94-168.
<b>Implementation</b>	Voluntary Product Standards (VPS) are developed under Department of Commerce (DOC) procedures (15 CFR, Part 10) current VPS standards pertain to softwood lumber (PS 20-94), wood-based structural use panels (PS 2-92), and construction and industrial plywood (PS 1-95).
<b>Application</b>	Voluntary Product Standards are voluntarily used by manufacturers, distributors, purchasers, specifiers, and others in producing, marketing, and specifying products. Some Voluntary Product Standards are referenced in local and state building codes and are used in product certification programs.
<b>Qualification, Certification, or Calibration</b>	See program descriptions listed below.
<b>Committee Activity</b>	Technology Services (TS) coordinates and monitors the National Institute of Standards and Technology (NIST) activities in standards committees. NIST staff members hold more than 1,172 memberships on 819 standards committees of some 80 organizations (national as well as international) involved in standards activities. NIST staff participate in many standards programs as part of the institute's responsibilities for maintaining and advancing national standards of measurement.
<b>Standardization Activities</b>	The TS Office of Standards Services (OSS) monitors the Institute's total involvement in private sector standards activities. OSS is the focal point for coordinating standards activities throughout the Department of Commerce, and assists other agencies in implementing federal standards policy as enunciated in OMB Circular A-119. It operates the Interagency Committee on Standards Policy and uses that committee to implement the provisions of Circular A-119 in a uniform and effective manner throughout all federal executive branch agencies. The office also serves as the principal point of contact between the federal government and the voluntary standards community. NIST staff persons serve on the boards and councils of many voluntary standards organizations, including ANSI, ASTM, ASHRAE, ITI, IEEE, NFPA, and UL, and thereby have the opportunity to influence national standards policy.

There are nine major standards related programs in TS:

- The Laboratory Accreditation Program operates the National Voluntary Laboratory Accreditation Program (NVLAP), which provides a mechanism for nationally recognizing the competence of testing and calibration laboratories based on evaluation of the technical qualifications and ability of such laboratories to perform specific nationally recognized tests methods in such fields as asbestos fibers and electromagnetic telecommunications and/or to conduct calibrations traceable to national standards. Laboratories must meet ISO/IEC Guide 25 requirements for facilities, equipment, personnel, traceability and quality management systems to be accredited under this program. NVLAP provides evaluation and recognition of testing performance, especially in response to Congressional mandates and requirements of other federal agencies, to domestic and foreign laboratories, state and local governments, and commercial interests. The program also represents U.S. interests in the International Laboratory Accreditation Conference (ILAC) and provides the basis for bilateral agreements with other countries for acceptance of test data produced in U.S. laboratories.
- The Global Standards Policy Program provides technical support for the Office of the U.S. Trade Representative and the International Trade Administration in negotiations with trading partners; develops policy and planning for implementing the NAFTA and the Free Trade Area of the Americas, as well as for trade with Russia and the NIS, the European Union, the Middle East, and the Asia-Pacific region; participates in DEVCO and UNECE; conducts economic and socio-political analyses of the likely impact of standards and conformity assessment programs on commerce and trade; and operates the National Voluntary Conformity Assessment Systems Evaluation (NVCASE) program.
- The Technical Standards Activities Program provides a "technical office for non-agricultural products" to investigate problems related to non-tariff trade barriers; manages U.S. representation and participation in the International Organization of Legal Metrology (OIML), an intergovernmental body concerned with the harmonization of national legal requirements pertaining to measurements in commerce, industry, and public health; provides technical support for domestic and international standardization activities and for U.S. standards experts posted abroad. This program is also responsible for administering the Department of Commerce Voluntary Product Standards Procedures (15 CFR Part 10).

- The Standards Information Program is responsible for providing information on 1) U.S. Voluntary standards, 2) domestic and foreign government regulations and specifications, 3) U.S. certification programs, 4) foreign and international standards, and 5) proposed foreign regulations relating to standards and certification programs which might significantly affect trade. The program operates the National Center for Standards and Certification Information (NCSCI) (See Sources of Standards and Information), which serves as the U.S. "inquiry point" for the World Trade Organization (WTO) and the North American Free Trade Agreement (NAFTA), as required by law, and the International Organization for Standardization's (ISO's) Information Network (ISONET). The Center also participates in meetings of national and international information exchange specialists. The standardization activities of all NIST units are summarized in an annual NIST report which provides statistical and narrative information about the participation of NIST staff in standardization activities.

The Standards Training and Support Program manages the placement in key U.S. embassies, missions or standards organizations of technical experts in standards and conformity assessment. These experts provide technical advice and support to commercial and economic staffs in the identification and resolution of trade issues involving technical barriers. The program also conducts standards related training programs for technical experts from Russia and the NIS, the Americas, the Middle East, and other areas important for U.S. trade.

- The Office of Weights and Measures develops recommendations for performance and test requirements for weighing and measuring devices used commercially and develops test methods to be used in evaluating these devices. This office sponsors and provides technical advice for the National Conference on Weights and Measures (a national organization made up of federal, state, and local weights and measures officials and appropriate industry representatives), which promotes uniformity in weights and measures programs through the adoption of model laws, regulations, specifications, and tolerances for weights and measures.



- The Standards Reference Materials (SRM) Program certifies the chemical composition or physical properties of more than 1200 solids, liquids, and gases. Companies use these SRMs to verify the accuracy of analytical or other measurement methods under development or to calibrate established measurement systems to ensure consistently accurate performance of equipment and operators. The SRM program publishes a catalog that lists all available reference materials, as well as other timely information, offers telephone consultations on SRM uses, and organizes seminars to advise industry on SRM applications.
- The Standards Reference Data Program provides well-documented numeric data to scientists and engineers for use in technical problem solving, research, and development. These recommended values are based on data extracted from the world's literature, assessed for reliability, and then evaluated to select the preferred value. To increase the usefulness and accessibility of the data, a series of personal computer databases with interactive programs, search routines, and other calculational and graphical software features have been developed and are available from NIST.
- The Calibration Service Program provides more than 500 different services to ensure that manufacturers and other users of precision instruments achieve measurements of the highest possible quality. These services link a customer's precision equipment or in-house standards to national standards. The services encompass seven major areas: dimensional measurements; mechanical, including flow, acoustic, and ultrasonic; thermodynamics; optical radiation; ionizing radiation; electromagnetics, including direct current, alternating current, radio frequency, and microwave, and time and frequency. The program also publishes a catalog with a complete listing of available services materials as well as other timely information, offers telephone consultations on the use of services and the importance of traceability to national standards, and makes presentations to industry on these issues.

#### Availability

Voluntary Product Standards are available from the National Institute of Standards and Technology or the National Technical Information Service. Standard reference materials and standard reference data are available from NIST.



Formerly	The National Bureau of Standards, Office of Product Standards Policy and Office of the Associate Director for Industry & Standards.
Keywords	standards; standard reference materials; standard reference data; reference materials and data; Voluntary Product Standards; ILAC; OIML; laboratory accreditation; conformity assessment; GATT; standards information; inquiry point; testing; general; trade; technical barriers to trade; calibration; measurement; traceability;
DEPARTMENT OF COMMERCE	
	NATIONAL MARINE FISHERIES SERVICE
	Office of Industry Services, Inspection Services Division 1315 East West Highway, Room 12554 Silver Spring, Maryland 20910 (301) 713-2355 FAX: (301) 713-1081 WWW: <a href="http://kingfish.ssp.nmfs.gov/iss/issue.html">http://kingfish.ssp.nmfs.gov/iss/issue.html</a>
Authority	<ol style="list-style-type: none"> <li>(1) 7 U.S.C. 1621-1627, Agricultural Marketing Act of 1946, to encourage uniformity and consistency in commercial practices.</li> <li>(2) 16 U.S.C. 742e, Fish and Wildlife Act of 1956, to promote fair trade standards.</li> <li>(3) 84 Stat. 2090, Reorganization Plan No. 4, which transferred the National Seafood Inspection Program from the Department of the Interior to the Department of Commerce.</li> </ol>
Implementation	21 voluntary standards are codified as regulations in 50 CFR, Parts 261-267. They establish U.S. Standards for Grades for fish and fishery products.
Application	Inspectors certify, at the request of the seafood processor, that the product meets the criteria established in these standards. The inspection is conducted at the processing facility.
Adoption of Nongovernment Standards	No nongovernment standards have been adopted.

**Qualification,  
Certification,  
or Calibration**

To be eligible to use the official Department of Commerce (DOC) grade or identification marks as specified in 50 CFR Part 260.86, the processor must participate in the voluntary National Seafood Inspection Program. The marks may appear on the product label and/or the certificate. The processor pays for participation in the Program. Seafood processors that do not participate in the Program may use the U.S. Standards for Grades as guidelines but must not display the official marks.

**Committee  
Activity**

The following committees of the Codex Alimentarius Commission:

- Fish and Fishery Products
- Food Hygiene
- Food Labeling
- Pesticide Residues
- Methods of Analysis and Sampling
- on Residues of Veterinary Drugs in foods
- Food Import and Export Inspection and Certification Systems

**Standardization  
Activities**

The National Marine Fisheries Service (NMFS) is actively involved in the preparation of U.S. Standards for Grades for seafood products which establish the criteria for the measure of quality of those seafood products (U.S. Grade A, B, and C). The standards currently pertain to various fresh and frozen seafood products. These standards, the use of which is voluntary, are prepared at the request of the seafood processing industry and are available to all interested parties in this country and abroad.

This agency's participation on the various committees of the Codex Alimentarius Commission, specifically the Committee on Fish and Fishery Products, is critical to ensure that the recommended international standards which establish a minimum standard of quality are reflective of this country's commercial practices.

This agency is also responsible for preparing specifications for seafood purchased for USDA's various feeding programs (school children, elderly, needy, American Indians).

**Availability**

National Seafood Inspection Laboratory, National Marine Fisheries Service, P.O. Drawer 1207, Pascagoula, Mississippi 39567-0112.

**Keywords**

fish; fishery products; seafood; quality standards; fish quality; seafood specifications; food safety;

DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

National Environmental Satellite, Data, and Information Service  
Data Collection and Direct Broadcast Branch  
E/SP21 NOAA/NESDIS  
Room 806  
5200 Auth Road  
Camp Springs, Maryland 20746  
(301) 763-8325

<b>Authority</b>	15 U.S.C. 3.3, 49 U.S.C. 1483 provides the Secretary of Commerce with the authority to develop an international basic meteorological network.
<b>Implementation</b>	Regulations on the administration and operation of a Geostationary Orbiting Environmental Satellite Data Collection System (GOES-DCS) is codified at 15 CFR, Part 911.
<b>Application</b>	The National Oceanic and Atmospheric Administration (NOAA) GOES Data Collection System utilizes geostationary satellites to collect environmental data from remote locations. Standards on UHF transmitters and related equipment are established to ensure system integrity.
<b>Qualification, Certification, or Calibration</b>	Manufacturers submit plans for in-plant testing of Data Collection Platform Radio Sets. If the plans are approved, a NOAA representative visits the manufacturer's testing facility and witnesses the tests. If a representative unit meets all of the established standards a type certificate is issued to the manufacturer.
<b>Committee Activity</b>	National Environmental Satellite, Data, and Information Service (NESDIS) participates in the Coordinating Group for Geostationary Meteorological Satellites (CGMS) to establish compatible standards for international use. CGMS is sponsored by the World Meteorological Organization (WMO).
<b>Standardization Activities</b>	Periodic meetings with industry are conducted to review the adequacy and applicability of the standards. Revisions to the existing standards are proposed in response to: technological developments; cost effectiveness considerations; operational difficulties observed within the GOES-DCS; and the need to clarify and improve measurement techniques.
<b>Availability</b>	Four standards for self-timed, random reporting, international and interrogated Data Collection Platform Radio Sets are available from the address above.

**Keywords**                   satellites; environment; electronic equipment; data processing;  
aerospace;

**DEPARTMENT OF COMMERCE**

**NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION**

National Weather Service  
Sterling Research & Development Center  
Sensor Test Section  
44210 Weather Service Road  
Sterling, Virginia 20165  
(703) 471-5302

**Authority**                   (1)   15 U.S.C. 311 and 313, the original acts establishing the  
United States Weather Bureau. (2) 49 U.S.C. 1463 and Title  
8, Section 803, of the Federal Aviation Act of 1958.

**Implementation**           Standards for producing weather information are included in the  
series of the Federal Meteorological Handbooks, Federal  
Specifications for Meteorological Equipment, and Operational  
Directives from the National Weather Service.

**Application**               Observers are certified by examination and experience and  
observatories are certified by periodic on-site inspection.  
Standards for federal specifications are applied by the purchase  
orders for the equipment, and Operational Directives are applied  
by on-site inspection of the affected installation.

**Adoption of  
Nongovernment  
Standards**               Excluding those that are produced by intergovernmental  
agreement within the United Nations, nongovernment  
generated standards are relatively rare within the field of  
meteorology. A few such standards produced by organizations such  
as the American Society for Testing and Materials have been  
adopted. An effort is now underway to encourage voluntary  
standards organizations to produce standards for meteorology.

**Qualification,  
Certification,  
or Calibration**           Meteorological observatories are certified if they  
conform to the performance standards detailed in  
Federal Meteorological Handbooks, and National Weather Service  
Operational Directives.

**Committee  
Activity**               The National Weather Service actively participates in  
the standardization activities of the World Meteorological  
Organization, the Office of the Federal Coordinator for  
Meteorological Services and Supporting Research, the American  
Society for Testing and Materials the International Organization  
for Standardization, and the Range Commanders Council.

**Standardization  
Activities**

The development of standard methods for producing meteorological observations and measurements and the development and use of standard test methods for meteorological equipment are actively pursued by the National Weather Service. Most standards are produced within the government and contained within the Federal Meteorological Handbooks and by cooperation with other governments as published by the World Meteorological Organization in its guide to good practice. Nongovernment voluntary standards development organizations, such as the American Society for Testing and Materials, have been encouraged to develop standards for use in the field of meteorology, but to date very few such standards exist.

**Availability**

The Federal Meteorological Handbooks are sold by the Government Printing Office. Federal specification for equipment and testing are available through the GSA Specification Unit.

**Keywords**

meteorology; weather; atmosphere; aviation; climatology; test; environment; instruments;

**DEPARTMENT OF COMMERCE**

**NATIONAL TELECOMMUNICATIONS AND  
INFORMATION ADMINISTRATION**

Institute for Telecommunications Sciences  
325 Broadway  
Room 3020 Radio Building  
Boulder, Colorado 80303-3328  
(303) 497-3500 FAX: (303) 497-5993  
WWW: <http://www.its.bldrdoc.gov/home.html>

**Authority**

Executive Order 12046, which established NTIA in 1977

**Application**

The Institute for Telecommunications Sciences (ITS), the research and engineering arm of the National Telecommunications and Information Administration (NTIA), participates and contributes to both national and international standards activities in radio, telecommunications, data transmission, and processing technologies. ITS staff are particularly involved in developing American National Standards and Federal Telecommunication Standards and providing leadership and participating in the development and promulgation of international telecommunication standards.



**Committee Activity** ITS participates in the development of voluntary national consensus standards with emphasis on data, voice, and video performance standards, and integrated services digital network (ISDN) standards through the American National Standards Institute (ANSI) committees: Performance and Signal Processing Technical Subcommittee; Services, Architectures, and Signaling Technical Subcommittee; and Systems Engineering, Standards Planning and Program Management Technical Subcommittee. ITS participates in the Federal Telecommunications Standards Committee and Chairs HF Radio Subcommittee. Internationally, ITS members work to develop Recommendations of the International Telecommunications Union's Telecommunication and Radiocommunication Sectors. ITS chairs two U.S. ITU-R Study Groups: Spectrum Utilization and Monitoring. The Institute also chairs a U.S. ITU-T preparatory group: U.S. Study Group B (Switching, Signaling, and ISDN).

**Keywords** radio; telecommunications; data processing;

#### DEPARTMENT OF COMMERCE

##### U.S. PATENT AND TRADEMARK OFFICE

Office of the Deputy Assistant Commissioner for Patent Policy and Projects  
Room 910, Crystal Park Building 2  
2121 Crystal Drive  
Arlington, Virginia 22202  
Mailing Address: Washington, DC 20231  
(703) 305-8813 FAX: (703) 305-8825  
e-mail: uspto.gov.  
WWW: <http://www.uspto.gov>

**Authority**

- (1) 35 U.S.C. 6 authorizes the Commissioner of Patents and Trademarks to "establish regulations, not inconsistent with law."
- (2) 35 U.S.C. Section 9
- (3) 37 CFR 1.52(b)
- (4) 37 CFR 1.84(b)

**Implementation** Manual of Classification, U.S. Patent and Trademark Office (USPTO), a looseleaf book containing a list of all the classes and subclasses of inventions in the USPTO classification system.

**Application** This classification is used by the USPTO, and any other user of patent information, to classify and retrieve a patent or patent related document in the U.S. Classification system.

Committee Activity	The Patent and Trademark Office participates in pertinent committees of the World Intellectual Property Organization, Geneva, Switzerland.
Standardization Activities	Member of Assembly of the Patent Cooperation Treaty in order to provide patent application format and units of weights and measures acceptable in all member countries.
Availability	Published in "Title 37, Code of Federal Regulations" and "Manual of Patent Examining Procedure," both available from U.S. Government Printing Office.
Keywords	patent applications; paper size; metric system; business; general;

#### DEPARTMENT OF COMMERCE

##### U.S. PATENT AND TRADEMARK OFFICE

Office of International Patent Documentation  
 Washington, DC 20231  
 (703) 557-3756

Implementation	Subcommittee H of American National Standards Committee Z39 specializes in patent matters and sets guidance standards therefore.
Application	Voluntary adoption
Adoption of Nongovernment Standards	Z39 meets with representatives of the U.S. Patent and Trademark Office (USPTO) and other related organizations to discuss and set standards to be used by the USPTO on a voluntary basis.
Committee Activity	The USPTO actively participates in Subcommittee H of Z39.
Standardization Activities	Z39 Subcommittee H (Patent Standards) gives special consideration to the publishing policies and practices of the USPTO in the development of U.S. standards as a result of the position of the USPTO as the primary publisher of U.S. patent literature. Z39 Subcommittee H addresses the practices of foreign publishers of patent data and those organizations in the United States who repackage and republish foreign patent data.

Availability American National Standards Institute

Keywords patents; patent standards; business;

## DEPARTMENT OF COMMERCE

### U.S. PATENT AND TRADEMARK OFFICE

Trademark Examining Operation  
Office of the Director  
2011 Jefferson Davis Highway  
Arlington, Virginia 22202  
(703) 557-3268

Authority 15 U.S.C. 1112, July 15, 1946, Lanham Act Section 30, gives the Commissioner the authority to establish a system of classification of goods and services.

Implementation 37 CFR 2.85 and Part 6, implement the adoption of the International Schedule of classes for goods and services. Classification is the basis for determining the fee which must be paid per application.

Committee Activity U.S. Patent and Trademark Office (USPTO) is a member of the Committee of Experts which is the acting body established by the Nice Agreement. The Committee of Experts meets periodically to revise the International Classification.

Standardization Activities The classification of specific goods and services is set forth in the Alphabetical List entitled "International Classification of Goods and Services for Purposes of the Registration of Marks Under the Nice Agreement," published by the World Intellectual Property Organization (WIPO). This classification list contains the name of each class and the basic contents of the class. The Alphabetical List also comprises explanatory notes which serve as guidelines for determining the appropriate International Class for a specific product or service.

The primary purpose of the International Alphabetical List is to provide a written source for determining proper identifications and classifications of goods and services. The classification lists consist of:

- (1) a list of classes, together with explanatory notes; and
- (2) an alphabetical list of goods and services with an indication of the class into which each of the goods or services falls.

**Availability** World Intellectual Property Organization, 34 Chemin des Colombettes, 1211 Geneva 20, Switzerland,

UNIPUB, P.O. Box 433, Murray Hill Station, New York, New York 10016.

**Keywords** international classification; Nice Agreement; classification list; trademark classification; business; general;

CONGRESS OF THE UNITED STATES

JOINT COMMITTEE ON PRINTING

818 Hart Senate Office Building  
Washington, DC 20510-6650  
(202) 224-5241

**Authority** The Joint Committee on Printing (JCP), created by act of August 3, 1846 (9 Stat. 114), is responsible for establishing specification standards for papers used in public printing and binding (44 U.S.C. 509), including Federal Government printing and duplicating procured from the private sector.

**Implementation** The Government Paper Specification Standards include approximately 100 individual specifications for writing and printing papers, together with testing information, color standards, and acceptance criteria.

**Application** All the Government Paper Specification Standards must be used by all departments of the federal government and their field activities in the preparation of procurement documents for paper stocks and in specifying paper stocks to be used in printing, binding, copying, and duplicating, unless otherwise authorized by the Joint Committee on Printing.

**Standardization Activities** Administered by an Advisory Council on Paper Specifications and its Technical Subcommittee, under the chairmanship of the Joint Committee's Staff Director. Participating agencies include U.S. Government Printing Office, General Services Administration, EPA, Treasury, NARA, Federal Environmental Executive and the Department of Defense. Staff participates in relevant activities of ANSI, and the ANSI-accredited CGATS, GCA committees.

**Availability**

U.S. Government Printing Office, Superintendent of Documents (Order Stock Number 952-001-00000-1; List I.D. Number GPS). Also available: Government Paper Samples (Order Stock Number 021-000-00160-1)

**Keywords**

paper; colors; office products; printing;

**CONSUMER PRODUCT SAFETY COMMISSION****DIRECTORATE FOR ENGINEERING SCIENCES**

Mechanical, Electrical, and Thermal Hazard-Related Standards  
for Consumer Products  
(301) 504-0504

**DIRECTORATE FOR HEALTH SCIENCES**

Chemical Hazard-Related Standards for Consumer Products  
(301) 504-0957 FAX: (301) 504-0124

4330 East-West Highway  
Bethesda, Maryland 20814  
e-mail: info@cpsc.gov

**Authority**

Consumer Product Safety Act (15 U.S.C. 2051 et seq.); Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.); Poison Prevention Packaging Act (15 U.S.C. 1471 et seq.); Flammable Fabrics Act (15 U.S.C. 1191 et seq.); and Refrigerator Safety Act (15 U.S.C. 1211 et seq.).

**Implementation**

All standards, regulations and policy issuances are to be found within Title 16, Code of Federal Regulations Chapter II, Commercial Practices, Parts 1000 to end. Information on all Consumer Product Safety Commission (CPSC) mandatory product safety standards is published in the Federal Register in Advance Notices of Proposed Rulemaking, Notices of Proposed Rulemaking, and Final Rules.

**Application**

The Commission enforces all regulations and standards published in 16 CFR Chapter II, Parts 1000 to end. The Directorate for Compliance and Administrative Litigation is the Commission organization responsible for this activity. This Directorate is located at 4330 East-West Highway, Bethesda, Maryland. Telephone requests for information on regulatory standards enforcement may be obtained by calling (301) 492-6400. This Directorate is also responsible for enforcement activities under Section 15 of the Consumer Product Safety Act. Reports of information which reasonably supports the conclusion that a product contains a



	defect which could create a substantial product hazard, as required under Section 15 of the Consumer Product Safety Act, should be made by calling (301) 492-6608 with concurrent notification, in writing, to: Division of Corrective Actions, U.S. Consumer Product Safety Commission, Washington, DC 20207.
Adoption of Nongovernment Standards	Amendments to the Consumer Product Safety Act, the Federal Hazardous Substances Act, and the Flammable Fabrics Act enacted by Congress in 1981 encourage reliance on voluntary standards developed by industry or other nongovernmental organizations to reduce risks of injury whenever possible, Sec. 15 U.S.C. 2058, 15 U.S.C. 1262(f), and 15 U.S.C. 1193(g).
Qualification, Certification, or Calibration	Product certification is specifically required by Section 14 of the Consumer Product Safety Act (CPSA) (15 U.S.C. 2063). Manufacturers or private labelers must issue certificates stating that their product meets any applicable consumer product safety standard issued under the CPSA. The Commission may also prescribe testing and labeling requirements by regulation under the authority of Section 14 of the CPSA.
Committee Activity	CPSC participates in a variety of nongovernment and government standardization committees. For specific information on committees with which the Commission is working contact either the Directorate of Engineering Sciences or the Directorate for Health Sciences.
Standardization Activities	<p>The U.S. Consumer Product Safety Commission, an independent federal regulatory agency, was officially activated on May 14, 1973, to implement the Consumer Product Safety Act, P.L. 92-573. The Commission's primary goal is to substantially reduce injuries associated with consumer products. The Act granted broad authority to issue and enforce safety standards for more than 10 000 consumer products.</p> <p>The Act specifically excludes certain products from the Commission's jurisdiction. Among the excluded products are foods, drugs, cosmetics, boats, aircraft, motor vehicles, and pesticides, most of which are regulated by other federal agencies.</p> <p>Amendments to the Consumer Product Safety Act enacted in 1981 encourage the development of voluntary consumer product safety standards by industry. The Commission may adopt voluntary standards issued by nongovernmental organizations as mandatory standards or issue mandatory requirements independently. The Commission may ban products which present an unreasonable risk of injury if no safety standard is feasible. The Directorate for Engineering Sciences and the Directorate for Health Sciences serve as the focal points for standards development within CPSC.</p>

**Availability**

U.S. Government Printing Office

**Keywords**

consumer products; safety; textiles; general;

**DEPARTMENT OF DEFENSE****DEFENSE INFORMATION SYSTEMS AGENCY**

Center for Standards  
Joint Interoperability and Engineering Organization  
10701 Parkridge Blvd.  
Reston, Virginia 22091-4398  
(703) 487-8338 FAX: (703) 735-3575  
e-mail: [sweetd@cc.ims.disa.mil](mailto:sweetd@cc.ims.disa.mil)  
WWW: <http://www.itsi.disa.mil>

**Authority**

Title 10, United States Code, Chapter 8, to plan, develop, and support Command, Control, Communications, Computers, and Intelligence (C4I) that serve the National Command Authority (NCA) under all conditions of peace and war. The JIEO Center for Standards acts for DISA as Executive Agent for coordinating the DOD information Technology (IT) Standards Program.

**Implementation**

The Center for Standards assists the military services and DOD agencies to identify the need for information technology standards (for information, information transfer, information processing) and to ensure that appropriate standards are available that meet DOD's needs. The Center assists the services and agencies in selecting the appropriate standards (i.e., developing the standards profile) for new systems and modernization programs.

**Application**

The goal is to achieve standards based solutions in DOD C4I systems for interoperability, portability, reusability, efficiency, effectiveness and to make optimal use of commercial standards and products.

**Adoption of  
Nongovernment  
Standards**

The Center promotes, and participates with DOD representatives, in the development and use of international and national nongovernment standards for implementation in DOD C4I systems, achieving economy of cost and schedule. Standards development occurs in nationally recognized voluntary organizations, industry consortia, and international treaty and bilateral and multilateral organizations. Military standards are developed only if the requirements cannot be satisfied by an existing or planned nongovernment standard. Most military standards published under the IT Standards Program are profiles of (selecting options and features from) nongovernment standards.

**Qualification,  
Certification,  
or Calibration**

The Center supports DOD evaluation of systems with C4I capabilities for satisfaction of interoperability, compatibility, and integration requirements. Specifically, the Center reviews DOD C4I system life cycle acquisition documentation, and standards profiles, for compliance with DOD standards policy. The Center's recommendations, together with other inputs, notably from the DISA Joint Interoperability Test Command (JITC), are processed by the Joint Chiefs of Staff (J6I) and OASD(C3I) leading to requirements and interoperability certification of DOD C4I systems.

**Committee  
Activity**

The Center provides DOD representatives to many national and international standards bodies including ANSI, IEEE, ISO, ITU, standards consortia such as the OSF (Open Software Foundation), and international treaty, multilateral and bilateral standards bodies, such as found in NATO and in various Pacific Rim arrangements.

**Availability**

On the World Wide Web and from the Defense Printing Service, Philadelphia, PA.

**Keywords**

standards profiles; information technology; information transfer; information processing; communications; command and control; intelligence; C4I; interoperability; portability; reusability;

**DEPARTMENT OF DEFENSE**

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE (ECONOMIC SECURITY)

Standardization Program Division  
Suite 1403  
5203 Leesburg Pike  
Falls Church, Virginia 22041-3466  
(703) 681-9340 FAX: (703) 681-7622  
WWW: <http://www.acqosd.mil/es/std/stdhome.html>

**Authority**

Title 10, U.S. Code, Chapter 145, Cataloging and Standardization and implemented by DoD Instruction 50000.2

**Implementation**

DoD's standardization program implements 27 000 Military Specifications and 1600 Military Standards; it is responsible for 1300 Federal Specifications, 25 Federal Standards and 4200 Commercial Item Descriptions. More than 7400 nongovernment standards have been adopted.

Application	Department of Defense (DoD) standardization documents are used as procurement documents for all types of equipment and commodities, as well as documents that provide selection criteria for items, equipment, engineering practices, etc., used in new design.
Adoption of Nongovernment Standards	DoD has adopted over 7400 nongovernment standards to be used instead of military documents. These private sector documents were developed by a number of nongovernment standards organization including ASTM, SAE, AIA, UL, and others.
Qualification, Certification, or Calibration	DoD has developed over 1000 Qualified Products Lists and Qualified Manufacturers Lists, which describe products or manufacturing processes that have been examined, tested, and approved as meeting the requirements of applicable specifications.
Committee Activity	The Department of Defense participates in numerous intergovernmental and nongovernmental committees to share in the development of both policy and acquisition standardization documents.
Standardization Activities	<p>The Defense Standardization Program (DSP) is a single, integrated defense-wide program to achieve optimum uniformity among the variety of systems, equipment, materials, engineering practices, operations, and manufacturing processes developed for or used by the DoD. Standards and specifications developed by (or in concert with) nongovernment standards groups are utilized to the maximum extent possible. The adoption of nongovernment standards avoids the preparation of duplicative or overlapping military documents. It is DoD policy to cooperate with the standards organizations operating in other government agencies, as well as, those in the private sector.</p> <p>Standards and specifications are developed in over 100 offices of the DoD whose addresses are listed in the Standardization Directory, SD-1, which is available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, Pennsylvania 19111-5094.</p>
Availability	Military and federal specifications, standards, and handbooks, commercial item descriptions, and adopted nongovernment standards are listed in the DoD Index of Specifications and Standards. Copies of these documents are available from the DoD Single Stock Point, IHS, Global, and various other private distributors and libraries.



Keywords	military equipment; industrial equipment; consumer products; materials; parts; food; clothing; packaging; construction; building; aerospace; medical devices; communications; general; defense;
DEPARTMENT OF ENERGY	
BUILDING TECHNOLOGIES	
Building Appliance Division Room 1J-018 Washington, DC 20585 (202) 586-0517	
Authority	42 U.S.C. 6291-6309, the Energy Policy and Conservation Act of 1975 (P.L. 94-163), as amended by the National Energy Conservation Policy Act of 1978 (P.L. 95-619), the National Appliance Energy Conservation Act of 1987 (P.L. 100-12) and the National Appliance Energy Conservation Amendments of 1988 (P.L. 100-357), provides for implementation of energy efficiency test procedures and standards for at least 13 categories of major household appliances.
Implementation	Test procedures have been established for 13 categories of appliances in 10 CFR Part 430, Subpart B. The 13 categories of appliances are: refrigerators, refrigerator-freezers, and freezers; furnaces; central air conditioners and central air conditioning heat pumps; room air conditioners; water heaters; dishwashers; clothes washers; clothes dryers; direct heating equipment; pool heaters; kitchen ranges and ovens; television sets; and fluorescent lamp ballasts. Standards have been established, by legislation, for 12 of the 13 categories of appliances in 10 CFR Part 430, Subpart C.
Application	The established test procedures are required, under regulations issued by the Federal Trade Commission (FTC), to be used by manufacturers in the preparation of labels and other representations concerning the energy efficiency of covered products. In addition, the manufacturers certification of compliance with a standards is to be based on manufacturers testing of covered products in accordance with the applicable test procedure. Selective government test may be performed for enforcement purposes.
Adoption of Nongovernment Standards	The established test procedures adopt, by reference, some nongovernment test procedures; including, but not limited to, procedures established by ANSI, ASHRAE, ASTM, and the Association of Home Appliance Manufacturers (AHAM).



Qualification, Certification, or Calibration	Consumer product manufacturers are responsible for the application of the established test procedures, although FTC or DOE may perform independent tests to verify manufacturers claims.
Committee Activity	The appropriate staff of DOE and The National Institute of Standards and Technology (NIST) participate in several relevant committees of ASHRAE and the Air-Conditioning and Refrigeration Institute (ARI).
Standardization Activities	DOE, with the support of the NIST, is active in the preparation, review, and updating of energy efficiency test procedures for all 13 covered appliances. In addition, DOE in accordance with the law, reviews the standards on a regular basis to determine if updates are justified. With respect to the test procedures, every effort is made to utilize private consensus standards, if appropriate. Federal energy efficiency standards preempt state-established energy efficiency standards. States may apply to DOE for exemptions from this rule.
Availability	DOE and U.S. Government Printing Office
Keywords	energy conservation; energy efficiency; household appliances; buildings; consumer products; energy;

## DEPARTMENT OF ENERGY

### BUILDING TECHNOLOGIES

Building Division, Office of Codes and Standards  
Room 1J-018  
Washington, DC 20585  
(202) 586-0517

Authority	Title III of the Energy Conservation and Production Act, as amended (42 U.D.C. 6831 et seq.) sets forth four major provisions. First, states are required to consider whether to update the energy efficiency provisions of their residential building codes to meet or exceed the Model Energy Code, 1992 and subsequent revisions to such standard that the Secretary makes a determination will improve the energy efficiency of residential buildings. Second, states are required to update provisions of their residential buildings and commercial building codes to meet or exceed the building industry consensus standard 90.1-1989 and
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subsequent revisions to such standard that the Secretary makes a determination will improve the energy efficiency of commercial buildings. Third, states are required to certify to the Secretary that they have accomplished the above actions (extensions are provided for). Fourth, technical assistance and incentive funding are to be provided to the states by the Department to implement the above requirements and to promote building energy efficiency through the use of such codes.

Regarding, federal building energy efficiency standards, the Department is to promulgate standards that meet or exceed the Model Energy code, 1992, in the case of residential buildings, or Standard 90.1-1989, in the case of residential buildings, or Standard 90.1-1989, in the case of commercial buildings, and to the extent practicable, use the same format as the appropriate voluntary building energy code. Periodic review and updating is provided for. The existing interim standards are to remain in effect until the new standards become effective. Federal agencies are responsible for implementation and expenditure for construction is dependant on meeting or exceeding the federal standards.

Regarding support for voluntary building energy codes, the Department is required to support the upgrading of the Voluntary building energy codes (such as the Model Energy Code or Standard 90.1) and to participate in the processes for their review and modification.

#### Implementation

A draft notice of proposed rulemaking has been prepared for federal commercial and multi-family high rise buildings and is expected to be issued in 1996. A draft notice of proposed rulemaking has been prepared for federal residential low rise buildings and is expected to be issued in 1996.

#### Application

The head of each federal agency and the Architect of the Capitol are required to adopt procedures necessary to ensure that new federal buildings meet or exceed the federal building energy standards. The head of a federal agency may expend federal funds for the construction of a new federal building only if the building meets or exceeds the appropriate federal building energy standards.

#### Adoption of Nongovernment Standards

The federal standards reference building industry standards developed by ANSI, ARI, ASTM, ASHRAE, CTI, IES, NEMA, and UL.

#### Committee Activity

DOE staff participate in several relevant committees of ASHRAE, AIA, and IES.

**Standardization  
Activities**

DOE staff participate in ASHRAE Standing Standards project Committees 90.1 and 90.2; the CABO Model Energy Committee and One and Two Family Dwelling Code Committee; the Building Officials and Code Administrators International (BOCA) National Mechanical and Building Code Activities; the Southern Building Code Congress International (SBCCI) standard Building Code Committee; the International Conference of Building Officials (ICBO) Uniform Mechanical and Building Code Committees; and the emerging International Code Council (ICC) Committees.

**Availability**

Federal codes and standards indicated above are promulgated in the Code of Federal Regulations published by the Office of the Federal Register, National Archives and Records Administration. They are also available from the Department.

**Keywords**

buildings; energy conservation; energy efficiency; energy;

**DEPARTMENT OF ENERGY**

DEFENSE PROGRAMS, ASSISTANT SECRETARY

DOE, DP-13.1  
Washington, DC 20545  
(301) 353-3169

**Authority**

- (1) The Atomic Energy Act of 1954
- (2) Energy Reorganization Act of 1974
- (3) Department of Energy (DOE) Reorganization Act of 1977

**Implementation**

The implementation of standards activities for Defense Programs is through the policy statement of the Assistant Secretary for Defense Programs (ASDP) dated May 28, 1982, and the individual implementation plans prepared by the DOE field organizations. Responsible program officials also involve the use of standards noted under qualification, certification, or calibration.

**Application**

Standards are developed and used to support technologies and applications unique to DOE particularly in the Department's defense-related processing and production facilities. Current activities include development of standards for qualifying backup power sources prior to their use in DOE facilities, performing accident analysis of an aircraft crash into a DOE hazardous facility, and preparing safety evaluation reports on the review of DOE nonreactor nuclear facility safety analysis reports.

**Standards  
Qualification,  
or Calibration**

DOE-STD-1003-94, Backup Power Sources for DOE Facilities, is a standard that identifies fundamental criteria, surveillance testing, reporting, and reliability program considerations, which if properly implemented, should improve and maintain capable and reliable backup and emergency power sources (i.e., diesel generators, uninterruptible power supplies, and stationary batteries).

DOE-HDBK-1084-95, DIE Primer on Lead-Acid Storage Batteries, is a handbook that complements the above standard that was prepared and reviewed by the DOE Backup Power Working Group and promulgated by the DOE Office of Environment, Safety and Health. This working group plans to update the handbook in 1996.

Two DOE Specifications for use in purchasing stationary battery systems for use at typical DOE facilities are in a final comment coordination process.

The draft standard for accident analysis of aircraft crashes into DOE hazardous facilities will provide a uniform methodology, input parameter, and major assumptions as well as guidance for consequence calculations and approaches for predicting structural response. This standard will afford the user sufficient information to evaluate and assess the significance of aircraft crash risk on facility safety.

The draft standard entitled Guideline for Review and Approval of Nonreactor Nuclear Facility Safety Analysis Reports will provide the process by which safety analysis reports in DOE should be reviewed and details on the format and content of the safety evaluation report that documents the review and approval process.

**Standardization  
Activities**

The DOE Backup Power Working Group meets twice annually to review best practices and lessons learned, discuss related industry standards, attend training and other presentation sessions, and tour representative backup power sources at DOE sites. The knowledge and experience of the group is documented and disseminated in the form of DOE standards, handbooks, and specifications. Membership includes representatives from most DOE site M&Os, some DOE HQ, and some DOE field offices.

**Availability**

The above referenced standards were developed and are maintained internal to the Department.

**Keywords**

backup power sources; lead-acid storage batteries; uninterruptible power supplies; stationary batteries; accident analysis; aircraft crash; consequence calculation; structural response; nonreactor nuclear facility; safety analysis report; safety evaluation report;



ENERGY INFORMATION ADMINISTRATION

Office of Statistical Standards (EI-70)  
1000 Independence Avenue, SW  
Washington, DC 20585-0670  
(202) 426-1068  
e-mail: ybishop@eia.doe.gov  
WWW: eia.doe.gov

**Authority** Both the Federal Energy Administration Act and the Department of Energy Organization Act, which established the Energy Information Administration (EIA) as an independent statistical agency, require that the information collected by the agency be evaluated and assessed internally and that the collection methods used be audited. (See P.L. 93-275 and 95-91).

**Implementation** To evaluate the data and procedures used to collect, process and publish the data, performance standards are needed. A standards program has existed since EIA's inception; however, in 1981 it was reorganized, resulting in the adoption of 19 standards and two orders on model documentation and model archiving.

**Application** Standards implementation is monitored by the Office of Statistical Standards (OSS) through the various activities of the office, including the forms clearance process, pre-publication reviews, state-of-the-data reports, quality audits, and documentation reviews of data collection and processing systems.

OSS monitors order implementation through reviews of the documentation and model archival packages prior to release, and quality audits.

**Committee Activity** OSS participates in pertinent committees of the Office of Management and Budget (OMB), the American Statistical Association, and other statistical organizations.

**Standardization Activities** Thirty standards have been developed covering various aspects of data collection, data processing, forecasting, and dissemination. They are divided into the following groups: models interagency, data systems, data collection, and data presentation. Specific standards cover: model acceptances, documentation, and archival; the adoption of Federal Information Processing and OMB standards; standardized codes, abbreviations, and acronyms; contract clauses for data collection and processing; data systems development and documentation; nonresponse handling; respondent contact records; batch entry procedures; edit message handling;



survey performance statistics; publication of energy statistics, revisions and estimates; data accuracy; graphs; nondisclosure; rounding ;freezing data files; and documentation of public use tapes and diskettes.

These mandatory standards are intended to ensure the quality and consistency of EIA's data and models, increase the efficiency and responsiveness to EIA's data users, and avoid duplication of effort.

These standards will be modified and new ones developed as conditions warrant. The primary focus is on ensuring compliance with the existing standards and providing technical assistance to offices requesting it.

**Availability** Energy Information Administration, Office of Statistical Standards  
(address above)

**Keywords** statistics; data collection; data processing; data documentation; model documentation; data publication; model forecasting; energy; model acceptance, documentation, archival;

## DEPARTMENT OF ENERGY

### ENVIRONMENT, SAFETY, AND HEALTH

Safety and Quality Assurance  
Rm 7A-097  
1000 Independence Avenue, SW  
Washington, DC 20585  
(202) 586-4710

**Authority** (1) Atomic Energy Act of 1954, as amended  
(2) Energy Reorganization Act of 1974  
(3) Department of Energy Organization Act of 1977

**Implementation** Prescribed and recommended Environment, Safety, and Health (ES&H) standards (approximately 300) are listed in Order DOE 5480.4, Attachments 1,2 and 3.

**Application** Department of Energy (DOE) Headquarters ES&H program personnel appraise DOE field operations and contractors to evaluate conformance with the prescribed ES&H standards. DOE field operations personnel also evaluate DOE contractors to ascertain compliance with the standards. As appropriate, recommendations for improved conformance are made and ameliorative actions are implemented.

<b>Adoption of Nongovernment Standards</b>	Approximately 65 nongovernment ES&H standards have been adopted as prescribed standards and approximately 135 nongovernment ES&H standards have been adopted as recommended standards. These are primarily from ANSI, NFPA, IEEE, and ANS.
<b>Committee Activity</b>	American National Standards Institute, American Nuclear Society, and National Fire Protection Association
<b>Standardization Activities</b>	Adoption of appropriate voluntary standards for use in DOE activities.
<b>Availability</b>	U.S. Department of Energy Office of Worker Health and Safety EH-53/270CC 19901 Germantown Road Germantown, MD 20874
<b>Keywords</b>	environment; safety; health; nuclear; occupational; emergency; fire; transportation; reactor; explosives; energy;

## DEPARTMENT OF ENERGY

### TECHNICAL STANDARDS PROGRAM OFFICE

DOE, EN-31  
19901 Germantown Road  
Germantown, Maryland 20874  
(301) 903-2856 FAX: (301) 903-8693  
e-mail: richard.serbu@hg.doe.gov  
WWW: <http://apollo.osti.gov/html/techstds/techstds.html>

<b>Authority</b>	(1) Atomic Energy Act of 1954, as amended (2) Energy Reorganization Act of 1974 (3) Department of Energy Organization Act of 1977
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<b>Implementation</b>	DOE Order 1300.2A provides for a coordinated DOE-wide standardization program for the development and application of standards; participation in nongovernment standards bodies; and effective management to promote consistent standards application, avoid duplication, share information, and enhance standards availability. DOE has developed 58 technical standards for its unique applications and 34 handbooks to record lessons learned. These are listed in the DOE Standards Index, DOE-TSL-1.
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Application	<p>The focus of DOE's Technical Standards Program is adherence to appropriate nongovernment standards in the design, construction, testing, modification, operation, decommissioning, decontamination, and remediation of DOE's facilities and activities. Standards proven through years of experience and accepted by professional and technical societies are used wherever applicable. No matter how carefully conceived and properly developed, technical standards cannot address all eventualities, therefore, DOE employees and contractors critically assess the standards in use at DOE facilities to ensure that they remain consistent with the latest information arising from operational experience and developments in science and technology. Where standards do not exist or where existing standards do not suffice, appropriate DOE standards are developed and adopted.</p>
Adoption of Nongovernment Standards	<p>DOE has adopted more than 800 nongovernment standards. These are listed in the DOE Standards Index, DOE-TSL-1.</p>
Committee Activity	<p>More than 800 DOE and contractor personnel participate in the standardization activities of more than 4000 committees of 64 nongovernment standards organizations.</p>
Standardization Activities	<p>Development and adoption of technical standards is vested in DOE Field Offices. Standards Managers working through Preparing Activities, Adoption Activities, and standing committees of technical experts apply, develop, and maintain the standardization program in their technical areas of responsibility. Overall management and guidance is provided by the DOE Technical Standards Management Committee.</p>
Availability	<p>Copies of DOE standards, handbooks, specifications, and technical standards lists (TSLs) are available for DOE employees, DOE contractors, and laboratories from:</p> <p>Office of Scientific and Technical Information (OSTI)  P.O. Box 62  Oak Ridge, Tennessee 37831  (423) 576-8401  FAX (423) 576-2865</p> <p>Others may obtain copies of these documents from National Technical Information Service, Information Handling Services, and Global.</p> <p>The TSLs, many DOE standards, and the monthly DOE publication Standards Actions are available on-line at the WWW site listed above.</p>

**Keywords**

products; equipment; processes; materials; systems;  
construction; maintenance testing; operation; decommissioning;  
nuclear; safety; environment;

**ENVIRONMENTAL PROTECTION AGENCY****ADMINISTRATOR**

401 M Street, SW  
Washington, DC 20460  
(202) 260-2897

FAX: (202) 260-1847

**Authority**

- (1) Clean Air Act, P.L. 88-206
- (2) Clean Water Act, P.L. 92-500
- (3) Comprehensive Environmental Response Compensation and Liability Act (CERCLA), P.L. 96-510
- (4) Federal Food, Drug and Cosmetic Act, Stat. 1040
- (5) Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), P.L. 92-516
- (6) Marine Protection, Research and Sanctuaries Act, P.L. 92-532
- (7) Resource Conservation and Recovery Act (RCRA), P.L. 94-580
- (8) Safe Drinking Water Act, P.L. 93-523
- (9) Toxic Substances Control Act (TSCA), P.L. 94-469
- (10) Uranium Mill Tailings Radiation Control Act, P.L. 95-604
- (11) Plus amendments thereto and other acts not listed
- (12) National Environmental Policy Act, (P.L. 91-190)
- (13) Noise Control Act, (P.L. 92-574)
- (14) Medical Waste Tracking Act, (P.L. 100-582)
- (15) Asbestos Hazard Emergency Response Act, (P.L. 99-519)
- (16) Asbestos Information Act, (P.L. 100-577)
- (17) Asbestos School Hazard Abatement Act, (P.L. 98-377)
- (18) Indoor Radon Abatement Act, (P.L. 100-551)

**Implementation**

Environmental Protection Agency (EPA) standards are published in Part 40 of the Code of Federal Regulations (40 CFR). Some standards are mandatory, others voluntary. State and local governments usually have the right to impose standards that are more stringent than those EPA sets.

**Application**

Standards are applied in various ways including individual permits establishing emissions or effluent limits, product registration, state and local implementation plans, direct reporting to EPA, recordkeeping, on-site inspections, voluntary adoption, etc.

Adoption of Nongovernment Standards	40 CFR refers readers to nongovernmental standards it accepts in lieu of incorporating the standards in the CFR.
Qualification, Certification, or Calibration	EPA samples products and the environment for compliance with its standards. Examples include monitoring motor vehicle emissions, wastewater discharges, new chemicals and pesticides, land fills, ambient air, and drinking water systems. The Agency also reviews manufacturers' requests to label products as "certified to EPA standards."
Committee Activity	Advisory Commission on Intergovernmental Relations; Council on Environmental Quality; Interagency Testing Committee (ITC); National Air Pollution Control Techniques Advisory Committee; National Drinking Water Advisory Council; Environmental Committee of the Organization for Economic Cooperation and Development; Science Advisory Board; U.S. Canada International Joint Commission (on air and water); Stratospheric Ozone Protection Advisory Committee; Volatile Organic Chemical Equipment Leak Rule Negotiated Rule Making Committee; Biotechnology Science Advisory Committee; FIFRA Scientific Advisory Panel;
Standardization Activities	EPA environmental standards apply to individuals; businesses; federal, state and local governments; and other organizations. They are intended to ensure clean air and water, safe containment of toxic wastes, protection from excessive radiation, protection of the Nation's waters for fish/wildlife and human use, undue exposure to toxic substances, etc. The following offices are directly involved in standards development and application: Office of Air Radiation, (202)382-7400; Office of Pesticides and Toxic Substances, (202)382-2902; Office of Research and Development, (202)382-7676; Office of Solid Waste and Emergency Response, (202)382-4610; Office of Water, (202)382-5700. These Offices exercise responsibility for standards dealing with water quality, solid and hazardous wastes, pesticides and toxic substances, ambient air, research and development practices, and radiation. The Administrative Procedures Act mandates publication of proposed rules (standards) followed by public comment/ hearings prior to promulgating the rule. Usually, once a standard is set, states and other jurisdictions must submit, by a certain date, implementation plans for meeting these standards or face the alternative of having EPA write and impose its own plan.



**Availability** Part 40 of the Code of Federal Regulations, available from the Government Printing Office, contains all Agency standards; EPA also publishes both the standards and resulting implementation plans in the Federal Register.

**Keywords** environment; air; water; radiation; pollution; toxic substances; hazardous waste; pesticides; chemicals; materials; sanitation;

**EXECUTIVE OFFICE OF THE PRESIDENT**

**OFFICE OF THE U.S. TRADE REPRESENTATIVE**

Office of World Trade Organization (WTO) and  
Multilateral Affairs Room 513  
600 Seventeenth Street, NW  
Washington, DC 20508  
(202) 395-3063 FAX: (202) 395-3911

**Authority** Title IV of the Trade Agreements Act of 1979 (P.L. 96-39, July 26, 1979) and the Uruguay Round Agreements Act (PL 103-465) on approval of the Agreements on Technical Barriers to Trade and on the Application of Sanitary and Phytosanitary Measures which sets forth disciplines on standards related activities. USTR does not itself develop standards, test methods or rules of certification.

**Implementation** Through the Trade Policy Committee structure, chaired by the Office of the U.S. Trade Representative (USTR), U.S. Government coordination of the implementation and administration of the WTO Agreements on Technical Barriers to trade and on the application of Sanitary and Phytosanitary measures is achieved. USTR works primarily with the Departments of Agriculture, Commerce, and State in this area.

**Application** The U.S. Trade Policy Staff Committee (TPSC) Subcommittee on Standards meets regularly to approve U.S. positions for meetings of the WTO Committees on Technical Barriers to Trade and Sanitary and Phytosanitary Measures. The TPSC also approves positions for bilateral standards related discussions with governments which are WTO signatories.

**Adoption of  
Nongovernment  
Standards** USTR coordinates with the private sector through an extensive advisory committee structure including, in particular, the Industry Functional Advisory Committee on Standards (IFAC 2). The Trade Policy Staff Committee (TPSC) Subcommittee on Standards is the primary vehicle for coordination of trade policy within the U.S. government.

Qualification, Certification, or Calibration	USTR coordinates closely with nongovernmental bodies directly and through IFAC 2.
Committee Activity	USTR directly participates in the Board of the American National Standards Institute and its International Advisory Committee.
Keywords	international trade; business; general; WTO; TBT; phytosanitary; sanitary; standards code;

## FEDERAL COMMUNICATIONS COMMISSION

### OFFICE OF ENGINEERING AND TECHNOLOGY

2000 M Street, NW  
Suite 480  
Washington, DC 20554  
(202) 418-2470 FAX: (202) 418-1944  
e-mail: rmsmith@fcc.gov

Authority	The Communications Act of 1934, as amended (47 U.S.C. 151) established the Federal Communications Commission (FCC) for the purpose of regulating interstate and foreign commerce in communications by wire and radio in the public interest.
Implementation	The FCC Rules and Regulations are contained in Title 47 Code of Federal Regulations. Relevant standards are located throughout the various rule Parts 0 to end. Information on proposed and adopted standards is published in the Federal Register in Notices of Inquiry, Notices of Proposed Rule Making, Report and Orders, and Memorandum Opinion and Orders.
Application	Standards are applied to a wide variety of communications equipment and services. Because there are many different types of standards throughout the FCC rules, various methods are used to enforce the rules or standards. The methods used are: on-site inspections, FCC laboratory testing, review of test data submitted by applicants, and self verification.
Adoption of Nongovernment Standards	The Commission has adopted nongovernment standards and will continue to do so whenever it is in the public interest. These Standards are referenced in the appropriate parts of the rules, and in many cases voluntary standards become mandatory standards when referenced in the Rules and Regulations.

Qualification, Certification, or Calibration	Applicants wishing to establish a radio station, whether it be broadcast, private, common carrier, or experimental, must submit information showing compliance with FCC Rules. If the requirements (standards) are met, a license is issued. The Commission has issued in excess of 3 million radio licenses. The Commission also has equipment authorization programs and issues approximately 6000 equipment approvals each year.
Committee Activity	The Commission participates in pertinent organizations and committees which deal with telecommunications standards. Some of these are: Institute of Electrical and Electronics Engineers, American National Standards Institute, Telecommunications Industry Association, Intelligent Transportation Society of America, International Telecommunication Union, International Special Committee on Radio Interference, Radio Technical Commission for Aeronautics, Radio Technical Commission for Maritime Services, Inter-American Telecommunication Commission, National Marine Electronics Association, Allied Radio Frequency Association, International Maritime Organization, etc.
Standardization Activities	The Commission participates in international and national standards organizations developing communication systems and equipment. The Commission provides technical analysis and testing of systems and equipment.
Availability	Title 47 of the Code of Federal Regulations available from the U.S. Government Printing Office.
Keywords	frequency allocations; radio frequency interference; electro-magnetic compatibility; communications;

#### FEDERAL TRADE COMMISSION

BUREAUS OF COMPETITION (BC) AND CONSUMER PROTECTION (BCP)

Licensed Occupations, BC, or Service Industry Practices, BCP  
Washington, DC 20580

(202) 326-2904 (BC)  
(202) 326-3297 (BCP)

<b>Authority</b>	Federal Trade Commission Act, S5, 15 U.S.C. S45. Section 5 of the Federal Trade Commission Act declares unfair methods of competition, and unfair or deceptive acts and practices, in or affecting commerce, to be unlawful.
<b>Adoption of Nongovernment Standards</b>	In preventing unfair or deceptive acts or practices in commerce, the Federal Trade Commission (FTC) may reference standards in trade regulation rules or guides. For example, the Commission incorporated several nongovernment standards by reference in its rule relating to labeling and advertising of home insulation (R-value rule, 16 CFR, part 460).
<b>Standardization Activities</b>	The Commission's Bureau of Competition (BC) and Bureau of Consumer Protection (BCP) investigate standards and certification activities that may unreasonably result in a substantial lessening of competition in violation of the Federal Trade Commission Act. One example would be allegations that a standard or a seal of approval program unreasonably excluded innovative products from the marketplace. They would also investigate allegations that standards or seals of approval are being used deceptively in the sale of products. If the Commission finds reason to believe that the law may have been violated, it may commence a law enforcement action to enjoin such anti-competitive or deceptive activities and to seek such other relief as may be appropriate. The Commission may, under appropriate circumstances: issue advisory opinions as to the legality of standards or certification practices presented for review; participate in relevant interagency or intergovernmental committees; present its views to appropriate legislative, judicial, or industry entities concerning specific standards or certification issues.
<b>Keywords</b>	antitrust; restraint of trade; anti-competitive practices; competition; unfair methods; innovation; deception; business; general;

#### GENERAL SERVICES ADMINISTRATION

INFORMATION RESOURCES MANAGEMENT  
18th and F Streets, NW  
Washington, DC 20405  
(202) 566-1180

<b>Authority</b>	<ol style="list-style-type: none"> <li>1. Public Law 89-306: The Brooks Act</li> <li>2. Public Law 99-500: The Paperwork Reduction Reauthorization Act of 1986</li> </ol>
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**Implementation**

The Federal Information Resources Management Regulation (FIRMR) establishes Federal Standards provisions and requirements for the acquisition of ADP and telecommunications resources. The Federal ADP and Telecommunications Standards Index provides terminology to incorporate standards in solicitation documents. It also provides a catalogue of all American National Standards (ANSI), Federal Information Processing Standards (FIPS), and Federal Standards (FED-STD).

**Application**

Federal acquisition of ADP and Telecommunications resources must be in compliance with established Federal Standards provisions of the FIRMR.

**Committee**

The GSA is an active voting member of the X3:

**Activity**

Information Processing System; ANSI: Standards Committee T1, Telecommunications; Federal Telecommunications Standards Committee; and ANSI Information Systems Standards Board.

**Standardization****Activity**

The GSA serves as a focal point for the Government-wide Federal Information Processing and Telecommunications Standards Program. GSA participates directly in the development of federal standards, and develops terminology to incorporate standards in solicitation documents for acquisition and use of ADP and telecommunications resources. GSA provides advice and assistance to federal agencies and private sector personnel on information systems and telecommunications standards.

**Availability**

The Federal ADP and Telecommunications Standards Index is sold by the Government Printing Office.

**Keywords**

information processing; telecommunications; terminology;

**GENERAL SERVICES ADMINISTRATION****NATIONAL ARCHIVES AND RECORDS ADMINISTRATION**

Policy and IRM Services (PIRM)

Room 4200

8601 Adelphi Road

College Park, MD 20740

(301) 713-6400

FAX: (301) 713-6497

**Authority**

44 U.S.C. 2101 et seq., April 1, 1985, the Archivist of the United States shall provide for the preservation of federal records of continuing value. As provided in 44 U.S.C. chapters 29 and 33, the Archivist of the United States is authorized to establish standards for "the selective retention of records of continuing value" and for the "reproduction of records by photographic or microphotographic processes."



Implementation	Standards for managing records of different media are codified in National Archives and Records Administration (NARA) regulations as follows: microfilm records, 36 CFR, Part 1230, Subpart C; audiovisual records, 36 CFR, Part 1232; and electronic records, 36 CFR, Part 1234, Subpart C.
Application	NARA requires agencies to produce and maintain microfilm, audiovisual, and electronic records according to production and maintenance standards.
Adoption of Nongovernment Standards	NARA has adopted standards for microfilm and audio-visual records promulgated by the American National Standards Institute (ANSI), International Organization for Standards (ISO), Association for Information and Image Management (AIIM), and the National Fire Protection Association (NFPA).
Qualification, Certification, or Calibration	Agencies are to certify that the permanent microfilm and audiovisual records they produce meet ANSI/AIIM standards and that storage facilities for audiovisual records meet NFPA standards.
Committee Activity	NARA participates in the following pertinent standards setting organizations: American Society for Testing and Materials (ASTM) Committee on Binding Adhesives; ASTM Committee D-6 on Recycled Paper; ANSI/AIIM Committees 20 and 21; Audio Engineering Society Subcommittee (SC) 3 on Audio Preservation and Restoration; ANSI/National Association of Photographic Manufacturers (NAPM) Image Technology (IT) Standards Committee 9; ANSI/NAPM IT9-1 Subcommittee on Stability of Wet-Processed Silver Images; ANSI/NAPM IT9-2 Subcommittee on Stability of Photographic Prints; ANSI/NAPM IT9-2 Subcommittee on Storage of Plates, ANSI/NAPM IT9-3 Subcommittee on Stability of Colored Images; ANSI/NAPM IT9-5 Subcommittee on Stability of Optical and Electronic Media; and NFPA Technical Committee on Records Protection.
Standardization Activities	In recent years, NARA staff members have participated in the development of voluntary standards, either as members of standards setting committees or as reviewers of drafts of various standards. NARA has adopted five of these voluntary standards: ANSI/NAPM IT9.16-1993, Imaging Media-Photographic Activity Test; ANSI/NAPM IT 9.17-1993, ISO 417, Photography-Determination of Residual Thiosulfate and Other Related Chemicals in Processed Photographic Materials-Methods Using Iodine-Amylose, Methylene Blue, and Silver Sulfide. ANSI/NAPM IT9.19-1994, Imaging Media (Film), Thermally Processed Silver Microfilm - Specifications for Stability; ANSI/NISO/Z 39.62-1994, Eye Legible Information on Microfilm Leaders and Trailers and on Containers of Processed Microfilm on Open Reels; and ANSI/AIIM/MS 45-1990, Recommended Practice for Inspection of Stored Silver Gelatin Microfilms for Evidence of Deterioration.

NARA has also prepared guidance for federal agencies regarding the use of Compact Disc-Read Only Memory (CD-ROM) and optical disk systems to store federal records. The guidance states that CD-ROM files that will be transferred to NARA as permanent records should be in conformance with ISO 9660 standards and the American Standard Code for Information Interchange (ASCII) standard as defined in the Federal Information Processing Standard 1-2 (11/14/84). NARA has also revised its regulations on audiovisual records management to include citations to ANSI/ISO and NFPA standards for storage conditions.

**Availability**

NARA's regulations, which may be found in 36 CFR, chapter 12, and which cite NARA's use of voluntary standards, are available from the Superintendent of Documents.

**Keywords**

permanent records; archives; preservation; micro-graphics; photography; audiovisual records; electronic records; optical disk; magnetic tape; film; paper; data; data exchange;

**GENERAL SERVICES ADMINISTRATION**

OFFICE OF ACQUISITION

FSS Acquisition Management Center  
Crystal Mall, Building 4  
Washington, DC 20406  
(703) 305-6930

FAX: (703) 305-6851

**Authority**

The Federal Standardization Program was developed in compliance with the Federal Property and Administrative Services Act of 1949, 63 STAT. 377, as amended. The program provides for coordination of civil and military standardization functions, so as to avoid unnecessary duplication, pursuant to the Act and in consonance with the Defense Cataloging and Standardization Act (Secs. 2451-2456, Title 10, U.S.C., superseding P.L. 436).

**Implementation**

41 CFR 101-29 describes the standardization program under Federal Product Descriptions. The FSS is responsible for 550 Federal Specifications, 35 Federal Standards, and 1450 Commercial Item Descriptions. More than 800 nongovernment standards have been adopted.

Application	Federal product descriptions shall be used by all federal agencies in the procurement of supplies and services covered by such descriptions, except as provided in 41 CFR 101-29.402 and 41 CFR 101-29.403.
Adoption of Nongovernment Standards	The General Services Administration has adopted more than 800 nongovernment standards. The majority of these are invoked by reference in the federal specifications, federal standards and commercial item descriptions authored by GSA.
Qualification, Certification, or Calibration	The General Services Administration (GSA) Office of Quality and Contract Administration handles the inspection and testing, as necessary, of supplies procured under GSA contracts. Through the five regional control divisions and the one regional laboratory, this program provides assurance that material supplied is in compliance with contract specifications.
Committee Activity	GSA employees participate in a number of standards developing bodies. These organizations include committees of ANSI, ASTM, and SAE.
Standardization Activities	<p>GSA is responsible for establishing policies and procedures, in coordination with other agencies, for the preparation, coordination, approval, issuance, and maintenance of product descriptions in the federal series.</p> <p>FSS issues and maintains, on a current status, the Federal Standardization Manual. The Manual sets forth operating procedures and applicable definitions used in the development of federal product descriptions.</p> <p>FSS also promulgates and maintains, on current status, the Index of Federal Specifications, Standards, and Commercial Item Descriptions. The Index lists federal product descriptions which have been printed and distributed, including those which are mandatory for use by all federal agencies and identifies the sources from which these documents may be obtained. There are approximately 10 000 federal product descriptions in use, of which 75 percent have been assigned to other agencies.</p>
Availability	General Services Administration, Federal Supply Service Bureau, Specification Section, suite 8100, 470 L'Enfant Plaza, SW, Washington, DC, 20407.

<b>Keywords</b>	federal product descriptions; standards; specifications; commercial item descriptions; qualified products lists; nongovernment documents; general;
<b>GENERAL SERVICES ADMINISTRATION</b>	
	<b>PUBLIC BUILDING SERVICE</b>
	Eighteenth & F Streets, NW Room 7313 Washington, DC 20405 (202) 501-0191
<b>Authority</b>	The Architectural Barriers Act of August 12, 1968, (Public Law 90-480, 1976 amendment, Public Law 94-541)
<b>Implementation</b>	The General Services Administration is required as one of the four standard setting agencies, to "prescribe standards for the design construction, and alteration of buildings (other than residential structures subject to this Act and buildings, structures, and facilities of the Department of Defense and of the United States Postal Service subject to this Act) to ensure whenever possible that physically disabled persons will have ready access to, and use of, such buildings.
<b>Application</b>	The General Services Administration, (GSA) issued PBS, PCD, Design Guide 6, GSA Accessibility standard, on October 14, 1980. GSA and the Department of Housing and Urban Development, the Department of Defense, and the United States Postal Service jointly published the Uniform Federal Accessibility Standards on August 7, 1984 which sets standards to ensure that certain buildings financed with Federal Funds are so designed and constructed as to be accessible to the physically handicapped.
<b>Adoption of Nongovernment Standards</b>	After passage of the Architectural Barriers Act, GSA adopted "Specifications for Making Building and Facilities Accessible to, and Usable by, the Physically Handicapped" ANSI/CABO A117.1.
<b>Committee Activities</b>	GSA is a member of the Architectural and Transportation Barriers Compliance Board and the Council of American Building Officials Committee on Accessibility, 1331 F Street, Suite 1000, Washington, DC 20004-1111, (202) 272-5434
<b>Standardization Activities</b>	GSA develops, publishes and updates accessibility standards to ensure that all building designs, constructed, altered, increased by an addition, or leased with federal funds are accessible and usable by disabled individuals. The Administrator also has the authority to waive or modify those standards on a case-by-case basis.



**Availability** The Uniform Federal Accessibility Standards are available, free of charge from GSA or the Architectural and Transportation Barriers Compliance Board.

**Keywords** building; construction; general; social welfare; access; physically disabled;

## HEALTH AND HUMAN SERVICES

### CENTER FOR DISEASE CONTROL

National Institute for Occupational Safety and Health  
Hubert H. Humphrey Building  
200 Independence Avenue, SW  
Washington, DC 20201  
(202) 401-6997

- Authority**
- (1) 29 U.S.C. 651-678, December 29, 1970, Occupational Safety and Health Act (OSH Act), to assure safe and healthful conditions of working men and women; by authorizing enforcement of standards developed under the OSH Act; and for other purposes.
  - (2) 30 U.S.C. 801, 811, 842(h), December 30, 1969, Federal Coal Mine Health and Safety Act of 1969, as amended by the Federal Mine Safety and Health Act of 1977, to protect the health and safety of miners.

**Implementation**

Recommended Occupational Safety and Health Standards -- developed by the National Institute for Occupational Safety and Health (NIOSH) Division of Education and Development, 4676 Columbia Parkway, Cincinnati, Ohio 45202, telephone (513) 684-8302. Approximately 125 nonmandatory standards have been developed in the form of criteria documents dealing with control of toxic substances in the workplace. These criteria documents are submitted by NIOSH as recommendations to the Department of Labor (DOL) for use in the development of mandatory standards by DOL's Occupational Safety and Health Administration and DOL's Mine Safety and Health Administration.

Performance Standard for Respirators -- developed by NIOSH's Division of Safety Research, Testing, and Certification Branch, 944 Chestnut Ridge Road, Morgantown, West Virginia 26505, telephone (504) 923-4595. A mandatory standard under 30 CFR, Part 11 establishes a performance standard and the procedures for testing and certifying personal protective respiratory equipment.



Application	The Department of Labor is responsible for the promulgation and enforcement of occupational health and safety standards.
Qualification, Certification or Calibration	NIOSH's Division of Safety Research's Testing and Certification Branch is responsible for testing and certifying personal respiratory protective equipment based upon applications submitted by the manufacturers of such equipment.
Standardization Activities	NIOSH employees actively participate in voluntary standard development activities of ANSI, ASTM, and American Conference of Governmental Industrial Hygienists (ACGIH).
Keywords	respiratory protective equipment; toxic substances; workplace standards; safety; public health;

## HEALTH AND HUMAN SERVICES

### FOOD AND DRUG ADMINISTRATION

Office of Policy HF-23  
 5600 Fishers Lane  
 Rockville, Maryland 20857  
 (301) 827-3344

Authority	<p>Federal Food, Drug, and Cosmetic Act, as amended (21 U.S.C. 321-392)</p> <p>Public Health Service Act, as amended (42 U.S.C. 262, 263, 263b-263n, and 361), (42 U.S.C. 264 and 13951)</p> <p>Fair Packaging and Labeling Act (15 U.S.C. 1451-1461)</p> <p>Federal Import Milk Act (P.L. 69-625)</p> <p>Tea Importation Act (21 U.S.C. 41-50)</p> <p>Federal Caustic Poison Act (Note: Section 19 of the Federal Hazardous Substances Act (15 U.S.C. 401) repealed the Federal Caustic Poison Act except for any "dangerous caustic or corrosive substance" as defined by the Federal Caustic Poison Act which is subject to the Federal Food, Drug, and Cosmetic Act and not a "hazardous substance" under the Federal Hazardous Substances Act.)</p>
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Orphan Drug Act (P.L. 97-414)

Drug Price Competition and Patent Term Restoration Act (P.L. 98-417)

Drug Exports Amendments Act of 1986 (P.L. 99-660)

Prescription Drug Marketing Act of 1987 (P.L. 100-293)

Anti-Drug Abuse Act of 1988 (P.L. 100-690)

Saccharin Study & Labeling Act

Federal Anti-Tampering Act

## Implementation

The Food and Drug Administration (FDA) Center for Food Safety and Applied Nutrition, 200 C Street SW., Washington DC 20204, (202) 205-4850, is responsible for:

- Color Additives -- Regulations under 21 CFR, Parts 73, 74, and 82 prescribe identity, specifications, and other conditions under which color additives may be safely used in food, drugs, cosmetics, and devices.
- Food Additives -- Regulations under 21 CFR, Parts 172-179 prescribe identity, specifications, and other conditions under which food additives may be safely used.
- GRAS Substances -- Regulations under 21 CFR, Parts 184 and 186 prescribe identity, specifications, and other conditions under which substances are generally recognized as safe (GRAS) as ingredients added directly or indirectly to human food.
- Food Standards -- Regulations under 21 CFR, Parts 131 through 169 prescribe standards of identity, quality, and fill of container for 21 different classes of foods. Most of these are standards of identity which specify the basic composition of the food.
- Other Food Regulations -- A number of other miscellaneous mandatory regulations concerning food for human consumption appear under 21 CFR, Subchapters A, B, and L (e.g., general labeling requirements under Subpart B of 21 CFR, part 1;

food labeling under 21 CFR, Part 101; 21 CFR Part 104 Nutritional Quality Guidelines for Food; quality standards for foods with no standards of identity under 21 CFR, Part 103; infant formula quality control procedures under 21 CFR, Part 105; Foods for Special Dietary Uses under 21 CFR, Part 105; regulations under the Federal Import Milk Act (21 CFR, Part 1210); and Interstate Conveyance Sanitation (21 CFR, Part 1250); Emergency Permit Control under 21 CFR, Part 108; Unavoidable Contaminants in Foods under 21 CFR, Part 110; Good manufacturing Practices in Human Food under 21 CFR, Part 110; Thermally Processed Low-acid foods under 21 CFR, Part 113; Acidified foods under 21 CFR, Part 114; Processing and Bottling of Bottles Drinking Water under 21 CFR, Part 129.

- Cosmetic Regulations -- Regulations under 21 CFR, Parts 701 and 740 prescribe standards for cosmetic labeling.
- Federal Caustic Poison Act -- Regulations under 21 CFR, Part 1230 prescribe labeling requirements, methods of analysis, and other conditions for enforcement of the Federal Caustic Poison Act.

FDA's Center for Drug Evaluation and Research, 1451 Rockville Pike, Rockville, Maryland 20852, (301) 594-6740 and Center for Biologics Evaluation and Research, 1401 Rockville Pike, Rockville, Maryland 20852, (301) 827- 0372, develop standards and regulations for:

- Biological Products Applicable to the Prevention, Treatment or Cure of Diseases or Injuries of Man --In addition to the regulations at 21 CFR Subchapter C and D that apply to all products, including biological products, that are applicable to the prevention, treatment or cure of diseases or injuries of man (drug products), mandatory regulations for biological products exist at Subchapter F.
- Insulin and Antibiotics -- Regulations under 21 CFR, Parts 429-460 prescribe standards, tests, and methods of assay for insulin and antibiotic drugs. In the near future many of these regulations are expected to be eliminated.
- Over-the-Counter (OTC) Drugs -- 21 CFR, Parts 331, 332, 333, 336, 338, 340, 341, 344, 349 and 357 prescribe specifications and conditions under which therapeutic categories of OTC drugs are generally recognized as safe and effective. Regulations under 21 CFR Part 310 describe conditions under which certain therapeutic categories of OTC drugs are not generally recognized as safe and effective.

- Biological Product -- Regulations appear under 21 CFR, Subchapter F concerning labeling, standards, testing, and other conditions under which bacterial and viral vaccines, toxoids, antitoxins, blood, and blood derivatives, allergenic products, and other biological products can be safely used.
- Control of Communicable Diseases -- Regulations under 21 CFR, Part 1240 concern control of communicable diseases.

FDA's Center for Devices and Radiological Health, Office of Science and Technology, 2094 Gaither Road, Rockville, Maryland 20850, (301) 594-4765, prepares:

- Procedures for Performance Standards Development -- Regulations under 21 CFR, Part 861 prescribe the procedures for initiation, development, establishment, amendment, and revocation of performance standards applicable to devices intended for human use.
- Device Classification Procedures -- Regulations under 21 CFR, Part 860 prescribe the criteria and procedures governing the classification and reclassification of devices intended for human use into one or more of three regulatory classes: class I (general controls), class II (special controls), and class III (premarket approval).
- Device Classification Regulations -- FDA is developing mandatory regulations to classify all medical devices intended for human use into one or more of these three classes depending upon the regulatory controls needed to provide reasonable assurance of their safety and effectiveness. Device classification regulations appear under 21 CFR, Parts 864-892.
- Other Device Regulations -- A number of other miscellaneous mandatory device regulations appear under 21 CFR, Subchapter H (e.g., general labeling requirements under 21 CFR, Part 801; exemptions from federal preemption of state and local medical device requirements under 21 CFR, Part 808; in vitro diagnostic products for human use under 21 CFR, Part 809; investigational device exemptions under 21 CFR, Part 812; and investigational exemptions for interocular lenses under 21 CFR, Part 813).
- Performance Standards for Ionizing Radiation Emitting Products -- Regulations under 21 CFR, Part 1020 prescribe standards to control the emission of radiation from microwave ovens.

- Performance Standards for Light Emitting Products -- Regulations under 21 CFR, Part 1040 prescribe standards to control the emission of radiation from lasers, sunlamps, and other light-emitting products.
- Performance Standards for Sonic, Infrasonic, and Ultrasonic Radiation-Emitting Products -- Regulation under 21 CFR, Part 1050 prescribes standards to control the emission of radiation for ultrasonic therapy products.
- Other Radiological Health Regulations -- A number of other mandatory and nonmandatory regulations appear under 21 CFR, Subchapter J (e.g., general provisions and radiation protection recommendations under 21 CFR, Part 1000; importation of electronic products under 21 CFR, Part 1005; performance standards for electronic products: general under 21 CFR, Part 1010).

FDA's Center for Veterinary Medicine, 7500 Standish Place, Rockville, Maryland 20855, (301) 594-1830, is responsible for:

- Food Additives Permitted in Feed and Drinking Water of Animals -- Approximately 55 mandatory regulations under 21 CFR, Part 573 prescribe identity, specifications, and other conditions under which food additives may be solely used in feed and drinking water of animals.
- New Animal Drugs -- Approximately 650 mandatory regulations under 21 CFR, Parts 520-530 and 558 prescribe identity, specifications, testing, and other conditions for safe use of new animal drugs.
- Other Animal Drugs, Feeds, and Related Products Regulations -- A number of other miscellaneous mandatory regulations concerning animal drugs, feeds, and related products appear under 21 CFR, Subchapter E (e.g., animal food labeling under 21 CFR, Part 501; and tolerances for residues of new animal drugs in food under 21 CFR, Part 556).

#### Application

To determine that FDA-regulated products are in compliance with statutes, FDA conducts inspections of manufacturing establishments, collects and analyzes domestic samples and import samples, and conducts wharf examinations of products in import channels of trade. Samples collected are analyzed at FDA field and headquarters laboratories.



Adoption of Nongovernment Standards	FDA has adopted more than 300 nongovernment standards. The majority of these are ASTM, Association of Official Analytical Chemists (AOAC), Food Chemicals Codex, and American Public Health Association. In addition to these nongovernment standards, 21 U.S.C. 352(b) and 352(g) mandate that FDA use standards in an "official compendium" such as the United States Pharmacopeia.
Qualification, Certification, or Calibration	Color additives (unless the color is specifically exempted) and insulin are batch-certified by FDA prior to marketing. Many biological products are required by regulation to be tested by FDA prior to release of each lot of product. Well-characterized biological products, once licensed and their manufacturing process validated, are not subject to lot-by-lot release by FDA. With few exceptions (e.g., foods, cosmetics), most FDA-regulated products are subject to preclearance by FDA before they may be marketed.
Committee Activity	<p>More than 270 FDA staff members participate with 29 standards organizations in more than 270 standardization activities. For example:</p> <p>ANSI (13 committees, 16 subcommittees)  ASTM (5 committees, 52 subcommittees)  AAMI (27 committees, 11 subcommittees)  ASME (1 committee, 3 subcommittees)  USP (6 subcommittees)  NCCLS (10 committees, 24 subcommittees)  American College of Radiology (6 committees)  IEEE (4 committees, 7 subcommittees)  Acoustical Society of America (2 committees)  IEC (4 technical committees, 23 subcommittees)  ISO (7 technical committees, 13 subcommittees)  NCCLS (11 committees, 34 subcommittees)  International Organization for Legal Metrology (OIML), U.S.  Technical Advisory Group for SP26  Codex Alimentarius (FAO/WHO) (16 committees)</p>
Standardization Activities	The broad scope of FDA's involvement in standardization activities is reflected by the programmatic CFR listings above under Implementation and the partial listing under Committee Activities. Since May 27, 1975, FDA has regulated and encouraged participation of its employees in outside standard setting activities (the current regulation appears under 21 CFR 10.95). It is FDA policy to use and cite in its regulations nongovernment standards whenever possible and consistent with FDA's statutory mandates to protect the public health.

**Availability** FDA regulations are published in the Code of Federal Regulations available from the Government Printing Office. Each FDA regulation that incorporates by reference test methods or other materials also lists the complete address from which copies may be obtained.

**Keywords** food; food additives; color additives; cosmetics; human drugs; animal drugs; biologics; medical devices; radiation protection; electronic product radiation; safety; public health; consumer products;

## HEALTH AND HUMAN SERVICES

### HEALTH CARE FINANCING ADMINISTRATION

7500 Security Boulevard  
Baltimore, Maryland 21244-1850  
(410) 786-6810

**Authority** Titles XVIII and XIX of the Social Security Act.

**Implementation** 42 CFR, Chapter 4, Subchapters A through E. Regulations addressing the survey and certification of health care facilities wishing to participate in the Medicare and Medicaid programs.

**Application** State survey agencies and Health Care Financing Administration (HCFA) regional offices apply procedures set forth in these regulations in determining a facility's eligibility for certification and in making certification decisions.

**Committee Activity** HCFA works closely with Association of State and Territorial Health Officials, Association of Health Facility Survey Agencies, and various consumer and industry groups in developing its standards.

**Standardization Activities** HCFA standards apply to the survey and certification of all health care facilities wishing to participate in the Medicare and/or Medicaid programs. Having standard procedures assures national uniformity in approving facilities for Medicare/Medicaid reimbursement.

**Availability** Standards are available from the Government Printing Office and Health Care Financing Administration's Office of Public Affairs.

**Keywords** Medicare; Medicaid; survey and certification; health care providers and suppliers; state survey agencies; health care; facilities management; insurance;

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

ASSISTANT SECRETARY FOR HOUSING - FEDERAL HOUSING COMMISSIONER

Manufactured Housing and Construction Standards Division  
451 Seventh Street, SW, Room B-133  
Washington, DC 20410-8000  
(202) 755-7440 FAX: (202) 755-0303

Authority

- (1) Minimum Property Standards (MPS) - Sec. 7(d) of the Department of Housing and Urban Development Act of 1965, 79 Stat. 670; 42 U.S.C. 3535 (d); Sec. 211, 52 Stat. 23; 12 U.S.C. 1715b and 81 Stat. 54; 5 U.S.C. 522(a).
- (2) Technical Suitability of Products Program - Sec. 521 of the National Housing Act was added by Sec. 216 of the Housing and Urban Development Act of 1965, Public Law 89-117.
- (3) Manufactured Housing - Section 7(d), Department of Housing and Urban Development Act, 42 U.S.C. 3535(d), Title VI, Housing and Community Development Act of 1974 (42 U.S.C. 5401).

Implementation

All standards are codified as regulations and are mandatory. The MPS, which include as supplements product acceptance under Sec. 521 and the Department of Housing and Urban Development (HUD) Building Products Certification Programs, are incorporated by reference in 24 CFR, Part 200 Subpart S, Sections 200.925, 200.927, 200.929, 200.931, 200.933, 200.935 with an Appendix. Manufactured Home Construction and Safety Standards are in 24 CFR Parts 3280, 3282 and 3283.

Application

Design drawings are reviewed for compliance, and inspectors visit site development and manufacturing facilities for construction or manufacturing compliance. The MPS are only applicable for HUD mortgage or loan insurance and low-rent public housing programs. The Manufactured Home Standards are applicable for all manufacture homes which are designed to be used as dwelling units.

Adoption of  
Nongovernment  
Standards

Nongovernment standards are invoked by reference or adoption whenever possible. There are approximately 500 nongovernment standards referenced in the Minimum Property Standards and supplemental standards issued under the Technical Suitability of Products Program. The Manufactured Housing Program Standards contain 200 nongovernment standards. Principal

developers of these standards include the American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), American Concrete Institute (ACI), American Plywood Association (APA), American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and Architectural Aluminum Manufacturers Association (AAMA).

**Qualification,  
Certification,  
or Calibration**

Proponents of new building products or systems submit technical data for analysis under the Technical Suitability of Products Program. Upon a determination of suitability, a Materials Release is issued for products and a Structural Engineering Bulletin for building systems. These documents supplement the MPS, and include these products for national acceptance. Use of Materials Bulletins are issued either as an interim HUD standard for a particular class of like products, such as carpet, or as a means of promulgating a certification program for a product. There are currently Engineering Bulletins, Materials Releases, Use of Materials Bulletins, and 13 Certification Programs in effect.

Under the Manufactured Housing Program all designs, quality assurance manuals, product certifications and listings are approved by design approval agencies, accepted by HUD. All manufactured homes are inspected by in-plant inspection agencies for conformance to the approved design, and federal standards. Average yearly production of manufactured homes is 250 000 homes.

HUD encourages industry enforcement and self certification for those materials covered by product standards and Federal Specifications. It also requires third party certification in conformance with criteria set out in 24 CFR 200.935 for lumber, plywood, carpet, windows, plastic bathtubs, etc.

**Committee  
Activity**

HUD staff participate in pertinent committees that include the following: ASTM, National Conference of States on Building Codes and Standards (NCSBCS), ACI, American Lumber Standards Committee (ALSC), ANSI, ASHRAE, National Academy of Sciences, and National Institute of Building Sciences (NIBS).

**Standardization  
Activities**

The Manufactured Housing and Construction Standards Division writes, updates, revises, and clarifies construction and design standards for HUD-associated residential construction. This activity grew out of the National Housing Act of 1934 and Sec. 7(d) Department of Housing and Urban Development Act, 42 U.S.C. 3535(d), Title VI, Housing and Community Development Act of 1974. The Code of Federal Regulations reference is Title 24 Housing and Urban Development.



The Minimum Property Requirements established the minimum essentials for a property to be considered economically sound security for Federal Housing Administration (FHA) mortgage insurance purposes. They establish and describe those characteristics of a property which will produce continuing utility, livability, durability, marketability, economy of maintenance, safety and healthy environment.

In 1974 the National Mobile Home Construction and Safety Standards Act was enacted by Congress to reduce the number of personal injuries and deaths and the amount of insurance costs and property damage resulting from mobile home accidents and to improve the quality and durability of mobile homes. All mobile manufactured housing built since June 15, 1976 must be in compliance with the requirements of this Act. The standards cover all equipment and installations in the design, construction, fire safety, plumbing, heating, ventilating, and electrical systems of manufactured homes which are designed to be used as dwelling units.

**Availability**

Minimum Property Standards are available through HUD field offices. The Manufactured Housing Standards are available from HUD, Manufactured Housing and Construction Standards Division at the address above.

**Keywords**

manufactured homes; mobile homes; certification; residential; mortgage insurance; building; sanitation; safety; standards; construction;

**INTERDEPARTMENTAL SCREW THREAD COMMITTEE (Defunct)**

Replaced by

**DEFENSE INDUSTRIAL SUPPLY CENTER**

ATTN: DISC-ECF  
700 Robbins Avenue  
Philadelphia, Pennsylvania 19111  
(215) 697-2735

The Defense Industrial Supply Center (DISC) replaced the Interdepartmental Screw Thread Committee (ISTC) as preparing activity for the Screw Thread Standards for Federal Services in 1976. Following this transfer, the National Bureau of Standards Handbook H28, which consisted of 3 volumes of screw thread standards, was converted to a basic cover document, FED-STD-H28, and individually issued sections FED-STD-H28/1, FED-STD-H28/2, ..., FED-STD-H28/22. Each section is coordinated with Military Activities, Federal Agencies, and industry associations prior to approval by the General Services Administration.



DISC works closely with the American National Standards Institute (ANSI) Accredited Committee B1 of the American Society of Mechanical Engineers (ASME) which produces the inch and metric screw thread standards for general use by industry. ANSI/ASME B1 and other industry standards are incorporated into equivalent sections of FED-STD-H28 rather than duplicating industry standards as had been the practice in the old Handbook H28.

**Keywords** fasteners; metric; manufacturing;

**DEPARTMENT OF THE INTERIOR**

**MINERALS MANAGEMENT SERVICE**

Offshore Rules and Operations Division, Branch of Rules, Orders,  
and Standards  
381 Elden Street  
Mail Stop 646  
Herndon, Virginia 22070  
(703) 860-7564

**Authority** The Outer Continental Shelf Lands Act, 43 U.S.C. 1331 et seq., provides for the jurisdiction of the United States over the submerged lands of the Outer Continental Shelf (OCS), authorizes the Secretary of the Interior to lease such lands for the development and production of oil and gas, provides for the establishment and enforcement of safety regulations for oil and gas operations, and provides for environmental studies directed towards minimizing the impact of such operations.

**Implementation** Approximately 200 mandatory requirements are codified as regulations in 30 CFR, Parts 250, 251, 252, 256, 280, 281, and 282. These regulations are for OCS minerals operations, geological and geophysical explorations, an information program, and for the management of pipeline rights-of-way. The regulations are supplemented by OCS Orders for each of the four OCS Regions.

**Application** Inspectors visit offshore operators on the OCS to see that safety requirements are followed. Minerals Management Service (MMS) personnel review required reports from lessees to ensure that drilling and production personnel are properly trained, prepared to implement safety contingencies, and that all produced oil gas is properly measured and royalties paid.

Adoption of Nongovernment Standards	The MMS currently incorporates by reference 65 nongovernment standards. The majority of these standards were developed by the American Petroleum Institute and the American Society for Testing and Materials.
Committee Activity	The MMS participates in pertinent committees of the American Society of Mechanical Engineers, American Petroleum Institute, American Welding Society, American Society of Civil Engineers, American Concrete Institute, American Society for Quality Control, and the American Bureau of Shipping.
Standardization Activities	The MMS participates in the preparation of the full range of engineering material and operational standards concerning offshore drilling and production of minerals. These standards are used internationally.
Availability	MMS Regulations and OCS Orders are sold by Government Printing Office and MMS.
Keywords	offshore minerals exploration; continental shelf; offshore platforms; energy; safety;

## DEPARTMENT OF THE INTERIOR

### FEDERAL GEOGRAPHIC DATA COMMITTEE

FGDC Secretariat  
590 National Center  
12201 Sunrise Valley Drive  
Reston, Virginia 22092  
(703) 648-5752

FAX: (703) 648-5755

Authority	Executive Order 12906, calling for the establishment of the National Spatial Data Infrastructure (NSDI), requires federal agencies to adhere to applicable FGDC standards when collecting geospatial data, in accordance with responsibilities assigned in OMB Circular No. A-16.
Implementation Activities	FGDC Subcommittees and Working Groups, charged with coordinating the NDSI by Executive Order 12906, develop standards to support the coordinated development, use, sharing, and dissemination of geospatial data on a national basis.
Application	2 standards, SDTS and Metadata, have been adopted by the FGDC 1 standard, SDTS, has been adopted as a Federal Information Processing Standard (FIPS). Other standards may be submitted for adoption as FIPS, ANSI or ISO standards.

<b>Standardization Activities</b>	The FGDC has approximately 300 members that participate on subcommittees and working groups. A subset of these members plus additional nonmembers participate in standards development activities. The FGDC Subcommittees and Working Groups review existing standards, propose new or modified standards, and develop, test, and devise implementation strategies for standards. Developed standards relate to the content, classification, documentation, quality, transfer, and collection of geospatial data. They foster the sharing and multi-purpose use of data, avoid wasteful duplication of effort, and promote effective and economical management of our Nations geographic information resources. Standards are developed in cooperation with federal, state, local, and tribal governments, the private and academic sectors, and the international community.
<b>Availability</b>	Published and draft standards are available from FGDC at the address above.
<b>Keywords</b>	National Spatial Data Infrastructure; bathymetric; cadastral; cultural; demographic; geodetic; geologic; transportation; boundaries; soils; vegetation; water; wetlands; hydrography; geospatial; metadata; SDTS;

## DEPARTMENT OF THE INTERIOR

### U.S. GEOLOGICAL SURVEY

Information Systems Division  
Office of Data Administration  
806 National Center  
Reston, Virginia 22092  
(703) 860-6086

<b>Authority</b>	43 U.S.C. 31, March 3, 1879 (USGS Organic Act), establishes the Geological Survey basic mission.
<b>Implementation</b>	A Memorandum of Understanding with the National Institute of Standards and Technology (NIST) dated February 1980 gives the U.S. Geological Survey (USGS) key agency responsibility for federal digital data standards in the earth sciences (geology, hydrology, cartography, geography).
<b>Application</b>	The USGS Data Standards Committee decides on applicable standards and their priority and establishes work groups to draft such standards, has them reviewed, and forwards them to NIST as proposed Federal Information Processing Standards (FIPS).

Adoption of Nongovernment Standards	The USGS works with various professional organizations in the development of pertinent standards and uses them as much as possible. The organizations include: the American Public Health Association, American Water Works Association; Water Pollution Control Federation; American Association of Petroleum Geologists; American Society for Testing and Materials; Association of Official Analytical Chemists; Instrument Society of America; International Organization for Standardization; International Electrotechnical Commission; American Commission on Stratigraphic Nomenclature.
Committee Activity	The USGS participates in pertinent committees of ANSI, ISO, and the U.S. Geographic Names Committee.
Standardization Activities	A long-term program has been established to develop pertinent standards for data elements and their representation (name, definition, units of measure, digital coding methodology) in the earth sciences. After acceptance by the USGS and Department of the Interior, each standard is published as a USGS circular and sent to NIST as a proposed FIPS. Certain standards proposed as a FIPS are also introduced into the ANSI processes as proposed national standards. The USGS recommends that established standards be used in all new and developing systems. All existing data systems should be modified in accordance with the standards at such time that future redesign or modification to the systems take place. To date, two standards have been accepted at USGS and proposed as FIPS: Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas, Geological Survey Circular 878-A, and Specifications for Representation of Geographic Point Locations for Information Interchange, Geological Survey Circular 878-B.
Availability	USGS Public Inquiries Offices; the USGS Branch of Distribution, 604 South Pickett Street, Alexandria, Virginia 22304; the USGS Data Administrator.
Keywords	earth sciences; geology; hydrology; cartography; topography; geography; data processing;



DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY

National Mapping Division  
Office of Technical Management  
510 National Center  
Reston, Virginia 22092  
(703) 648-4566

Authority

43 U.S.C. 31, March 3, 1879 (USGS Organic Act)

Implementation

Memorandum of Understanding, signed February 1980 by the National Institute of Standards and Technology (NIST) and U.S. Geological Survey (USGS), assign to the USGS key agency responsibility for developing and maintaining earth-science data element and representation standards for use in the federal establishment. The National Mapping Division (NMD) develops and maintains digital cartographic data standards which are promulgated by issuance of Technical Instructions when approved for use within the USGS, and by publication as a Federal Information Processing Standard (FIPS) by NIST when approved for use throughout the federal establishment.

Application

Use is mandatory (within the USGS or the federal establishment, depending upon level of approval) for all new and developing systems that utilize data elements and representations described by the standard. All existing data systems will be modified in accordance with the standards when redesign and modifications to the system take place.

Committee

Activity

The NMD participates in the Federal Interagency Coordinating Committee on Digital Cartography (FICCDC) Standards Working Group which is charged with coordinating and promoting activities for exchanging digital spatial data among federal agencies.

Standardization

Activities

The USGS has taken the leadership role in the development of the Spatial Data Transfer Standard (SDTS) that will be submitted to NIST for adoption as a FIPS. The SDTS has been produced to meet the need for easy transfer of spatial data from one spatial data handling system to another. It is being promoted throughout the federal community by FICCDC, and once approved as a FIPS, will be used by the federal government to distribute spatial data.

In addition to supporting the development of data exchange standards, the NMD has assembled and published Technical Instructions, including product standards and data users guides that have been developed to govern the collection, archiving, and distribution of USGS digital cartographic data.



**Availability** USGS Technical Instructions are available from the Earth Science Information Center, U.S. Geological Survey, 507 National Center, Reston, Virginia 22092, phone (703) 860-6045.

**Keywords** cartography; geography; digital spatial data; spatial data transfer standard; data processing; SDTS;

**DEPARTMENT OF THE INTERIOR**

**U.S. GEOLOGICAL SURVEY**

Water Resources Division  
417 National Center  
Reston, Virginia 22092  
1-800-426-9000  
WWW: <http://www.usgs.gov>

**Authority** 43 U.S.C. 31, March 3, 1879 (USGS Organic Act)

**Implementation** U.S. Geological Survey (USGS) guideline documents for the collection and analysis of surface-water, ground-water, and water quality data include:

USGS Bulletin 17B, Guidelines for Determining Flood Flow Frequency; USGS Water Supply Paper No. 2175, Measurement and Computation of Streamflow: Volume 1. Measurement of Stages and Discharge; USGS Circular 878-A, Codes for the Identification of Hydrologic Units in the United States and the Caribbean Outlying Areas; USGS Water Supply Paper 2294, Hydrologic Unit Maps; USGS Techniques of Water-resources Investigation; and National Handbook of Recommended Methods for Water-Data Acquisition.

**Application** Standards are voluntarily adopted by the Water Resources Division (WRD). All WRD offices and laboratories are reviewed on a scheduled basis and all quality assurance programs must reference the standards.

**Adoption of Nongovernment Standards** Numerous nongovernment standards have been adopted by WRD. There is strong support for the development and use of consensus standards related to water resources data collection and analysis as developed by the International Organization for Standardization (ISO), the American Society for Testing and Materials (ASTM), and other groups.

<b>Committee Activity</b>	WRD participates in pertinent committees of the following: Interagency Advisory Committee on Water Data, Coordinating Committees of U.S. Geological Survey (USGS) with each of the following federal agencies: National Oceanic and Atmospheric Administration; Bureau of Land Management; and Environmental Protection Agency; and committees for the American Water Resources Association, National Water Well Association, American Society of Civil Engineers, American Public Health Association, ASTM, ISO, and the World Meteorological Organization (WMO).
<b>Standardization Activity</b>	<p>The USGS, as part of its implementation of OMB Circular M-92-01, has designated the Office of Water Data Coordination (OWDC) within WRD to identify methods used to acquire water data and to recommend methods for use by federal agencies. The OWDC accomplishes this with the advice and guidance of the IACWD. As of 1989, the IACWD, through OWDC, has published 10 chapters of the National Handbook of Recommended Methods for Water-Data Acquisition. The chapters include recommended methods on: 1. Surface Water, 2. Groundwater, 3. Sediment, 4. Biological and Microbiological Quality of Water, 5. Chemical and Physical Quality of Water, 6. Soil Water, 7. Drainage-Basin Characteristics, 8. Evaporation and Transpiration, 9. Snow and Ice, 10. Hydrometeorological Observations. Subcommittees of the IACWD periodically review and update the chapters.</p> <p>WRD is cooperating with EPA, the Navy, and ASTM to accelerate the development of consensus standards for ground-water data collection, reporting, and analysis. WRD also develops standards, methods, and guidelines in the field of hydrology where no standards exist, to assure the reproducibility of analytical results and to give quality assurance to the programs and studies within WRD. WRD participates in the U.S. Geological Survey's interagency Data Standards Committee that identifies standards used within the agency.</p>
<b>Availability</b>	Government Printing Office, and USGS Water Information Center (1-800-426-9000).
<b>Keywords</b>	hydrology; surface water; ground water; water quality; data processing; public health;

DEPARTMENT OF JUSTICE

NATIONAL INSTITUTE OF JUSTICE

Technology Assessment Program

see DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Electronics and Electrical Engineering Laboratory  
Office of Law Enforcement Standards

DEPARTMENT OF LABOR

MINE SAFETY AND HEALTH ADMINISTRATION

Office of Standards, Regulations, and  
Variances  
4015 Wilson Boulevard, Room 627, BT #3  
Arlington, Virginia 22203  
(703) 235-1910 FAX: (703) 235-5551  
e-mail: [psiley@msha.gov](mailto:psiley@msha.gov)  
WWW: <http://www.msha.gov>

**Authority** 30 U.S.C. 811, November 9, 1977, The Mine Safety and Health Act of 1977, to provide for the health and safety of workers in the mining industry.

**Implementation** Several hundred safety and health regulations are codified in 30 CFR, Chapter I. These requirements include specifications for obtaining approval of certain equipment used in mines, required work practices, and maximum exposure levels to hazardous substances.

**Application** Federal inspectors visit mine sites to see that the health and safety standards are followed, and the standards are also applied through voluntary compliance. The standards also establish procedures and requirements for application within the Mine Safety and Health Administration (MSHA). MSHA also tests for approval and certification of certain products for use in potentially explosive underground mine atmospheres.

**Adoption of  
Nongovernment  
Standards** Whenever practicable MSHA adopts nongovernment standards. The majority of these standards have been developed by the American Conference of Governmental Industrial Hygienists (ACGIH), the American National Standards Institute (ANSI), the American Society of Mechanical Engineers (ASME), the National Fire Protection Association (NFPA), and the Society of Automotive Engineers (SAE).

<b>Qualification, Certification, or Calibration</b>	Manufacturers of certain equipment for use in underground mines with potentially explosive atmospheres must submit their equipment to MSHA for approval and certification.
<b>Committee Activity</b>	MSHA has technical experts who participate on committees of the following: American National Standards Institute; American Conference of Governmental Industrial Hygienists; Institute of Electrical and Electronics Engineers; and National Fire Protection Association.
<b>Standardization Activities</b>	MSHA's standards are directed at improving the occupational safety and health of workers in the mining industry. These standards concern safe work practices, maximum exposure levels to hazardous substances or potentially harmful conditions, and performance criteria for the design of certain types of mining equipment.
<b>Availability</b>	Sold by Government Printing Office. Also available on OSHA-MSHA CD-ROM from the Government Printing Office and on-line through the Department of Labor bulletin board, and through a loose-leaf service offered by the Bureau of National Affairs, the Mine Safety and Health Reporter. Copies of specific standards may also be obtained directly from MSHA.
<b>Keywords</b>	coal mining; metal and nonmetal mining; underground mines; surface mines; equipment approval for gassy mines; energy; industrial equipment; health care; safety; testing;

## DEPARTMENT OF LABOR

### OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

Directorate of Safety Standards Programs, N 3605  
 200 Constitution Avenue NW.  
 Washington, DC 20210  
 (202) 219-8063 FAX: (202) 219-7477

<b>Authority</b>	Occupational Safety and Health Act of 1970, PL 91-596
<b>Implementation</b>	29 CFR Part 1910 -- Occupational Safety & Health Standards for General Industry; 29 CFR Part 1915 -- Occupational Safety & Health Standards for Shipyard Employments; 29 CFR Part 1917-1918 -- Occupational Safety & Health Standards for Marine Terminals; Longshoring; 29 CFR Part 1926 -- Construction Safety & Health Standards; 29 CFR Part 1928 -- Occupational Safety & Health Standards for Agricultural Employments.



Application	Inspection of the workplace
Adoption of Nongovernment Standards	American National Standards Institute (ANSI) National Fire Protection Association (NFPA)
Qualification, Certification, or Calibration	Throughout the OSHA standards, there are requirements for certain equipment to be listed, labeled, or approved by nationally recognized testing laboratories.
Committee Activity	National Advisory Committee on Occupational Safety and Health Standards Advisory Committee on Construction Safety and Health American National Standards Institute National Fire Protection Association American Society for Testing and Materials International Labor Organization
Standardization Activities	<p>The Occupational Safety and Health Administration (OSHA) develops and enforces occupational safety and health standards to provide protection to the nation's workers on their job. The standards are directed at the various hazards in which workers may be exposed. The purpose of the act is "to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources." OSHA adopted its initial standards on May 29, 1971 and they consisted of national consensus standards and the federal standards that were already in effect under other Department of Labor administered laws.</p> <p>OSHA develops and promulgates occupational safety and health standards and issues regulations necessary for assuring compliance with its standards and regulations. The Directorates of Safety Standards Programs and Health Standards Programs have the main responsibility in carrying out these functions. When either of the Directorates determines a need, on the basis of information submitted by interested parties, scientific data from the field, or experience gained under other health and safety laws, the appropriate Directorate will develop new standards, revoke or modify existing standards using one of two procedures available. All regular proposals to promulgate, modify, or revoke an Occupational Safety and Health standard using the 6(b) procedure must be published in accordance with Administration Procedures Act (APA) requirements in the Federal Register to afford interested parties an opportunity to comment before the standard becomes effective or is revoked. A temporary emergency standards procedure (6<sup>o</sup> procedure) may be used to promulgate standards where the APA procedures are waived. Such a temporary emergency standard must be replaced by a 6(b) standard within 6 months.</p>



In developing new standards or modifying standards, the Directorates of Safety or Health Standards determine whether there is a need for the establishment of a standards advisory committee to assist them in the standards setting function. Once it is determined there is a need for a committee, one is appointed which consists of 5 to 15 members and is composed of representatives of management, labor, state and federal governments and the public. Advisory committee meetings are opened to the public and a transcript is made available for public review.

OSHA standards are contained in Title 29 of the Code of Federal Regulations: (1) General Industry, Part 1910, (2) Maritime, Parts 1915, 1917, and 1918, (3) Construction, Part 1926, and (4) Agriculture, Part 1928.

**Availability**

Publications Office, OSHA, and Government Printing Office

**Keywords**

safety; health; environment; electrical equipment; manufacturing; construction; shipyards; agriculture; machinery; business; emergency response;

**LIBRARY OF CONGRESS**

**COLLECTIONS SERVICES**

Washington, DC 20540  
(202) 707-5325

**Authority**

Collection Services (by authority of the Library of Congress Regulation) has as its mission to develop qualitatively the Library's universal collections, which document the history and further the creativity of the American people, and which record and contribute to the advancement of civilizations and knowledge throughout the world; to acquire, organize, provide access to, maintain, secure, and preserve these collections. In achieving this mission, Collections Services takes part in the development and implementation of standards governing its technical services activities.

**Implementation**

Collections Services voluntarily follows OMB Circular A-119 which specifies the use of voluntary standards developed outside the government and participation in the development of voluntary standards as required for office missions.

Adoption of  
Non-Government  
Standards

The Library of Congress has adopted and applied the following guidelines and publications:

Dewey Decimal Classification: The Library of Congress Decimal Classification Division and Forest Press have agreed to develop and apply the Dewey Decimal Classification at the Library of Congress. The Dewey Decimal Classification schedule is applied on over 100 000 catalog records per year at the Library of Congress. Sixty thousand sets of the unabridged classification have been sold over the life of the edition (currently the 20th, 1989). Librarians choose to use Library of Congress catalog records or apply the schedule themselves (primarily in public and school libraries).

Anglo-American Cataloging Rules: The standard for descriptive cataloging is developed by the international committee representing national libraries (including the Library of Congress for the United States) and the national library associations of Australia, Britain, Canada, and the United States

Library of Congress Rule Interpretations: The second editions (1989) provides a cumulation of all currently valid Library of Congress rule interpretations issued since the Anglo-American Cataloging Rules was published in 1978.

International Standard Bibliographic Description: The standard for the part of descriptive cataloging called bibliographic description is developed by the International Federation of Library Associations and Institutions (IFLA), of which the Library of Congress is a member. It includes a variety of standard numbers, such as International Standard Book Number (ISBN), International Standard Serial Number (ISSN), etc.

Paris Principles: The quasi-standard for that part of descriptive cataloging called access points, it is a set of guidelines adopted by the International Conference on Cataloging Principles held in Paris in 1961.

Library of Congress Subject Headings: The twelfth edition (1989) and monthly updates are developed by the Subject Cataloging Division in Collections Services. It includes over 175 000 authorized subject headings and subdivisions which are accepted as a library standard of "keywords."

Subject Cataloging Manual: Subject Headings: The third edition (1988) provides guidelines for cataloging as practiced by the Subject Cataloging Division of the Library of Congress and explains the rationale for assigning subject headings to specific works.

Subject Cataloging Manual: Shelflisting: Published in 1987, the manual functions as a practical source for shelflisters and catalogers who wish to create call numbers in the spirit of Library of Congress policy and practice. It also describes the procedures to follow when assigning Cutters.

Library of Congress classification schedules: The 45 separate schedules and updates give an authorized classification scheme for the arrangement of library materials by field of study. The Library of Congress system is used primarily by all university libraries, by some college and junior college libraries, and by some public libraries.

Library of Congress Filing Rules: The rules were developed by the Library of Congress to arrange bibliographic records (or catalog cards) in a basic alphabetical arrangement incorporating logic for application in computer files.

Standards developed by American National Standards Committees Z39, Libraries, Information Science, and Publishing, and X3, Information Processing.

Standards developed by International Organization for Standardization (ISO), Technical Committee (TC) 46, Documentation, and TC 97, Computer Information Processing.

The Library of Congress together with the American Library Association develops romanization systems for the major non-Roman alphabet languages. The tables have become the de facto standard of the North American library community.

MARC Formats: The Library of Congress is instrumental in the development of MARC (machine-readable cataloging) formats, which have been adopted as national and international standards. The MARC formats incorporate standards, such as cataloging rules and principles. The formats also include de facto standards for content designators.

Computer Protocols: Assist in establishing library and information community usage profiles.

Collections Services participates in the committees or organizations responsible for the guidelines and publications listed above including:

Committee  
Activity

- (1) Subject Analysis Committee, Resources and Technical Services Division (RTSD), American Library Association (ALA)
- (2) Committee on Cataloging: Description and Access, RTSD, ALA
- (3) Forest Press Committee
- (4) Decimal Classification Editorial Policy Committee
- (5) Joint Steering Committee for Revision of Anglo-American Cataloging Rules
- (6) NISO, X3, ISO/TC 46, and various related committees and councils
- (7) National Institute of Standards and Technology
- (8) International Serials Data System (ISDS), including its Governing Board and Directors
- (9) Serials Industry Systems Advisory Committee (SISAC)
- (10) Book Industry Systems Advisory Committee (BISAC)
- (11) Machine-Readable Form of Bibliographic Information Committee (MARBI)
- (12) International Federation of Library Associations and Institutions (IFLA)
- (13) Linked System Project (LSP) Committees

#### Standardization Activities

#### The Library of Congress:

- has principal responsibility for the development of standards for the interchange of bibliographic records (including the format of the data in those records, coded data such as language and country codes, character sets, and works with others on communication protocols);
- acts as the maintenance agency in the United States for the International Standard Serial Number standard and cooperates with the maintenance agency in the United States in the use of accurate International Standard Book Numbers;
- acts as maintenance agency for information retrieval protocol;

- is active in developing standards for data in bibliographic records, such as holding statements for serial publications;
- formulates official Library of Congress interpretations of cataloging rules; and
- distributes products of standardized cataloging and bibliographic activities in these formats: catalog cards, MARC tapes, book catalogs, sound recordings, microfiche, and CD-ROMs.

#### Availability

Many of the publications listed above are available from the Library of Congress' Cataloging Distribution Service.

Manual on the Use of the Dewey Decimal Classification: Edition 20 and related publications are sold by Forest Press, 85 Watervliet Avenue, Albany, N.Y.

The Anglo-American Cataloging Rules, 2nd edition are sold by the American Library Association.

Other standards are available from their developers.

#### Keywords

Dewey Decimal Classification; library classification; classification; libraries; cataloging; subject headings; thesaurus; language codes; Anglo-American Cataloging Rules; bibliographic control; MARC tapes; catalog cards; bibliographic data formats; ISSN: communication protocols; character sets; information processing;

#### LIBRARY OF CONGRESS

##### INFORMATION TECHNOLOGY SERVICES

10 First Street, SE  
Washington, DC 20540  
(202) 707-5114

#### Implementation

The Library of Congress (LC) pilot program began service operations in 1984, involving all forms of optical disks. A task was established to track the emerging standards in this area, document and identify those areas in which the lack of standards presents problems in information interchange on optical disk, and share findings with other research libraries and related institutions with which the Library would be likely to engage in such information interchange. The library has been represented on the ANSI-accredited standards committee X3B11 on Optical Digital Data Disks since its formation in April 1984 and has participated in international standards developments on the ISO SC 23 committee



**Availability** An aperiodic series of reports are planned as well as publication of findings in the open literature.

**Keywords** optical disk; videodisc; digital storage; magneto-optical disks; information processing; optics;

**LIBRARY OF CONGRESS**

**NATIONAL LIBRARY SERVICE FOR THE BLIND AND  
PHYSICALLY HANDICAPPED**

1291 Taylor Street, NW  
Washington, DC 20542  
(202) 707-5100

**Implementation**

- (1) Published the guidance document, Published Approved Recommendations on Working Out National Standards of Library Service for the Blind, August 1983. This was compiled and adopted by the Standards Development Committee, Section of Libraries for the Blind, International Federation of Library Associations.
- (2) Published the guidance document Standards of Service for the Library of Congress Network of Libraries for the Blind and Physically Handicapped, revised 1984. This was developed and adopted by the Association of Specialized and Cooperative Library Agencies, a division of the American Library Association.

**Application**

The recommendations on Working Out National Standards are used by member countries in developing library service to the blind and in promoting international standards of service. The Standards of Service are used in evaluating the quality of library service provided by each library in a cooperating network either through self-evaluation or on-site inspections by representatives of the Library of Congress (LC), National Library Service for the Blind and Physically Handicapped (NLSBPH).

**Committee Activity**

American Library Association, Committee on Standards.

**Standardization Activities**

Reviews and approves proposed and existing standards for continued relevance to the state of library development and service for the blind and physically handicapped.

**Availability**

- (1) On request from Executive Secretariat, Office of the Director, National Library Service for the Blind and Physically Handicapped, at the address above.
- (2) Sold by the American Library Association, 50 E. Huron Street, Chicago, Illinois 60611.

**Keywords**

library service; library networks; blindness; physical handicaps; social welfare;

**LIBRARY OF CONGRESS****PHOTODUPLICATION SERVICES**

Washington, DC 20540

(202) 707-5650

**Application**

Photographic standards are specified in various conversion programs for preservation. Bibliographic standards are followed in appropriate divisions to promote more efficient transmission of information. Standards work for permanence of paper for printed library materials is a part of the Library's National Preservation Program.

**Adoption of  
Nongovernment  
Standards**

All new and revised ANSI PH1-5 standards (and those succeeded by IT9) are required for all preservation and conservation work involving photography. ANSI/AIIM standards are used for microphotography. ANSI/NISO standards are adopted for bibliographic and information-related work.

**Committee  
Activity**

Various staff members serve on American National Standards (ANSI) committees and subcommittees, especially those dealing with photographic materials in PH1, PH4, and PH5 (some PH1 standards now are designated as IT9), as well as the Association for Information and Image Management (AIIM) which deals with microphotography and micrographics. In addition, staff members have participated in Z30 and Z39 standards activities, which involves, respectively, library work and publishing practice, and bibliographic description of microforms, serials, and technical reports, plus paper for printed library materials.

**Standardization  
Activities**

As members of the committees listed above, staff members view and vote on the adoption of standards in those areas. Because no standards existed for micrographic reproduction when the Library of Congress had need of such standards, four specifications were developed for the microfilming of newspapers, books and pamphlets, library catalog cards, and manuscripts. The newspaper specification has since become ANSI/AIIM MS111-1987, Recommended Practice for Microfilming Printed Newspapers on 35mm Roll Microfilm.

**Availability** All Library of Congress microphotographic specifications have been reprinted and are available from the Association for Information and Image Management, 1100 Wayne Avenue, Silver Spring, Maryland 20910.

**Keywords** reprographics; document reproduction; micrographics; preservation microfilming; photography; information processing;

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

**OFFICE OF THE CHIEF ENGINEER**

Code AE  
NASA Headquarters  
Washington, DC 20546-0001  
(202) 358-1823

**Authority** Title 10, USC Chapter 145

**Implementation** Standards and Handbooks are developed as guidance for engineering design, analysis and test for space systems and associated ground support. Standards are developed to enhance commonality and interoperability among performing organizations and to make experience from past programs available for new systems. Documents are issued as NASA Engineering Standards.

**Application** Standards are available as technical guidance for both internal programs and those carried out under contract for spacecraft, launch systems and associated ground support equipment. Provisions of the standards are intended to be tailored to meet specific program needs except as specified for safety critical provisions.

**Adoption of  
Nongovernment  
Standards** Nongovernment standards from organizations such as ASTM, ASME, IEEE, IPC and others frequently cited in program specifications. A process for formal adoption of nongovernment standards is in development

**Qualification,  
Certification  
or Calibration** Qualification and certification activities are conducted only for support of internal programs, except that certification is provided for facilities performing flammability and fluid compatibility testing of materials flown on NASA space missions using the test procedures of NASA NHB 8061.1.

<b>Committee Activity</b>	NASA technical experts participate in standards making activities of the Department of Defense; nongovernment standards bodies including ANSI, AIAA, ASME, ASTM, IEEE, IPC, and SAE; and international standards committees of the ISO.
<b>Standardization Activities</b>	NASA Engineering Standards are developed to enhance comparability and interoperability in system design and to make available experience from previous programs for new design. Standards are developed in the areas of structural and mechanical design, test requirements, materials and processes, ground support equipment and human factors.
<b>Availability</b>	Office of the Chief Engineer at the address above.
<b>Keywords</b>	spacecraft; space systems; structural design; materials; processes; human factors;

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

### OFFICE OF SAFETY AND MISSION ASSURANCE

Code Q  
 NASA Headquarters  
 Washington, DC 20546  
 (202) 358-2406

<b>Authority</b>	Title 10, USC Chapter 145
<b>Implementation</b>	NASA Assurance Standards (NAS's) are developed by NASA to provide specific guidance for Safety, Reliability, Availability, Maintainability, and Quality Assurance activities. The NAS's are prepared by NASA for use in programs and processes specifically dealing with space flight operations and hardware.
<b>Application</b>	Guidance for application of standards to internal and contracted programs is provided in NASA Policy. Each specific program defines which standards are to be used and how the activity will insure correct implementation of the standards.
<b>Adoption of Nongovernment Standards</b>	NASA has adopted the ISO 9000 series of quality management systems standards as a baseline Quality Management System. NASA efforts continue in the adoption of other nongovernment standards and practices which meet the Safety, Reliability and Quality Workmanship requirements for space flight, operations and processes.

Qualification, Certification or Calibration	NASA conducts no Qualification, Certification, or Calibration Programs. NASA does perform internal audits of parts manufacturing processes and produces audit reports that are available to the public.
Committee Activity	NASA is involved in many industry and interagency standards committees including: Space Parts Working Group; Government/Industry Quality Liaison Panel; ISO TC 176 U.S. TAG; and the Electronic Industries Association G-48 Committee.
Standardization Activities	NASA develops NAS's which address unique requirements for Manned Space Flight systems, facility operations, and workmanship requirements. Safety NAS's address areas such as: Flight and Ground Systems including Ground Pressure Systems, Pressure Vessels, and Propulsion Systems. Workmanship NAS's address electronic fabrication and related activities. Software NAS's provide guidance in the development of software and requirements. NASA does not write standards for electronic parts but is an active participant in the Defense Electronics Supply Center, Qualified Manufacturers List (QML) and Qualified Parts List (QPL) certifications. MIL-STD 975, for which NASA is the preparing activity, is used as a section list for NASA Electrical, Electronic and Electromagnetic (EEE) parts. NASA coordinates and uses QML MIL-PRF-38534 Hybrid Circuits, QML MIL-PRF-38535 Microcircuits, and QPL MIL-S-19500 semiconductors, as acceptable references for qualified parts, test and performance data and selection criteria for electronic parts that have been used in NASA programs are available on the Internet.
Availability	NASA Assurance Standards are available from the Government Printing Office and from the NASA Technical Information System. Additional Information on the EEE parts used in NASA programs can be found on the Internet at: <a href="http://nppp.jpl.nasa.gov">http://nppp.jpl.nasa.gov</a>
Keywords	aerospace; safety; reliability; availability; maintainability; quality assurance; electronic; electrical; electromagnetic; electrical parts;

## NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

### OFFICE OF SPACE COMMUNICATIONS

Code OI  
 NASA Headquarters  
 Washington, DC 20546-0001  
 (202) 358-2024



<b>Authority</b>	NASA Management Instruction 8074.1A, Data Systems Standards: Compliance In Flight Project Development
<b>Implementation</b>	Data standards for NASA space flight programs are developed through the Consultative Committee for Space Data Systems (CCSDS) by agreement between eight international space agencies to develop space data communication standard recommendations that enable the cross support of satellites by conforming ground terminals.
<b>Application</b>	CCSDS recommendations are implemented through incorporation in development contracts for satellites and ground terminals.
<b>Adoption of Nongovernment Standards</b>	Current Space Communication Protocol Standards (SCPS) efforts within CCSDS based on Internet File Transfer modified for the space communication environment.
<b>Committee Activity</b>	CCSDS has three Panels which develop data standards involving space to earth communication, data communication and archiving, and ground terminal communication interfaces. NASA participates in ISO TC 20, SC 13 began in 1990. Thirteen of the current twenty CCSDS recommendations have been adopted as ISO standards. Concentration has been on communication and data handling protocols that enable the cross support of international spacecraft with conforming ground communication and data handling resources of other space agencies. Current work is focused on improving the efficiency in the space to ground communication link and developing international standards for archiving of spacecraft data.
<b>Standardization Activities</b>	CCSDS was established as an international space data communication standards body in 1982. Adoption of standards into ISO TC 20, SC13 began in 1990. Thirteen of the current twenty CCSDS recommendations have been adopted as ISO standards. Concentration has been on communication and data handling protocols that enable the cross support of international spacecraft with conforming ground communication and data handling resources of other space agencies. Current work is focused on improving the efficiency in the space to ground communication link and developing international standards for archiving of spacecraft data.
<b>Availability</b>	CCSDS recommendations are available on-line on the World Wide Web at: <a href="http://www.gsfc.nasa.gov/ccsds/ccsds_home.html">http://www.gsfc.nasa.gov/ccsds/ccsds_home.html</a> . They are distributed in hardcopy form by the CCSDS Secretariat through the NASA Office of Space Communications. ISO standards are available from ISO, its national member bodies, and IHS.

**Keywords**

data archiving; data systems; data telemetry; ground terminal;  
space communications; telecommand; packet telemetry;

**NUCLEAR REGULATORY COMMISSION****NUCLEAR REGULATORY RESEARCH**

TWFN, 10F12

Washington, DC 20555

(301) 415-6641

FAX: (301) 415-5153

WWW: <http://www.nrc.gov>

**Adoption of  
Nongovernment  
Standards**

Many Nuclear Regulatory Commission (NRC) guides refer to or endorse national standards that are developed by recognized national organizations, e.g., ANSI, ASTM, ASME, often with NRC participation. NRC makes use of a national standard in the regulatory process only after an independent review by the NRC staff and after public comment on NRC's planned use of the standard has been reviewed.

**Committee  
Activity**

NRC participates on more than 300 interagency, non-governmental, and international standards committees. The NRC staff is active in national standards programs, particularly with respect to setting priorities. NRC participation derives from a need for national standards to define acceptable ways of implementing the NRC's basic safety regulations. Approximately 200 NRC staff members serve on working groups organized by technical and professional societies.

**Standardization  
Activities**

NRC standards are primarily of two types -- Regulations and Regulatory Guides.

Regulations set forth requirements that must be met by NRC licensees in Title 10, Chapter I, of the Code of Federal Regulations. When NRC proposes new or amended regulations, they are normally published in the Federal Register to allow interested persons or organizations time for comment before they are adopted. This is required by the Administrative Procedures Act. Following the public comment period, the regulations are revised, as appropriate, to reflect the comments received. Once adopted by the NRC, they are published in the Federal Register in final form, with the date they became effective. After that publication, rules are codified and included annually in the Code of Federal Regulations.

Regulatory Guides are issued to describe and make available to the public such information as methods acceptable to the NRC staff for implementing specific parts of the Commission's regulations, techniques used by the staff in evaluating specific problems or postulated accidents, and data needed by the staff in its review of applications for permits and licenses. Regulatory Guides are

not substitutes for regulations, and compliance with them is not required.

The guides are issued in the following ten broad divisions: Power Reactors, Research and Test Reactors, Fuels and Materials Facilities, Environmental and Siting, Materials and Plant Protection, Products, Transportation, Occupational Health, Antitrust and Financial Review, and General. NRC issues the guides for public comment in draft form before an official staff position has been established. Regulatory guides may also be withdrawn when changes make them obsolete.

**Keywords** energy; nuclear; reactors; environment; radiation; safety;

**POSTAL SERVICE, U.S.**

Marketing Department  
475 L'Enfant Plaza, SW  
Washington, DC 20260-6300  
(202) 268-5185

**Authority** 39 U.S.C.: 101, 401, 403, 404, 407, 3001-2, 3621-84

**Implementation** Standards for mail are included in the Domestic Mail Manual and the International Mail Manual, published by the U.S. Postal Service.

Standards for producing letter size and flat size mail which is properly designed and addressed for successful sorting on automated processing equipment are contained in two publications from the U.S. Postal Service; Publication 25, Designing Letter Mail, Publication 28, Postal Addressing Standards, Publication 63, Designing Flat Mail, Publication 353, Designing Reply Mail.

**Application** Mail standards are applied by trained postal employees verifying compliance at the point the mail enters Postal Service custody. Trained postal employees also provide information on mail standards to mailers who produce large mailings and to suppliers of mailing materials to the public.

**Adoption of  
Nongovernment  
Standards** There are no nongovernment generated standards for mail. Standards for international mail generally are produced through agreement according to procedures set by the international postal body, the Universal Postal Union (UPU). Standards for domestic mail generally are developed in consultation with the mailing industry body, the Mailers Technical Advisory Committee (MTAC), and may be subject to approval by the independent Postal Rate Commission prior to implementation. Mail standards have a direct relationship to postal rates: standards are used to define mail classes and rates are set according to mail classes.

Qualification, Certification, or Calibration	There are no requirements for qualification, certification, or calibration related to mail standards. Assistance in determining compliance with the standards is available through all large city post offices. Requests for assistance and testing on automated equipment should be directed to a postal Mailpiece Design Analyst or Account Representative at those locations.
Committee Activities	The U.S. Postal Service participates in UPU and MTAC committees involved in mail standards.
Standardization Activities	The U.S. Postal Service standardization activities involve the UPU, MTAC, and the Postal Rate Commission.
Availability	The Domestic Mail Manual and the International Mail Manual are available as a subscription sold by the Government Printing Office. Publications 25, 28, 63 and 353 are available, without cost, through all city post offices. Requests for the documents may be directed to any postal marketing representative.
Keywords	mail; addressing; address format; OCR readability; barcoding; information processing; business; communications; classification;

DEPARTMENT OF STATE

U.S. INTERNATIONAL TELECOMMUNICATIONS ADVISORY  
COMMITTEE FOR STANDARDIZATION

Bureau of Economic and Business Affairs  
Office of International Communications and  
Information Policy  
Room 5820 N.S.  
2201 C Street, NW  
Washington, DC 20520  
(202) 647-0197

FAX: (202) 647-7407

Application	Voluntary standards (ITU-T Recommendations formerly CCITT Recommendations) for telecommunications equipments, networks, services and tariffs are issued by the International Telecommunications Union, a specialized agency of the United
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Nations, for use by each nation, according to its needs and laws. The current ITU-T Recommendations (standards) cover more than 60 000 pages through the 1996 ITU-T Plenary cycle being completed in October 1996 at the World Telecommunications Standardization Conference, Geneva.

#### **Adoption of Nongovernment Standards**

Within the United States, the vast majority of telecommunications standards are produced by industry participants and organizations. Typical of these organizations are AT&T, MCI Telecommunications, NYNEX, Bell South, the IEEE, TIA, ITI, and ANSI T1 Committee. Twenty-three government agencies participate in these organizations as active players and users.

#### **Committee Activity**

Industry participants with an interest in telecommunications may join the ITU-T and/or the U.S. ITAC-T National Committee at their own initiative, under the authority of the Department of State which represents the United States as the Telecommunications Administration in the treaty organization - the ITU. They may also petition the FCC for recognition as a Recognized Operating Agency and may choose to join the ITU-T and/or the U.S. National Committee through the Department of State.

The U.S. National Committee Study Groups develop technical, operational and tariff contributions from U.S. industry (both government and private sector) for approval and submission to the ITU-T as U.S. contributions. The U.S. Delegation to the ITU-T is usually chaired by a representative of the Department of State. The chair speaks for the United States at the international sessions and meetings of the ITU-T where the final version of the Recommendations (voluntary standards) are negotiated.

#### **Standardization Activities**

Telecommunications voluntary standards may be initiated by a person or company primarily through one of the U.S. technical committees, such as ANSI T1, CTIA, TIA, etc. (many contributions - mostly non-technical - begin their process directly at the U.S. ITAC-T Study Group level). These contributions are developed to maturity by these bodies, and are submitted for consensus vote in their respective arenas. They are then submitted by a company, committee, or person to the U.S. National Committee for consensus at the United States National Committee level. With consensus, the contribution becomes a U.S. source document for the attention of the appropriate ITU-T Study Group. The nations of the ITU-T will develop the standard further and finally arrive at consensus at an international meeting. The contribution then becomes a ITU-T Recommendation.



**Availability** The ITU-T Recommendations are sold by the ITU in paper and electronic media and via the Internet at <http://www.itu.ch/>. They are also available from distributors and information centers.

**Keywords** telecommunications; telephone; data communications; Integrated Services Digital Network; ISDN; telematics; ITU; call-back; telephone accounting rates; international numbering;

## DEPARTMENT OF TRANSPORTATION

### FEDERAL AVIATION ADMINISTRATION

Flight Standards Service  
800 Independence Avenue, SW  
Washington, DC 20591  
(202) 267-8237 FAX: (202) 267-5230

**Authority** The Federal Aviation Administration (FAA) was created under Title 6 of the Federal Aviation Act of 1958 to provide for the regulation and promotion of civil aviation in such a manner as to best foster its development and safety, and to provide for the safe and efficient use of the airspace by both civil and military aircraft. The Federal Aviation Regulations are promulgated under Title 14 of the Code of Federal Regulations. The first regulation and civil aviation standards originated with the passage of the Air Commerce Act of 1926.

**Implementation** FAA standards are either regulatory or nonregulatory in nature. Those in the former category are found in the various numbered parts of the Federal Aviation Regulations (FAR's) and, as such, are subject to review in accordance with the Administrative Rulemaking Procedures in which the public participates. Regulatory announcements and Notices of Proposed Rulemaking are published in the Federal Register. The nonregulatory standards generally contained in the FAA Advisory Circulars (AC's) serve principally as the means of providing safety information to the public with respect to aircraft operations or a related aeronautical interest. Nonregulatory circulars also provide the public with guidelines in meeting regulatory requirements.

**Standardization Activities** Regulations and standards are developed and administered by various offices and services within FAA. Flight Standards Service is responsible for most of the regulatory material which includes the certification, operations, and maintenance of aircraft, engines, propellers, and aircraft equipment; licensing of airmen and airman aeromedical standards; for aircraft operational procedures, and the certification of

schools, repair stations, and parachute lofts; and for airport and air carrier security. The Air Traffic Service is responsible for regulations and standards governing airspace utilization, air traffic control and procedures, and for the establishment and installation of navigational facilities. The Associate Administrator for Airports is responsible for regulations and standards concerning airport certification and airport grants; and the Associate Administrator for Policy and International Aviation for aircraft noise standards.

#### Availability

The Federal Aviation Administration periodically publishes a revised Advisory Circular Checklist (AC00-2) and Status of the Federal Aviation Regulations (AC00-44) which list current AC's and FAR's. These may be obtained free of charge from the address above. Regulations may be purchased from the Government Printing Office.

#### Keywords

aviation; aircraft; engines; air traffic control; airports; noise; environment; transportation; safety;

#### DEPARTMENT OF TRANSPORTATION

##### FEDERAL HIGHWAY ADMINISTRATION

Office of Engineering HNG-1  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-4853

FAX: (202) 366-3713

#### Authority

23 U.S.C. 106, 109, 112, 114, 116, 315 and 402; 49 CFR 1.48(b) unless otherwise noted Source 43 FR16832, May 7, 1986 unless otherwise noted.

#### Implementation

23 CFR Part 625 - Design Standards for Highways

#### Application

Construction, maintenance, materials, and contracting regulations, standards, and practices are applicable to all federally funded highway projects both on and off the national highway system. Projects may be administered by the Federal Highway Administration, state highway agency, or local governments. Application and compliance of accepted standards and specifications is assured by on-site inspection, process and product reviews and other management techniques.

#### Adoption of Longovernment Standards

The Federal Highway Administration actively participates with industry and state highway agency organizations in the development and implementation of highway construction, material, and maintenance standards and

specifications. Of the 46 publications and references noted in 23 CFR, Part 625, 31 were developed by American Association of State Highway and Transportation Officials (AASHTO); one by the American Welding Society; and three by the Transportation Research Board and the remaining 11 are Federal Highway Administration publications or references.

**Committee  
Activity**

The Federal Highway Administration is actively involved in industry/state highway agency organizations which develop the national standards cited in the CFR. Committees include both management and technical functions of the American Association of State Highway and Transportation Officials, American Society for Testing and Materials, Institute of Traffic Engineers, American Society of Civil Engineers, National Society of Professional Engineers, and American Road and Transportation Builders Association, etc.

**Standardization  
Activities**

The Federal Highway Administration administers the federal-aid highway program and continuity of the national highway network from a third party approach. Although seldom the contracting authority, by serving as the nucleus for the highway industry, the Federal Highway Administration assures reasonable standardization without stymieing creativity and new methods development. This approach allows the state highway agency and local governments the maximum flexibility practical while still attaining national uniformity.

Actual project standards/specifications are developed by each administering agency (state or local) and are reviewed and approved by the Federal Highway Administration. The general guidance provided by the above noted standards is used as a basis for the locally developed standards/specifications.

**Availability**

Federal Highway Administration, Government Printing Office, American Association of State Highway and Transportation Officials, and local/state highway agencies.

**Keywords**

highways; bridges; construction; materials; contracting; traffic control; safety; transportation;

DEPARTMENT OF TRANSPORTATION

FEDERAL HIGHWAY ADMINISTRATION

Office of Environmental Policy  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-2045

Authority	23 U.S.C 109(I) - The Federal-Aid Highway Act of 1970 requires that noise be considered in the development of new highway projects and that standards for highway noise levels compatible with various land uses be developed and implemented.
Implementation	The noise standards mandated by 23 U.S.C 109(I) are codified in 23 CFR, Part 772. The standards provide procedures for noise studies and noise abatement measures to help protect the public health and welfare, supply noise abatement criteria, and establish requirements for information to be given to local officials for use in the planning and design of highways approved pursuant to Title 23, United States Code (U.S.C.).
Application	The standards apply to any proposed federal or federal-aid highway project for the construction of a highway on new location or the physical alteration of an existing highway which significantly changes either the horizontal or vertical alignment or increases the number of through-traffic lanes. They also apply to any proposed federal or federal-aid project for noise abatement on an existing highway.
Committee Activity	The Federal Highway Administration participates in pertinent committees of the American Association of State Highway and Transportation Officials, Transportation Research Board, and Society of Automotive Engineers.
Standardization Activities	<p>The Federal Highway Administration (FHWA) is active in the preparation and implementation of highway traffic noise and construction noise standards for the planning, design, and construction of federal-aid funded highways. These highways are constructed by state and local highway agencies.</p> <p>The FHWA coordinates the preparation of the standards with the Environmental Protection Agency, other federal agencies, the states, and the public.</p>
Availability	Code of Federal Regulations, Title 23, part 772 is available from the Government Printing Office.



**Keywords**

highways; traffic; construction; land use; pollution; environment;  
noise control; transportation;

**DEPARTMENT OF TRANSPORTATION****FEDERAL HIGHWAY ADMINISTRATION**

Office of Motor Carriers HIA-1  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-4039

FAX: (202) 366-3518

**Authority**

Authority to regulate the qualifications and maximum hours of service of employees, the licensing standards for commercial drivers, and safety of operations and equipment is specified in 49 U.S.C. 3102, 3104, and 49 U.S.C. App. 2505, 2701-2716.

Authority to regulate the transportation of hazardous materials is provided by the Hazardous Materials Transportation Act - 49 U.S.C. 1801-1813.

Authority to enforce EPA noise control standards applicable to interstate motor carriers is specified in the Noise Control Act - 42 U.S.C. 4917.

Authority to require motor carriers to maintain minimum levels of financial responsibility is specified in 49 U.S.C. 10927 note.

Authority to establish certain federal size limits for commercial motor vehicles is provided by the Surface Transportation Act of 1982 - 49 U.S.C. App. 2311, 2316.

Authority to penalize states that fail to enforce federal weight limits on the Interstate Highway System is specified in 23 U.S.C. 127.

**Implementation**

Mandatory regulations are codified in Title 49 and 23 of the Code of Federal Regulations. The rules in Title 49 range from the Federal Motor Carrier Safety Regulations (FMCSRs) [Parts 390-399], including the hours of service of drivers [Part 395], to compliance with interstate noise emission standards [Part 325], minimum levels of financial responsibilities [Part 387], and the transportation of hazardous materials [Parts 171-173, 177-178]. They cover interstate motor carriers of passengers and property, as well as their vehicles and drivers.

In addition, Commercial Drivers's License (CDL) standards are codified in 49 C.F.R. Part 383 and apply to states, employers, and all drivers of commercial motor vehicles having a gross vehicle weight rating over 26 000 lbs., designed to carry 16 or more persons, or needing placarding for hazardous materials. Unlike



other Parts of the FMCSRs, the CDL regulations apply without distinction to inter- and intrastate transportation. CDL provisions include a prohibition on multiple licenses; testing and licensing procedures which states and drivers must follow; employer responsibilities; mandatory driver disqualifications for alcohol, drug, and other serious traffic violations and felonies; and a nationwide information clearinghouse on commercial drivers.

Vehicle size and weight regulations and state certification requirements are codified in 23 C.F.R. 657-658. These include regulation of vehicle lengths and widths on the National Network for large trucks (published in Appendix A to Part 658) which consists of the Interstates and other designated federal-aid primary highways.

#### **Application**

Office of Motor Carrier Safety specialists conduct safety and compliance reviews of motor carriers and hazardous materials shippers. They also conduct roadside inspections of vehicles and of drivers' required paperwork. Vehicles and/or drivers not in compliance with the FMCSRs are placed out of service where certain hazards to safety increase the likelihood of an accident.

Office of Motor Carriers transportation specialists review state compliance with the CDL program as well as states' certifications that they are enforcing federal size and weight limits and all state laws on federal-aid highways in the state.

#### **Availability**

FHWA regulations are available from the Government Printing Office and several private organizations.

#### **Keywords**

commercial motor vehicles; motor carrier; commercial drivers license; hazardous materials; bus; truck; driver qualifications;

#### **DEPARTMENT OF TRANSPORTATION**

##### **FEDERAL HIGHWAY ADMINISTRATION**

Office of Traffic Operations  
400 7th Street, SW  
Washington, DC 20590  
(202) 366-0411

Authority	23 U.S.C. 109, Standards, December 20, 1944, the Federal-Aid Highway Act of 1944.
Implementation	23 CFR 655, Subpart F, Traffic Control Devices on federal-aid and other streets and highways. A set of national standards have been developed and approved by the Federal Highway Administrator in cooperation with the state highway agencies. These standards are contained in the Manual on Uniform Traffic Control Devices (MUTCD). The Federal Highway Administration will only approve state or other federal agency MUTCDs (or supplements) that are in substantial conformance with the national MUTCD.
Application	The standards contained in the MUTCDs apply to all highways open to public travel.
Committee Activity	<p>The MUTCD was developed with cooperation of the:</p> <ul style="list-style-type: none"> <li>National Committee on Uniform Traffic Control Devices</li> <li>American Association of State Highway and Transportation Officials</li> <li>Institute of Transportation Engineers</li> <li>National Committee on Uniform Traffic Laws and Ordinances</li> <li>National Association of Counties</li> <li>National Association League of Cities</li> <li>National Association of Governors' Highway Safety Representatives</li> <li>International Association of Chiefs of Police, Inc.</li> <li>National Electrical Manufacturers Association</li> <li>American Road and Transportation Builders Association</li> <li>International Bridge, Tunnel, and Turnpike Association</li> </ul>
Standardization Activities	<p>Existing Highways -- Each state, in cooperation with its political subdivisions, and federal agencies shall have a program which shall include provisions for the systematic upgrading of substandard traffic control devices and for the installation of needed devices to achieve conformity with the MUTCD.</p> <p>New or Reconstructed Highways -- federal-aid projects for the construction, reconstruction, resurfacing, restoration, or rehabilitation of streets and highways shall not be opened to the public for unrestricted use until all appropriate traffic control devices, either temporary or permanent, are installed and functioning properly. Both temporary and permanent devices shall conform to the MUTCD.</p> <p>Construction Area Activities -- All traffic control devices installed in construction areas shall conform to the MUTCD.</p>

<b>Availability</b>	The MUTCD is available from the Government Printing Office
<b>Keywords</b>	traffic control devices; curb and pavement markers; regulatory signs; warning signs; public safety; transportation;
 <b>DEPARTMENT OF TRANSPORTATION</b>	
	 <b>MARITIME ADMINISTRATION</b>
	 Office of Ship Construction 400 Seventh Street, SW MAR-720, Room 2109 Washington, DC 20590-0001 (202) 366-1800
<b>Authority</b>	The development of guidance specifications for ship construction was first authorized May 20, 1960 by the Federal Maritime Board.
<b>Implementation</b>	There are three shipbuilding guidance specifications which are for voluntary use: (1) Standards Specifications for Merchant Ship Construction PB 290400; (2) Standards Specifications for Diesel Merchant Ship Construction PB 257261; (3) Standards Specifications for Slow Speed Diesel Merchant Ship Construction. A new publication entitled "Guideline Specifications for Merchant Ship Construction" as well as an Executive Summary of it are currently being prepared for publication.
<b>Application</b>	The guidance specifications are for voluntary use by the maritime industry.
<b>Adoption of Nongovernment Standards</b>	Those referred to include: American Society for Testing and Materials (ASTM), American Society of Mechanical Engineers (ASME), Heat Exchange Institute, American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE) and, International Organization for Standardization.
<b>Qualification, Certification, or Calibration</b>	None
<b>Committee Activity</b>	American Society for Testing and Materials
<b>Standardization Activities</b>	Active in the preparation of consensus shipbuilding standards through ASTM.

Availability National Technical Information Service, and/or the Maritime Administration

Keywords shipbuilding specifications; transportation; merchant ships;

DEPARTMENT OF TRANSPORTATION

NATIONAL HIGHWAY TRAFFIC SAFETY ADMINISTRATION

see DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

Electronics and Electrical Engineering Laboratories  
Office of Law Enforcement Standards

DEPARTMENT OF TRANSPORTATION

RESEARCH AND SPECIAL PROGRAMS ADMINISTRATION

Office of Pipeline Safety, Technology and Regulations  
400 7th Street, SW  
Room 2335  
Washington, DC 20590  
(202) 366-4046 FAX: (202) 366-4566

Authority Natural Gas Pipeline Safety Act of 1968 (49 U.S.C. 1671 et seq.)

Hazardous Liquid Pipeline Safety Act of 1979 (49 U.S.C. 2001 et seq.)

Implementation Standards for pipelines that carry natural gas or gas that is flammable, toxic, or corrosive are in 49 CFR, Part 192.

Standards for liquefied natural gas (LNG) plants are in 49 CFR, Part 193.

Standards for interstate pipelines carrying hazardous liquids, such as petroleum, petroleum products, or anhydrous ammonia are in 49 CFR, Part 195.

Regulations to require an anti-drug program for pipeline & LNG plant employees that perform operation, maintenance and emergency-response functions are in 49 CFR, Part 199.

<b>Application</b>	Standards are binding on pipeline operators by law. Federal and state inspectors visit operators' facilities to check on compliance.
<b>Adoption of Nongovernment Standards</b>	The federal standards incorporate by reference parts of nongovernment developed standards, principally API, ASME, ASTM, ANSI and NFPA.
<b>Committee Activity</b>	<p>The Office of Pipeline Safety sponsors two advisory committees: The Technical Pipeline Safety Standards Committee and the Technical Hazardous Liquid Pipeline Safety Standards Committee. These committees advise on proposed rule making activities.</p> <p>Staff members participate in or are members of various nongovernment standards setting committees, including those of the ASME, API, and NFPA.</p>
<b>Standardization Activities</b>	Standards cover design, construction, operation, and maintenance of pipelines. Benefits derive from savings in life and property damage, including environmental damage in the case of oil spill prevention. Original standards were based on standards widely followed by industry. Subsequent efforts have been directed toward improvements needed for safety as demonstrated by accident statistics, and toward changing regulations that are not cost beneficial.
<b>Availability</b>	Sold by Government Printing Office, and very small quantities available from Office of Pipeline Safety
<b>Keywords</b>	safety; gas; hazardous liquids; pipeline; LNG plants; design; construction; operation; maintenance; corrosion control; transportation; drugs; petroleum;

## DEPARTMENT OF TRANSPORTATION

### UNITED STATES COAST GUARD

Office of Marine Safety, Security and Environmental Protection  
 2100 Second Street SW.  
 Washington, DC 20593-0001  
 (202) 267-0030 FAX: (202) 267-4816

<b>Authority</b>	Maritime shipping laws related to vessels and seamen are codified and enacted into positive law as Subtitle II of Title 46, United States Code, 2101 through 13110.
<b>Implementation</b>	Mandatory standards for commercial vessel construction and operation, as well as manning and personnel licensing, are codified in 46 and 33 CFR. Program is administered under the direction of the Chief, Office of Merchant Marine Safety, U.S. Coast Guard (USCG)



Headquarters. A system of district and local port offices (marine safety offices/officers in charge, marine inspection) provide inspection and licensing services to assure compliance with the standards and regulations by shipyards, vessel operators, and merchant mariners.

Application	USCG inspectors periodically inspect commercial, foreign, and domestic vessels to assure compliance.
Adoption of Nongovernment Standards	USCG commercial vessel safety regulations incorporate a wide variety of nongovernment standards by reference.
Committee Activity	The Office of Merchant Marine Safety, Security and Environmental Protection participates in those standards developing committees whose standards are used by, or affect, the merchant marine. These include the International Maritime Organization (IMO), ISO, and IEC, as well as the Society of Naval Architects and Marine Engineers (SNAME), American Bureau of Shipping (ABS), ASTM, ASME, API, UL, and a dozen other domestic organizations.
Standardization Activities	USCG commercial vessel safety standards are incorporated into the United States Code of Regulations, Titles 46 and 33. The marine inspection program's regulatory approach includes active participation in voluntary standards programs. By actively participating in voluntary standards, the Coast Guard raises issues of public interest and can speak for the public in matters of safety. Also, where industry or owners have not set necessary safety requirements, the Coast Guard can catalyze their development.
Availability	Sold by Government Printing Office
Keywords	ship design; safety; environment; hazardous material; marine engineering; naval architecture; inspection; stability; fire protection; merchant marine; transportation;

#### DEPARTMENT OF TRANSPORTATION

##### UNITED STATES COAST GUARD

Recreational Boating Product Assurance Branch (G-NAB-6) Auxiliary,  
Boating, and Consumer Affairs Division  
Washington, DC 20593-0001  
(202) 267-0984 FAX: (202) 267-4285

<b>Authority</b>	Federal Boat Safety Act 1971 (46 U.S.C. 43)
<b>Implementation</b>	Standards issued to date are in 33 CFR Part 183 and include: <ul style="list-style-type: none"> <li>(1) Display of Capacity Information</li> <li>(2) Safe Loading</li> <li>(3) Safe Powering</li> <li>(4) Basic Flotation</li> <li>(5) Level Flotation</li> <li>(6) Electrical Systems</li> <li>(7) Fuel Systems</li> <li>(8) Ventilation</li> <li>(9) Start-In-Gear Protection</li> </ul>
<b>Application</b>	Boating safety standards are published as mandatory rules in accordance with the Administrative Procedures Act (APA). Final rules become a part of the Code of Federal Regulations. Each proposed rule and each final rule is published in the Federal Register.
<b>Committee Activity</b>	Staff members serve on various committees of the American Boat and Yacht Council, Society of Automotive Engineers, National Fire Protection Association, and American Bureau of Shipping.
<b>Standardization Activities</b>	The Auxiliary, Boating, and Consumer Affairs Division is responsible for the development of regulations related to boating safety. The Recreational Boating Product Assurance Branch of the division is responsible for the development of safety standards for recreational boats and associated equipment. Safety standards must be based upon a demonstrated need. This need is frequently related to research involving actual boating safety problem areas. Problem areas are identified from sources such as the Boating Accident Reports, State Accident Reports, Coast Guard District Reports, Defect Notification Reports, and consumer complaints. Specific problems are identified, categorized, and subdivided into specific project areas for standards development.
<b>Availability</b>	The volume, 33 CFR Parts 1 to 199, is available from the Superintendent of Documents, U.S. Government Printing Office
<b>Keywords</b>	recreational; boats; inboard engine; outboard motor; sterndrive unit; environment; safety;

DEPARTMENT OF THE TREASURY

BUREAU OF ALCOHOL, TOBACCO, AND FIREARMS

National Laboratory Center  
1401 Research Boulevard  
Rockville, Maryland 20850  
(301) 294-0410

**Authority** Various laws relating to the production, storage, and taxation of alcohol and tobacco products, firearms, and explosives.

**Implementation and Application** Standards have been established by the Bureau of Alcohol, Tobacco and Firearms (ATF) Laboratories, which apply to hydrometers, thermometers, and William's test tubes supplied to the Bureau for testing the alcoholic content of beverages. Although these standards are not usually published, they are supplied to bidders for manufacturing contracts.

In cooperation with various industry segments, ATF prescribes and enforces standards of identity for alcoholic beverages. These standards are established by regulations applicable to all such beverages produced in or imported into the United States. Standards for the various classes of wines are published at 27 CFR, Part 4; those for distilled spirits are published at 27 CFR, Part 5.

The ATF Laboratories set specifications for ethyl alcohol, denatured alcohol, proprietary solvents, and special industrial solvents. These are incorporated as Federal Specifications O-E-760B, issued by the General Services Administration. Through regulations issued by BATF at 27 CFR, Parts 211 and 212, these specifications are applicable to the production of these products in the United States.

The standards of identity for small cigars, as defined in 26 U.S.C. 5702 and in regulations issued by ATF at 27 CFR, Part 270, are further established by laboratory test procedures set up by the ATF Laboratories. These analytical tests are utilized to enforce these standards for small cigars, as differentiated from cigarettes, upon all such products consumed within the United States.

Additionally, the Bureau sets specifications relating to construction of storerooms for explosive materials. These specifications are published in 27 CFR, Part 181.

**Availability** National Laboratory Center, ATF. The CFR is available from the Government Printing Office

**Keywords**

instruments; beverages; testing; materials;

**DEPARTMENT OF THE TREASURY**

**INTERNAL REVENUE SERVICE**

Open Systems Standards (IS:S:A:OS)  
Suite 300  
1525 Wilson Blvd.  
Arlington, Virginia 22209  
(703) 235-2820 FAX: (703) 235-2911  
e-mail: rick.heroux@ccmail.irs.gov

**Authority**

Treasury Directive 87-01 (TD 87-01), Information Standards Program, states that it is the policy of the Department of Treasury to comply with all mandatory Federal Information Processing Standards (FIPS) and Federal Telecommunications Standards (FED-STDs) and other information systems standards and guidelines to the extent they are determined to be cost-effective and appropriate for the intended use.

**Implementation**

Within the Internal Revenue Service (IRS) Open Systems Standards is responsible for researching, adopting, and promoting federal standards to ensure portable applications and systems within the IRS. This includes ensuring that the development tools purchased by the agency comply with established FIPS and IRS standards which are manifested in the IRS Open Systems Standards Profile. The IRS Open Systems Standards Profile outlines those technical standards that have been selected for IRS use based upon user requirements. The standards selected must be used by IRS when building or purchasing information systems. These standards are based upon FIPS and de jure standards where possible and follow the National Institute of Standards and Technology (NIST) Application Portability Profile (APP) Service Areas.

**Adoption of  
Nongovernment  
Standards**

The majority of the IRS standards are incorporated from Treasury Directives, FIPS publications, FED-STDs, American National Standards Institute (ANSI), Institute of Electrical and Electronics Engineers (IEEE), International Telecommunications Union (ITU), and other de jure standards. When de jure standards are not mature or do not exist to meet a business requirement, de facto standards have been selected.

**Qualification,  
Certification,  
or Calibration**

Treasury Directive 85-02 Automated Information Systems Security and Risk Management Program, establishes the policy with respect to ensuring adequate security for automated information systems, applications, and facilities within the Department of Treasury. This Treasury Directive is intended to fulfill the requirements of Office of Management and Budget (OMB) Circulars A-130 and A-123, and National Security Decision Directive (NSDD)-145.



Committee Activity	IRS is in the process of identifying and standardizing data for electronic interchange through participation in ANSI Accredited Standards Committee X.12, Electronic Data Interchange(EDI). IRS and the state tax agencies, represented through the Federation of Tax Administrators, are working together to standardize data for EDI.
Standardization Activities	Periodically, the IRS updates its standards documentation to keep their standards consistent with user requirements, adopted standards, and changing market trends.
Keywords	electronic data interchange; information systems; open systems; application portability profile;

#### DEPARTMENT OF THE TREASURY

##### U.S. CUSTOMS SERVICE

Office of Regulations and Rulings  
International Agreements Staff  
1301 Constitution Avenue, NW  
Franklin Court Bldg., Suite 4000  
Washington, DC 20229  
(202) 482-7000

FAX: (202) 482-7042

Authority	United States accession to the Customs Cooperation Council Convention. Instruments of ratification deposited on November 5, 1970. United States accession to the Harmonized System Convention, instruments of ratification deposited on October 31, 1988. The CCC is informally known as the World Customs Organization (WCO).
Implementation	The Harmonized Tariff Schedule was implemented on January 1, 1989, as a result of the Omnibus Trade and Competitiveness Act of 1988.
Application	The Harmonized System is applied for the impost of customs duties upon the entry of merchandise into the United States and other countries, and for the collection of international trade data.
Committee Activity	The U.S. Customs Service (USCS) serves as chairman of the Inter-agency Advisory Committee on WCO matters, participates on the Trade Policy Staff Committee and its task force on the Harmonized System, and serves as chairman of the United States delegation of the Harmonized System Committee of the WCO.



<b>Standardization Activities</b>	The Harmonized System Committee of the Customs Cooperation Council developed a standardized system of nomenclature for use in international trade. This is essentially a commodity classification system used as a basis for customs tariffs and the foreign-trade statistical systems of the United States and its trading partners. The system is devised such that it is used as a basis for various other international trade facilitation measures, for example, freight tariffs.
<b>Availability</b>	A copy of the Harmonized Tariff Schedule of the United States Annotated is available from the United States International Trade Commission, 500 E Street, SW, Washington, DC.
<b>Keywords</b>	customs; harmonized system; international trade; business;

## **DEPARTMENT OF THE TREASURY**

### **U.S. CUSTOMS SERVICE**

Office of Laboratories and Scientific Services  
 1301 Constitution Avenue, NW  
 Washington, DC 20229  
 (202) 927-1060 FAX: (202) 927-2060  
 e-mail: lab-hq@labhqx31.customs.sprint.com

<b>Authority</b>	Title 19, Code of Federal Regulations
<b>Implementation</b>	Recommended and official laboratory methods are developed and implemented within the U.S. Customs Service (USCS) laboratory system for the analysis of imported commodities. Upon request, commodity brochures describing the methods and/or type of instrumentation used by the Customs laboratory, will be issued to the public.
<b>Application</b>	The application of these methods is to meet specific tariff requirements as legislated.
<b>Adoption of Nongovernment Standards</b>	U.S. Customs laboratories most frequently use standards developed by industry groups or other nongovernment organizations such as: AOAC, API, ASTM, ANSI, SAE, etc.

Qualification, Certification, or Calibration	Laboratories and Scientific Services is involved in the accreditation of private laboratories to perform testing of merchandise and the approval of commercial gaugers. Currently, gauger approval is provided for animal and vegetable oils, fuel oils, crude oils and organic compounds in bulk and liquid form. Additionally, this Office accredits laboratories in the testing of petroleum products for Customs purposes. Additional commodity types will be incorporated into the laboratory accreditation process. We are not involved in the qualification, certification or calibration of methods or standards.
Committee Activity	The U.S. Customs laboratory managers and scientists participate in pertinent committees of the American Petroleum Institute, American Society for Testing and Materials, Customs Cooperation Council, American National Standards Institute, International Commission for Uniform Methods of Sugar Analysis, Association of Official Analytical Chemists, the National Voluntary Laboratory Accreditation Program, and the American Chemical Society.
Availability	Laboratories and Scientific Services, U.S. Customs Service.
Keywords	sampling; laboratory analysis; laboratory methods; customs duties; testing; standards; NASD;

#### DEPARTMENT OF THE TREASURY

##### U.S. MINT

Office of Process Control and Quality Assurance  
Judiciary Square Building  
633 3rd Street, NW  
Washington, DC 20220  
(202) 874-6160 FAX: (202) 874-6324

Authority	31 U.S.C. 317 and 391
Implementation	The U.S. Mint, Department of the Treasury, develops and administers the technical standards for United States coinage. Nominal diameter and weight standards are established by statute. Deviations allowed in the weight of minor coins are established by 31 U.S.C. 350. Thickness standards and other tolerances are developed by the Office of Process Control and Quality Assurance, Office of the Director.
Application	These standards are only imposed internally on the coin manufacturing processes. However, their importance in the development of coin handling and coin operated equipment so commonly found throughout the nation warrants their publication upon request.

**Availability** Written inquiries should be directed to the Director of the Mint,  
Attention, Office of Process Control and Quality Assurance.

**Keywords** coins; finance;

**U.S. TRADE REPRESENTATIVE**

see EXECUTIVE OFFICE OF THE PRESIDENT

**DEPARTMENT OF VETERANS AFFAIRS**

Office of Acquisition and Material Management (92A)  
810 Vermont Avenue, NW  
Washington, DC 20420  
(202) 273-6103 FAX: (202) 273-6225

**Authority** Title 38 CFR Chapter I and Title 41 CFR Chapter 8

**Standardization  
Activities** The standardization activities of the Veterans  
Administration (VA) are administered by the Safety, Occupational  
Health, and Fire Protection Division. The Division establishes  
VA standards as supplements to adopted national standards.  
Currently there are 26 VA standards including the following 20  
product and safety related items:

Carpet Fire-Safety Requirements in Health Care Facilities  
Automatic Fire Extinguishing Protection  
Air Conditioning Systems  
Magnetic Door Locks  
Liquid Oxygen Walker Units  
Trash Containers  
Exit Through ICU and CCU  
Food Service Equipment and Facilities  
Lasers  
Pipetting in Hospital Laboratories  
Electron Microscopes  
Microwave Ovens  
Carcinogenic Chemicals  
Noise  
Bathtubs  
Laboratory Safety Equipment-Safety Showers and Eyewashes  
Electrical Safety  
Prohibition of Using Lead-Based Paint  
Storage, Preparation, and Consumption of Food and Beverages by  
Employees in Places of Work

**Availability**

Policy Manual MP-3, Part III lists current standards and is available from the address above.

**Keywords**

medical devices; air conditioning; consumer products; plumbing; food; safety; noise;

4. SOURCES OF STANDARDS AND INFORMATION ABOUT STANDARDS

Standards are usually obtained directly from the developing organization, or commercial distributors, or government repositories. A few libraries and standards organizations maintain collections of standards that are open to the public. This section lists distributors of standards in this country and abroad and libraries and information centers.

This information is provided as a service to readers seeking local sources for standards and related materials. It should be emphasized that no endorsement of comprehensiveness, quality, or cost should be inferred, and that potential users must perform their own evaluation.

The following organizations are listed in this section:

American Technical Publishers Ltd . . . . .	703
ASTM Information Center . . . . .	703
Book Supply Bureau . . . . .	704
Custom Standards Services, Inc. . . . .	704
Department of Defense Single Stock Point . . . . .	705
DECO - Document Engineering Co. Inc. . . . .	706
Document Center . . . . .	707
Global Engineering Documents . . . . .	708
Government Printing Office . . . . .	710
Information Handling Services . . . . .	711
Information Technology Standards Integrated,Center for Standards . . . . .	715
Linda Hall Library . . . . .	716
Morgan Technical Library . . . . .	717
National Center for Standards and Certification Information . . . . .	718
National Technical Information Service . . . . .	719
Standard Sales Group . . . . .	720





AMERICAN TECHNICAL PUBLISHERS LTD.

27-29 Knowl Piece  
Wilbury Way  
Hitchin Herts SG4 OSX  
England  
Telephone: 01462 433678      FAX: 01462 433678

Founded: 1980

Type of                      Private for profit  
Organization

Number of                      50 000 U.S. nongovernment standards and  
Standards                      reference books/videos and software.

Types of                      U.S. NONGOVERNMENT:  
Standards                      ACI                      American Concrete Institute  
                                 IIE                      Institute of Industrial Engineering  
                                 ANSI                      American National Standards Institute  
                                 ASTM                      American Society for Testing & Materials  
                                 ASM                      ASM International  
                                 NACE                      National Association of Corrosion  
                                                      Engineers  
                                 ISA                      Instrument Society of America  
                                 SAE                      Society of Automotive Engineers  
                                 TAPPI                      Technical Association of the Pulp & Paper  
                                                      Industry  
                                 SME                      Society of Manufacturing Engineers

Medium                      Paper, microfiche, CD-ROM.

Related                      Individual alphanumeric indexes available.  
Standards  
Services

ASTM INFORMATION CENTER

American Society for Testing and Materials  
100 Barr Harbor Drive  
West Conshohocken, Pennsylvania 19428-2959  
(610) 832-9550      FAX: (610) 832-9555  
e-mail: sbailey@localastm.org

Founded: 1898

Type of                      Nonprofit  
Organization

Types of                      All ASTM.  
Standards

Medium	Paper.
Related Standards Services	Handle telephone and mail inquiries on standards.

#### BOOK SUPPLY BUREAU

Head Office:  
A-68, South Extension I  
New Delhi-110 049  
India  
Telephone: 91-4611991, 4634222  
FAX: 91-011-462 7172

Founded: 1972

Type of Organization	Private for profit
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Number of Standards	210 000 standards.
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Types of Standards	ANSI, API, ASTM, BSI, DIN, IEC, IEEE, ISO, JIS
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Medium	Paper; CD-ROM of Information Handling Services.
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Related Standards Services	Issue monthly bulletin about new standards and revisions.
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#### CUSTOM STANDARDS SERVICES, INC.

Gregg Hammerman, President  
802 Oakland Avenue  
Suite 5  
Ann Arbor, Michigan 48104  
(800) 699-9277 FAX: (313) 930-9088  
e-mail: updates@aol.com  
WWW: <http://www.well.com/user/css>

Founded: 1994

Type of Organization	Private for profit
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Number of Standards	All standards of 35 U.S. nongovernment standards developers.
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Types of Standards	AAMA, AATCC, ABMA, ACI, AF&PA, AIA, AIIM, ANSI, API, ARI, ASA, ASCE, ASHRAE, ASME, ASTM, AWPA, AWS, BHMA, BIFMA, California BHFTI, city of Boston Firecodes, CGSB, CSA, EIA/TIA, GANA, GTA, FGMA, HFES, HPVA, ICBO, IEC, IFI, ISO, ISS, LSGA, MPIF, NACE, NEMA, NFPA, NSF, X3/ITI.
Medium	Paper, facsimile; eventually full online service.
Related Standards Services	Custom packages for coverage of federal OSHA and EPA regulations. Automatic standards updating service at no charge.

DEPARTMENT OF DEFENSE SINGLE STOCK POINT

	<p>Defense Printing Service Detachment Office          700 Robbins Avenue, Bldg. 4D          Philadelphia, Pennsylvania 19111-5094          (215) 697-2667/2179 FAX: (215) 697-1462          WWW: <a href="http://dtic.dla.mil:80/dps-phila/">http://dtic.dla.mil:80/dps-phila/</a></p>
Type of Organization	Government
Number of Standards	<p>45 000 U.S. Government.          7000 Nongovernment.          15 000 Other.</p>
Types of Standards	<p>U.S. GOVERNMENT:          All military and federal standards, specifications and related documents listed in the Department of Defense Index of Specifications and Standards.</p> <p>NONGOVERNMENT:          Standards are ONLY provided to DoD Agencies. These are primarily DoD adopted industry standards and specifications such as</p> <p>Aerospace Industries Association, National Aerospace Standards          American National Standards Institute          American Society of Mechanical Engineers          American Society for Testing and Materials          American Welding Society          Society of Automotive Engineers</p> <p>NON-U.S.:          NATO Standardization Agreements</p>
Availability of Prior Editions	Canceled documents archived by the DODSSP are available in printed format.
Medium	Paper, CD-ROM, magnetic tape, and on-line.
Indexing	The Department of Defense Index of Specifications

and Standards (DODISS) is available in printed book form and CD-ROM. It is a three part listing: alpha, numeric as well as numeric within Federal Supply Classes.

The printed edition is available from: Government Printing Office, Washington, DC 20402.

**Related  
Standards  
Services**

New and/or revised releases of military and federal specifications and Standards (including Qualified Products Lists) which are to be listed in the DODISS are available on a subscription basis for a single class or for as many individual classes as the subscriber choose upon payment of a subscription fee per Federal Supply Class.

The Acquisition Streamlining and Standardization Information System (ASSIST) is a relational database system for DoD-wide standardization and acquisition reform management. It links the DODISS, a directory of all activities with an interest in the Defense Standardization Program, a directory of all on-going standardization projects, and listings of all active and canceled Data Item Descriptions. Various reports can be developed including lists of referenced documents and specification trees (pyramids). ASSIST is available on-line as well as on CD-ROM.

**DECO - DOCUMENT ENGINEERING CO. INC.**

Eric Molinari, President  
15210 Stagg Street  
Van Nuys, California 91405-1092  
(818) 782-1010 FAX: (818) 782-2374  
e-mail: doceng@doceng.com  
WWW: <http://www.doceng.com/doceng>

Founded: 1958

**Type of  
Organization**

Private for profit

**Number of  
Standards**

200 000 U.S. Government.  
50 000 Nongovernment.

**Types of  
Standards**

U.S. GOVERNMENT:  
All military and federal standards, specifications and handbooks, QPL's (Qualified Products Lists) and related documents listed in the DoD (Department of Defense) Index. CFR, DESC, DID, FAR, FIPS, NASA.



U.S. NONGOVERNMENT:

AA, AGMA, AIA, ANSI\*, ASA\*, ASME, ASTM\*, ASQC, ATA, AWS, EIA, IEEE, IPC, ISA, NEMA\*, NFPA, SAE\*, UL\*.

NON-U.S.:

AECMA\*, BSI\*, CECC\*, CEN, CENELEC, DIN\*, IEC\*, ISO\*, SBAC\*.

\*Copyright license agreement in place

This is a partial listing of available standards.

Historical Documents

Comprehensive DODISS collection dating prior to 1940. Many industry standards are also available.

Medium

Paper. Limited items available in electronic format.

Indexing

Indexes are conventional alphanumeric. All indexes are available in hard copy.

Related Standards Services

Automatic Updating Service

Library Audits

Military Sheet Form Standards (MS, AN, AND)

Book Sets and Updating Service

DOCUMENT CENTER

Claudia Bach, President

1504 Industrial Way, Unit 9

Belmont, California 94002

(415) 591-7600

FAX: (415) 591-7617

e-mail: [info@doccenter.com](mailto:info@doccenter.com)

WWW: <http://www.doccenter.com/doccenter>

Type of Organization

Private for profit

Number of Standards

300 000 U.S. Government.

100 000 U.S. Nongovernment.

50 000 Non-U.S..

Types of Standards

U.S. GOVERNMENT:

All military standards and specifications, etc., as listed in the Department of Defense Index of Specifications and Standards. Other military standards (Army, Air Force, Defense Logistics Agency, DESC, Navy, etc.). Other federal standards (NASA, FCC, FAA, GSA, etc.).

U.S. NONGOVERNMENT

All ASTM, EIA, ANSI, SAE, AWS, IPC, IEEE, SEMI, NFPA, API, AIIM, ASHRAE, ATA, and others.

INTERNATIONAL AND FOREIGN:  
IEC, ISO, BSI, DIN, VDE, JIS, CSA, EU and others.

OTHER TECHNICAL AND REGULATORY INFORMATION:  
GPO Publications, such as the Code of Federal Regulations, etc.  
NTIS Publications, such as the FIPS, etc.  
Draft Standards  
Canceled Standards

Availability of Prior Editions	Many canceled documents are in stock. Those not in stock can normally be quoted for price and availability.
Medium	Primarily paper, although some microfiched copies are available. Catalog available to search at no charge on the Internet.
Indexing	Alphanumeric. Historical (such as the DODISS Canceled Documents Index).
Related Standards Services	Automatic Updating Service.

GLOBAL ENGINEERING DOCUMENTS  
A Division of Information Handling Services

Tom Littman, V.P. Operations  
15 Inverness Way East  
Englewood, Colorado 80112  
(303) 792-2181 FAX: (303) 397-7935

Founded: 1968

Type of Organization	Private for profit
Number of Standards	More than one million new and historical documents in-stock.
Types of Standards	U.S. GOVERNMENT: All military and federal standards, and specifications, handbooks, Commercial Item Descriptions (CID's), Data Item Descriptions (DID's), Qualified Products Lists (QPL's), directives and regulations including Armed Services Procurement Regulations/Defense Acquisition Regulations. Also all NATO standards and quality assurance publications, standardization publications of the Army, Navy, and Air Force, and Federal Acquisition Regulations.

Standards and related publications of the following federal agencies are also stocked: NASA, NIST, Nuclear Regulatory Commission (NRC), DOT, FAA, FCC, GPO, GSA, HUD, OSHA, AND NTIS.

U.S. NON-GOVERNMENT STANDARDS:

ACI	American Concrete Institute
AGA	American Gas Association
AGMA	American Gear Manufacturers Association
AIA	American Institute of Architects
AISC	American Institute of Steel Construction
ANS	American Nuclear Society
ANSI	American National Standards Institute
API	American Petroleum Institute
ARI	Air Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ASA	Acoustical Society of America
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AWS	American Welding Society
AWWA	American Water Works Association
EIA	Electronic Industries Association
ICBO	International Conference of Building Officials
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society
IPC	The Institute for Interconnecting and Packaging Electronic Circuits
ISA	Instrument Society of America
MSS	Manufacturers Standardization Society of the Valve and Fittings Industry
NACE	National Association of Corrosion Engineers
NAS	National Aerospace Standards (produced by Aerospace Industries Association)
NEMA	National Electrical Manufacturers Association
NFPA	National Fire Protection Association
NFPA	National Fluid Power Association
RTCA	Radio Technical Commission for Aeronautics
SAE	Society of Automotive Engineers
SSPC	Steel Structures Painting Council
TAPPI	Technical Association of the Pulp and Paper Industry
UL	Underwriters Laboratories

INTERNATIONAL AND NON-U.S.:

AFNOR	Association Francaise De Normalisation
BSI	British Standards Institution
CCITT	International Telegraph & Telephone Consultative Committee
CEN	Comite Europeen de Normalisation (European Committee for Standardization)
CENELEC	Comite Europeen de Normalisation d'Electrotechnique (European Committee for Electrotechnical Standardization)
CNS	Chinese National Standards (Republic of China)
CSA	Canadian Standards Association
DEF	British Defense Standards
DIN	Deutsches Institut für Normung
IEC	International Electrotechnical Commission
EU	European Union
EN	Europeen Normalisation
ISO	International Organization for Standardization
ITU	International Telecommunications Union
JIS	Japanese Industrial Standards
SAA	Standards Association of Australia
VDE	Verband Deutscher Elektrotechniker

**Availability of  
Prior Editions**

Global maintains an extensive library of historical documents, some dating back as far as the 1920's. They also maintain stock on nearly all prior issues of DODISS documents.

**Medium**

Paper.

**Indexing**

Global's Product Selector is a CD-ROM index listing of over 200 000 current documents within their inventory. It provides document number, title, status, as well as pricing on individual documents.

**Foreign Sales  
Offices for  
U.S. Standards**

Eastwood, N.S.W., Australia; London, Ontario Canada; Heliopolis, Egypt; Clichy, France; Planegg, Germany; Kowloon, Hong Kong; Tel Aviv, Israel; Mexico City, Mexico; Berkshire, UK. Requests from Central and South America are handled by the Global Information Center, North Miami Beach, Florida.

**Related  
Standards  
Services**

The Global Standard & Specification Bulletin provides weekly updates of any new and revised documents.

**GOVERNMENT PRINTING OFFICE**

Superintendent of Documents  
Washington, DC 20402  
(202) 512-1800

FAX: (202) 512-2250

Founded: 1895

Type of  
Organization

Government

Types of  
Standards

Neither the GPO nor the Superintendent of Documents issues or publishes standards *per se*. However, as the principal sales agency for Government publications, the Superintendent of Documents' inventory of available publications contains hundreds that relate to standards or which contain standards issued by the various Departments and agencies of the Government. A few examples of the publications available are: The Department of Defense Index of Specifications and Standards; Standards for Specifying Construction of Airports; Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects; Government Paper Specifications Standards.

The DOD's Military Specifications and Standards and GSA's Federal Specifications and Standards are not available from GPO. Only the indexes for these publications are distributed by GPO. The standards and specifications are available from the DoD Single Stock Point and the GSA Specifications Unit, respectively.

Medium

Paper.

#### INFORMATION HANDLING SERVICES

Michael J. Timbers, Chief Executive Officer, IHS Group

15 Iverness Way East  
Englewood, Colorado 80150  
(800) 716-3447, ext. 102 (U.S.)  
+1(303) 397-2506 (outside U.S.)  
e-mail: info@ihs.com  
WWW: <http://www.ihs.com>

Founded: 1959

Type of  
Organization

Private for profit

Number of  
Standards

298 000 U.S. Government.  
83 000 U.S. Nongovernment.  
24 000 International.  
144 000 Non-U.S.



**Types of  
Standards**

**U.S. GOVERNMENT:**

All active Military Standards, Specifications and related documents  
Federal Standards, Specifications and related documents  
Military/Federal QPLs  
Military Handbooks and Bulletins  
MS, AND, ANA, AN Drawings  
USAF/NAF Standards  
DESC/SMD Drawings  
Data Item Descriptions  
DoD directives  
Naval Instructions and Directives  
Commercial Item Descriptions  
Joint Army Navy Specs  
Federal Construction Regulations and Standards  
Federal Aviation Administration Standards  
NATO Documents  
NASA Documents  
Army Documents  
Department of Energy Documents  
Nuclear Regulatory Commission Regulations and Standards

**U.S. NONGOVERNMENT:**

Aluminum Association (AA)  
American Association of State Highway & Transportation Officials (AASHTO)  
American Association of Textile Chemists and Colorists (AATCC)  
American Bearing Manufacturers Association (ABMA)  
American Bureau of Shipping (ABS)  
American Concrete Institute (ACI)  
American Gas Association (A.G.A.)  
American Gear Manufacturers Association (AGMA)  
Asphalt Institute (AI)  
Aerospace Industries Association of America, Inc. (AIA[NAS])  
American Institute of Architects (AIA)  
American Institute of Aeronautics & Astronautics (AIAA)  
American Institute of Chemical Engineers (AIChE)  
Association for Information & Image Management (AIIM)  
American Institute of Steel Construction (AISC)  
American Iron & Steel Institute (AISI)  
American Nuclear Society (ANS)  
American National Standards Institute (ANSI)  
American Petroleum Institute (API)  
American Railway Engineering Association (AREA)  
Air-Conditioning & Refrigeration Institute (ARI)  
Aeronautical Radio, Inc. (ARINC)  
Acoustical Society of America (ASA)  
The American Society of Agricultural Engineers (ASAE)  
American Society of Civil Engineers (ASCE)  
American Society of Heating, Refrigerating & Air-Conditioning Engineers (ASHRAE)  
American Society of Mechanical Engineers (ASME)

American Society of Nondestructive Testing (ASNT)  
 American Society for Quality Control (ASQC)  
 American Society of Sanitary Engineering (ASSE)  
 American Society for Testing and Materials (ASTM)  
 American Welding Society (AWS)  
 American Water Works Association (AWWA)  
 American Association for Laboratory Accreditation (A2LA)  
 Builders Hardware Manufacturers Association (BHMA)  
 Civil Engineering Data (CED)  
 Compressed Gas Association (CGA)  
 Cooling Tower Institute (CTI)  
 Electronic Industries Association (EIA)  
 General Motors (GM)  
 Gypsum Association (GA)  
 Gas Processors Association (GPA)  
 Insulated Cable Engineers Association (ICEA)  
 Institute of Electrical & Electronics Engineers (IEEE)  
 Illuminating Engineering Society of North America (IESNA)  
 Industrial Fasteners Institute (IFI)  
 The Institute for Interconnecting & Packaging Electronic Circuits (IPC)  
 ISA - The International Society for Measurement and Control (ISA)  
 International Society for Hybrid Microelectronics (ISHM)  
 Manufacturers Standardization Society of the Valve and Fittings Industry (MSS)  
 NACE International (NACE)  
 National Environmental Balancing Bureau (NEBB)  
 National Electrical Manufacturers Association (NEMA)  
 National Fire Protection Association (NFPA)  
 National Fluid Power Association (AFP[A])  
 National Information Standards Organization (NISO)  
 NSF International (NSF)  
 Nondestructive Testing Information Analysis Center (NTIAC)  
 Pipe Fabrication Institute (PFI)  
 Plastics Technical Evaluation Center (PLASTEC)  
 Plastics Pipe Institute (PPI)  
 Reliability Analysis Center (RAC)  
 Radio Technical Commission for Aeronautics (RTCA)  
 Resistance Welder Manufacturers Association (RWMA)  
 SAE International (SAE)  
 Semiconductor Equipment & Materials International (SEMI)  
 Steel Joist Institute (SJI)  
 Sheet Metal & Air Conditioning Contractors' National Association, Inc. (SMACNA)  
 Society of Motion Picture & Television Engineers (SMPTE)  
 Steel Structures Painting Council (SSPC)  
 Technical Association of the Pulp and Paper Industry (TAPPI)

Underwriters Laboratories Inc. (UL)  
X3 Information Technology (X-3 ITI)

INTERNATIONAL AND REGIONAL:

European Association for Materials of Aerospace  
Construction (AECMA)  
CENELEC Electronic Components (CECC)  
European Committee for Standardization (CEN)  
European Committee for Electrotechnical Standardization (CENELEC)  
Conference of European Postal and  
Telecommunications Administration (CEPT)  
European Council (EC)  
Electronic Quality Assurance Documents service (EQADS)  
European Computer Manufacturers Association (ECMA)  
European Telecommunications Standards Institute (ETSI)  
International Atomic Energy Agency (IAEA)  
International Quality Assessment System for Electronic Components  
(IECQ)  
European Organization for Civil Aviation  
Electronics (EUROCAE)  
International Civil Aviation Organization (ICAO)  
International Commission on Illumination (CIE)  
International Electrotechnical Commission (IEC)  
International Organization for Standardization (ISO)  
International Telecommunications Union (ITU)  
Joint Technical Committee 1 (JTC 1) of ISO and IEC  
North Atlantic Treaty Organization (NATO)

NON-U.S.:

Association Francaise de Normalisation (AFNOR)  
British Standards Institution (BSI)  
Civil Aviation Authority (CAA)  
Canadian General Standards Board (CGSB)  
Chinese National Standards - Taiwan (CNS)  
Canadian Pulp and Paper Association (CPPA)  
Canadian Standards Association (CSA)  
Deutsches Institut für Normung e. V. (DIN)  
Japanese Industrial Standards (JIS)  
British Ministry of Defense (MOD UK)  
Standards Association of Australia (SAA)  
Saudi Arabian Standards Organization (SASO)  
The Society of British Aerospace Companies (SBAC)  
Standards New Zealand (SNZ)  
Underwriters' Laboratories of Canada (ULC)  
Verein Deutscher Ingenieure (VDI)

Medium

Microfilm, microfiche, CD-ROM, magnetic tape, on-line,  
Internet.

Indexing

Alphanumeric and by subject in printed indexes. Worldwide  
Standards index on CD-ROM, on-line or Internet allows multi-  
lingual searching in English French, German and Spanish. Search  
by document number, document date, developing organization,  
keyword, revision status, document type, and other bibliographic

details. This index also cross-searches to Military Specs and Standards.

**Related Standards Services** Perinorm, a CD-ROM based index cites all the standards of BSI, AFNOR, DIN, ISO, IEC, CEN/CENELEC, JIS, ASTM, IEEE, UL and standards data from Australia, the Netherlands and Switzerland.

**Foreign Sales** Sales representatives and distributors throughout the U.S. and in over 90 foreign countries.

**Trade Names** Extension 99, Hot Specs, VSMF.

## **INFORMATION TECHNOLOGY STANDARDS INTEGRATED (ITSI), CENTER FOR STANDARDS**

Defense Information Systems Agency  
Joint Interoperability Engineering Organization  
10701 Parkridge Blvd.  
Reston, Virginia 22090  
(703) 735-8338  
e-mail: [helpdesk@itsi.disa.mil](mailto:helpdesk@itsi.disa.mil)  
WWW: <http://www.itsi.disa.mil>

Founded: 1994

**Type of Organization** Government

**Number of Standards** The more than 500 government and nongovernment standards listed in

- Volume 7, Adopted information Technology Standards, of the Technical Architecture for Information Management (TAFIM), and
- Mil-STD-187-700A, Interoperability and Performance Standards for the Defense Information System.

**Type of Standards** The ITSI Standards Document Library is a database of the most important documents needed to build DoD information systems. It contains policy, guidance, and reference documents, but the bulk of the collection is government and nongovernment standards.

Abstracts are provided for all standards. More than one-third of them are in electronic format available for downloading on-line. However, most nongovernment standards (e.g., ISO, ANSI, IEEE) cannot be downloaded due to copyright restrictions. Sources for these standards are included in the database.

Medium	On-line.
Indexing	In addition to alphanumeric, standards are organized by TAFIM service area and by standards developing organization.
Related Standards Services	<p>The on-line topic "Standards Surveys and Assorted References" provides an up-to-date overview of existing and evolving standards and their relationship to information systems.</p> <p>The on-line topic "DoDEC\EDE Conventions" contain's electronic data interchange conventions for DoD's electronic commerce initiatives.</p>

#### LINDA HALL LIBRARY

Mary Moeller, Head of Reference Services  
 5109 Cherry Street  
 Kansas City, Missouri 64110  
 (816) 363-4600 FAX: (816) 926-8790  
 e-mail: [reference@lhl.lib.mo.us](mailto:reference@lhl.lib.mo.us)  
 WWW: <http://www.lhl.lib.mo.us>

Founded: 1946

Type of Organization	Nonprofit
Number of Standards	150 000 Standards
Types of Standards	<p>U.S. GOVERNMENT:          All military and federal specifications, standards and related documents.</p>

U.S. NONGOVERNMENT:  
 Standards of three hundred professional societies and trade associations in the private sector.

Availability of Prior Editions	<p>American Gas Association - AGA standards</p> <p>American National Standards Institute - ANSI approved engineering standards.</p> <p>American Society for Testing and Materials - Annual Book of ASTM standards.</p> <p>American Society of Civil Engineers - ASCE standards</p> <p>American Society of Mechanical Engineers - ASME Boiler and Pressure Vessel Code; ASME codes and standards.</p> <p>Institute of Electrical and Electronics Engineers - IEEE standards.</p>
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National Fire Protection Association - National Fire Codes.  
Society of Automotive Engineers - SAE Handbook of Ground Vehicle  
standards; Aerospace standards.

Medium Paper, some microfiche.

Related Photocopy service.  
Standards  
Services

#### MORGAN TECHNICAL LIBRARY

National Fire Protection Association  
1 Batterymarch Park  
Quincy, Massachusetts 02269-9101  
(617) 984-7445 FAX: (617) 984-7060  
e-mail: library@NFPA.org  
WWW: <http://www.wpi.edu/nfpe/nfpa.html>

Founded: 1945

Type of Nonprofit  
Organization

Types of U.S. NONGOVERNMENT:  
Standards NFPA National Fire Protection Association  
UL Underwriters Laboratories

NON-U.S.:  
Partial files on Canadian and UK standards organizations,  
primarily those standards relating to fire safety.

INTERNATIONAL:  
Partial file of standards relating to fire safety from ISO and IEC

Availability of Historic files are maintained for the National  
Prior Editions Fire Protection Association, 1896-current.

Medium Paper for current files.  
Microfiche for historic files.

Indexing Indexes are those supplied by issuing body.

Related Provide photocopies of out-of-print National Fire  
Standards Protection Association Standards. Authentication  
Services services available.

**NATIONAL CENTER FOR STANDARDS AND CERTIFICATION INFORMATION (NCSCI)**

National Institute of Standards and Technology  
Bldg. 820, Room 164  
Gaithersburg, Maryland 20899  
(301) 975-4040 FAX: (301) 926-1559  
e-mail: [joverman@nist.gov](mailto:joverman@nist.gov)  
WWW: <http://www.nist.gov>

Founded: 1965

**Type of  
Organization**

Government

**Types of  
Standards in  
Collection**

UNITED STATES:  
Federal agency (technical regulations)  
Federal and military standards  
Nongovernment

NON-U.S.:  
International  
Regional  
Foreign national

**Medium**

Paper, CD-ROM and microform.

**Related  
Standards  
Services**

Standards can be viewed from the collection, which is in paper, CD-ROM and microform. Product subject listings are provided in response to inquiries, but copies of standards are not distributed. NCSCI responds to the needs of government, industry and the general public for information on domestic and foreign standards, regulations, certification, and other standards related activities and foreign requests for information on existing U.S. standards and certification information. The objectives are accomplished by: maintaining a microform and hard copy collection of engineering standards and specifications, regulations, certification rules, directories, reference books and special publications; responding to inquiries on the existence, source, and availability of standards and related documents; developing and publishing directories of standards, certification, testing and related information; to the degree possible, responding to trade related queries regarding regulations and other requirements of foreign countries for the export of U.S. manufactured products.

The NCSCI Reference Collection is open to visitors Monday through Friday from 8:30 a.m. To 5:00 p.m.

NATIONAL TECHNICAL INFORMATION SERVICE

U.S. Department of Commerce  
5285 Port Royal Road  
Springfield, Virginia 22161  
(703) 487-4650 FAX: (703) 321-8547  
1-800-553-6847  
WWW: <http://www.fedworld.gov>

Founded: 1970 (predecessor 1946)

Type of  
Organization

Governmental

Types of  
Standards

U.S. GOVERNMENT:  
Some military standards  
Nuclear  
Medical  
Environmental  
Food and Drug  
  
U.S. NONGOVERNMENT:  
American National Standards Institute publications  
cited in government standards.

Availability of  
Prior Editions

Retain all prior editions.

Medium

Paper, microfiche, diskette, CD-ROM, on-line, and  
audiovisual FedWorld®.

Indexing

Government Report Abstracts and Index Journal Published  
biweekly.

Foreign Sales  
Offices for  
U.S. Standards

NTIS has distribution agreements in 42 countries  
including:

Argentina  
Suministros Asociados S.A.  
Buenos Aires

Australia  
Info-Line  
Broadway N.S.W.

Brazil  
PTI Ltda.  
Sao Paulo

England  
Microinfo Limited  
Alton, Hampshire

France  
World Data  
Paris

India  
Allied Publishers Ltd.  
Madras

Italy  
Diffusione Edizioni Anglo-Americane (DEA)  
Rome

Japan  
Mitsubishi Research Institute Inc.  
Tokyo

The Netherlands  
Bibliotheek TU  
Delft

Portugal  
Consulplano SA  
Lisbon

Sweden  
Studsvik Energiteknik AB  
Nykoping

Taiwan  
National Science Council  
Science and Technology Information Center  
Taipei

#### STANDARDS SALES GROUP

Rolf Burckhardt, Owner  
15885 Main Street  
Unit 250  
Hesperia, California 92345-3403  
(619) 947-6100 FAX: (619) 947-2899

#### Type of Organization

Private for profit

#### Number of Standards

25 000 U.S. nongovernment.  
50 000 Non-U.S.  
25 000 International.

#### Types of Standards

UNITED STATES:  
AMMI, ANSI, IEE, IPC, LIA, NEMA, NFPA, SEMI, UL and others

INTERNATIONAL:  
CIE, IEC, IMO, ISO, ITU, WHO

NON-U.S.:  
EU directives, CEN, CENELEC, CEPT, ETSI, AENOR, AFNOR,  
AUSTEL, BAPT, BAPT, BGBI, BSI, CEI, CNET, Communications Canada,  
CSA, DIN, FTZ, FZA, GOST, JIS, MPR, ÖNORM, SA, SASO, VBG, VDE,  
VDI, Vfg, and others.

OTHER TECHNICAL AND REGULATORY INFORMATION:  
Code of Federal Regulations  
Draft standards  
Foreign laws and regulations

**Availability of  
Prior Editions**

Some withdrawn standards, drafts, and laws.

**Medium**

Paper.

**Indexing**

Alphanumeric.

**Related  
Standards  
Services**

Document Library Monitoring Service.  
Automatic Updating Service.  
Foreign Technical Document Translations.





5. SUBJECT INDEX AND RELATED LISTINGS

5.1 SUBJECT INDEX (ORGANIZATIONS BY MAJOR SUBJECTS)

Government and nongovernment organizations are listed in alphabetic order in their respective sections, and are listed here within forty-three subject categories. These categories were selected after reviewing the keywords of all entries.

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Textiles and Clothing . . . . .	755
Transportation . . . . .	756
Wood and Wood Products . . . . .	757



## **ACOUSTICS AND NOISE CONTROL**

Acoustical Society of America  
Air Conditioning and Refrigeration Institute  
Air Movement and Control Association  
American Association of State Highway and Transportation Officials  
American Helicopter Society  
American Institute of Physics  
American Insurance Services Group  
American Society for Testing and Materials  
American Speech-Language and Hearing Association  
Association of Wall and Ceiling Industries - International  
Compressed Air and Gas Institute  
Construction Industry Manufacturers Association  
Environmental Protection Agency  
Federal Aviation Administration (DOT)  
Helicopter Association International  
Home Ventilating Institute  
Inchcape Testing Services  
Institute of Environmental Sciences  
ITA, The International Recording Media Association  
Lead Industries Association  
National Environmental Balancing Bureau  
Outdoor Power Equipment Institute  
Sheet Metal and Air Conditioner Contractors National Association  
Snowmobile Safety and Certification Committee  
Society of Automotive Engineers  
Veterans Affairs, Department of

## **AEROSPACE AND AVIATION**

Aeronautical Radio, Inc.  
Aerospace Industries Association of America  
Air Transport Association of America  
Aircraft Owners and Pilots Association  
American Helicopter Society  
American Institute of Aeronautics and Astronautics  
American Society for Testing and Materials  
Department of Defense  
Federal Aviation Administration (DOT)  
Federal Coordinator for Metrology (Commerce)  
Flight Safety Foundation  
General Aviation Manufacturers Association  
Helicopter Association International  
National Aeronautics and Space Administration  
Radio Technical Commission for Aeronautics  
Society of Allied Weight Engineers  
Society of Automotive Engineers  
Southwest Research Institute  
Standards Committee for Hi-Lok, Hi-Tigue, and Hi-Lite Products

## **AGRICULTURE**

American Association of Cereal Chemists  
American Association of Nurserymen  
American Society of Agricultural Engineers  
American Soybean Association  
AOAC, International  
Association of American Plant Food Control Officials  
Association of Official Seed Analysts  
Association of Official Seed Certifying Agencies  
Blue Anchor  
Corn Refiners Association  
Dairy and Food Industries Supply Association  
Department of Agriculture  
DFA of California  
Diamond Walnut Growers  
Entomological Society of America  
Environmental Industry Association  
Equipment Manufacturers Institute  
Irrigation Association  
Manufacturers Institute  
National Association of Photographic Manufacturers  
National Bark and Soil Producers Association  
National Clay Pot Manufacturers Association  
National Coffee Association of the USA  
National Cotton Council of America  
National Cottonseed Products Association  
National Fertilizer Solutions Association  
National Institute of Oilseed Products  
National Lime Association  
National Oilseed Processors Association  
Nebraska Power Laboratory  
Outdoor Power Equipment Institute  
Society of Automotive Engineers  
Turfgrass Producers International  
United States Hide, Skin and Leather Association  
USA Rice Federation

## **AIR CONDITIONING AND REFRIGERATION**

(Also see Heating, Ventilating and Air Handling)

Air-Conditioning and Refrigeration Institute  
Air Conditioning Contractors of America  
American Insurance Services Group  
American Society of Heating, Refrigerating and Air-conditioning Engineers  
Automotive Refrigeration Products Institute  
Commercial Refrigeration Manufacturers Association  
Inchcape Testing Services  
International Institute of Ammonia Refrigeration  
International Mobile Air Conditioning Association  
Mechanical Contractors Association of America  
National Association of Plumbing-Heating-Cooling Contractors  
National Environmental Balancing Bureau



Sheet Metal, and Air Conditioning Contractors National Association  
Solar Rating and Certification Corporation  
Veterans Affairs, Department of

## **BUILDING**

(Also see Air-Conditioning; Concrete; Heating; Plumbing; and Wood)

American Architectural Manufacturers Association  
American Forest and Paper Association  
American Gas Association  
American Hardboard Association  
American Institute of Architects  
American Institute of Steel Construction  
American Insurance Services Group  
American Laminators Association  
American Lighting Association  
American Pipe Fittings Association  
American Society for Testing and Materials  
American Society of Agricultural Engineers  
American Society of Civil Engineers  
American Society of Mechanical Engineers  
American Society of Plumbing Engineers  
American Society of Safety Engineers  
Asphalt Roofing Manufacturers Association  
Associated General Contractors of America  
Associated Locksmiths of America  
Association of Engineering Geologists  
Association of Wall and Ceiling Industries, International  
Brick Institute of America  
Builders Hardware Manufacturers Association  
Building Owners and Management Association International  
Building Technologies (DOE)  
Ceiling and Interior Systems Construction Association  
Concrete Reinforcing Steel Institute  
Concrete Sawing and Drilling Association  
Construction Specifications Institute  
Council of American Building Officials  
Department of Defense  
Door and Hardware Institute  
Door Operator and Remote Controls Manufacturers Association  
Expanded Shale, Clay and Slate Institute  
Factory Mutual Research Corporation  
Gas Appliance Manufacturers Association  
General Services Administration  
Glass Association of North America  
Home Automation Association  
Housing and Urban Development, Department of  
Illuminating Engineering Society of Northern America  
Insulated Steel Door Systems Institute  
International Association of Electrical Inspectors  
International Association of Plumbing and Mechanical Officials  
International Cast Polymer Association  
International Conference of Building Officials

Lightning Protection Institute  
Manufactured Housing Institute  
Marble Institute of America  
Metal Building Manufacturers Association  
Multi-Housing Laundry Association  
National Air Duct Cleaners Association  
National Association of Architectural Metal Manufacturers  
National Association of Garage Door Manufacturers  
National Association of Industrial and Office Properties  
National Association of Store Fixture Manufacturers  
National Building Granite Quarries Association  
National Concrete Masonry Association  
National Conference of States on Building Codes and Standards  
National Dimension Manufacturers Association  
National Electrical Contractors Association  
National Elevator Industry  
National Environmental Balancing Bureau  
National Fenestration Rating Council  
National Institute of Building Sciences  
National Kitchen and Bath Association  
National Lime Association  
National Oak Flooring Manufacturers Association  
National Roof Deck Contractors Association  
National Roofing Contractors Association  
National Sash and Door Jobbers Association  
National School Supply and Equipment Association  
National Wood Window and Door Association  
Plumbing and Drainage Institute  
Portland Cement Association  
Post-Tensioning Institute  
Rack Manufacturers Institute  
Redwood Inspection Service  
Resilient Floor Covering Institute  
Screen Manufacturers Association  
Sealed Insulating Glass Manufacturers Association  
Southern Building Code Congress International  
Southern Forest Products Association  
Steel Deck Institute  
Steel Door Institute  
Steel Joist Institute  
Steel Window Institute  
Tile Council of America  
United Lightning Protection Association  
Water Systems Council  
Wood Molding and Millwork Producers Association  
Woodwork Institute of California  
Veterans Affairs, Department of

#### **BUSINESS, FINANCE AND INSURANCE**

Accredited Standards Committee X9 - Financial Services  
AIM USA  
Alliance of American Insurers

American Association of Advertising Agencies  
American Automobile Association  
American National Metric Council  
American National Standards Institute  
American Statistical Association  
Association of American Railroads  
Association of Records Managers and Administrators  
Data Interchange Standards Association  
Factory Mutual Research Corporation  
Federal Trade Commission  
Financial Accounting Foundation  
Foreign Agricultural Service (USDA)  
Health Care Financing Administration (DHHS)  
Industrial Risk Insurers  
Institute of Internal Auditors  
Internal Revenue Service (Treasury)  
International Trade Administration (Commerce)  
National Association of Purchasing Management  
National Cargo Bureau  
National Institute of Standards and Technology (Commerce)  
National Insurance Crime Bureau  
National Retail Federation  
Occupational Safety and Health Administration (Labor)  
Project Management Institute  
U.S. Council for International Business  
U.S. Customs Service (Treasury)  
U.S. Mint (Treasury)  
U.S. Patent and Trademark Office (Commerce)  
U.S. Trade Representative, Executive Office of the President  
Uniform Code Council

## **COMMUNICATIONS**

Advanced Television Systems Committee  
Aeronautical Radio, Incorporated  
Air Transport Association of America  
Alliance for Telecommunications Industry Solutions  
American Association of Advertising Agencies  
American Design Drafting Association  
American National Standards Institute  
Association for Information and Image Management, International  
Association for Suppliers of Printing and Publishing Technologies  
Association of American Publishers  
Association of American Railroads  
ATM Forum  
Automatic Meter Reading Association  
Bellcore  
Binding Industries of America  
Book Industry Study Group  
Book Manufacturers Institute  
Corporation for Open Systems International  
Data Interchange Standards Association  
Department of Defense

Electronic Media Rating Council  
Federal Communications Commission  
Federal Coordinator for Meteorology (Commerce)  
Graphic Communications Association  
Gravure Association of America  
Home Automation Association  
Information Resources Management (GSA)  
Information Technology Industry Council  
Institute of Electrical and Electronics Engineers  
Insulated Cable Engineers Association  
International Communications Industries Association  
Internet Society  
ITA, The International Recording Media Association  
Laser Institute of America  
Library Binding Institute  
National Association of Broadcasters  
National Federation of Abstracting and Information Services  
National Information Standards Organization  
National Institute of Standards and Technology (Commerce)  
National Marine Electronics Association  
National Printing Ink Research Institute  
National Telecommunications and Information Administration (Commerce)  
Network Management Forum  
Postal Service  
Printing Industries of America  
Radio Technical Commission for Aeronautics  
Radio Technical Commission for Maritime Services  
Recording Industry Association of America  
Rural Utilities Service (USDA)  
Security Industry Association  
Semiconductor Equipment and Materials Institute  
Society for Technical Communication  
Society of Cable Telecommunications Engineers  
Society of Motion Picture and Television Engineers  
Southwest Research Institute  
Telecommunications and Information Standards Directorate (State)  
Traffic Audit Bureau

#### **COMPUTERS AND INFORMATION TECHNOLOGY**

Accredited Standards Committee X9 - Financial Services  
AIM USA  
American Association of Motor Vehicle Administrators  
American Association of State Highway and Transportation Officials  
American Congress on Surveying and Mapping  
American Design Drafting Association  
American Institute for Design and Drafting  
American National Standards Institute  
American Society for Testing and Materials  
American Statistical Association  
American Textile Manufacturers Institute  
Association for Computing Machinery  
Association for Information and Image Management, International



Association of American Railroads  
Association of Records Managers and Administrators  
ATM Forum  
Automatic Meter Reading Association  
Book Industry Study Group  
Bureau of the Census (Commerce)  
Collection Services (Library of Congress)  
Construction Specifications Institute  
Corporation for Open Systems International  
Data Processing Management Association  
Electronic Industries Association  
Energy Information Administration (DOE)  
Federal Coordinator for Meteorology (Commerce)  
Geological Survey (Interior)  
Graphic Communications Association  
Home Automation Association  
Information Resources Management (GSA)  
Information Technology Industry Council  
Information Technology Services (Library of Congress)  
Institute of Electrical and Electronics Engineers  
Internal Revenue Service (Treasury)  
Internet Society  
National Archives and Records Administration (GSA)  
National Federation of Abstracting and Information Services  
National Information Standards Organization  
National Institute of Standards and Technology (Commerce)  
National Telecommunications and Information Administration (Commerce)  
Network Management Forum  
Personal Computer Memory Card International Association  
Printing Industries of America  
Project Management Institute  
Radio Technical Commission for Maritime Services  
Society for Information Display  
Society of Allied Weight Engineers  
Special Libraries Association  
U.S. Geological Survey (Interior)  
U.S. Patent and Trademark Office (Commerce)  
U.S. Product Data Association  
Uniform Code Council  
VMEBUS International Trade Association

#### **CONCRETE, MASONRY AND CERAMIC PRODUCTS**

American Concrete Institute  
American Concrete Pavement Association  
American Concrete Pipe Association  
American Concrete Pressure Pipe Association  
American Society for Testing and Materials  
Association of Engineering Geologists  
Brick Institute of America  
Concrete Plant Manufacturers Bureau  
Concrete Reinforcing Steel Institute  
Concrete Sawing and Drilling Association



Expanded Shale, Clay and Slate Institute  
International Masonry Institute  
Masonry and Concrete Saw Manufacturers Institute  
Materials and Methods Standards Association  
National Building Granite Quarries Association  
National Clay Pipe Institute  
National Concrete Masonry Association  
National Lime Association  
National Terrazzo and Mosaic Association  
Portland Cement Association  
Post-Tensioning Institute  
Precast/Prestressed Concrete Institute  
Refractories Institute  
Scaffolding, Shoring and Forming Institute  
Stucco Manufacturers Association  
Technical Ceramics Manufacturers Association  
Tile Council of America  
Truck Mixer Manufacturers Bureau  
Wire Reinforcement Institute

### **CONSTRUCTION**

(Also see Concrete, Masonry and Ceramic Products)

Air Conditioning Contractors of America  
American Association of State Highway and Transportation Officials  
American Fence Association  
American Forest and Paper Association  
American Hardboard Association  
American Institute of Steel Construction  
American Institute of Timber Construction  
American Insurance Services Group  
American Iron and Steel Institute  
American Laminators Association  
American Lumber Standards Committee  
American Pipe Fittings Association  
American Railway Engineering Association  
American Road and Transportation Builders Association  
American Society for Testing and Materials  
American Society of Civil Engineers  
American Society of Mechanical Engineers  
American Society of Sanitary Engineering  
American Water Works Association  
American Wood-Preservers Association  
American Wood-Preservers Bureau  
Asphalt Emulsion Manufacturers Association  
Asphalt Institute  
Asphalt Roofing Manufacturers Association  
Associated Air Balance Council  
Associated General Contractors of America  
Association of Asbestos Cement Pipe Producers  
Association of Engineering Geologists  
Association of Higher Education Facilities Officers  
Association of Wall and Ceiling Industries - International

Building Officials and Code Administrators International  
Cast Iron Soil Pipe Institute  
Chain Link Fence Manufacturers Institute  
Compressed Air and Gas Institute  
Concrete Plant Manufacturers Bureau  
Concrete Sawing and Drilling Association  
Construction Industry Manufacturers Association  
Construction Specifications Institute  
Contractors Pump Bureau  
Council of American Building Officials  
Department of Defense  
Engineered Wood Association  
Environmental Industry Association  
Factory Mutual Research Corporation  
Federal Highway Administration (DOT)  
General Services Administration  
Gypsum Association  
Hardwood Plywood and Veneer Manufacturers Association  
Housing and Urban Development, Department of  
Institute of Makers of Explosives  
International Bridge, Tunnel and Turnpike Association  
International Conference of Building Officials  
Laborers International Union of North America  
Mechanical Contractors Association of America  
Metal Building Manufacturers Association  
National Association of County Engineers  
National Association of Industrial and Office Properties  
National Association of Pipe Coating Applicators  
National Association of Plumbing-Heating-Cooling Contractors  
National Association of Store Fixture Manufacturers  
National Building Granite Quarries Association  
National Clay Pipe Institute  
National Concrete Masonry Association  
National Conference of States on Building Codes and Standards  
National Corrugated Steel Pipe Association  
National Electrical Contractors Association  
National Lime Association  
National Sash and Door Jobbers Association  
National Stone Association  
National Terrazzo and Mosaic Association  
Occupational Safety and Health Administration (Labor)  
Pipe Line Contractors Association  
Plastics Pipe Institute  
Portland Cement Association  
Post-Tensioning Institute  
Powder Actuated Tool Manufacturers Institute  
Precast/Prestressed Concrete Institute  
Resilient Floor Covering Institute  
Scaffolding, Shoring and Forming Institute  
Sheet Metal and Air Conditioner Contractors National Association  
Single Ply Roofing Institute  
Southern Building Code Congress International  
Steel Tank Institute  
Water Pollution Control Federation

## CONSUMER PRODUCTS

American Furniture Manufacturers Association  
American Gas Association  
American Insurance Services Group  
American Ladder Institute  
American National Standards Institute  
American Society for Testing and Materials  
American Society of Electroplated Plastics  
American Textile Manufacturers Institute  
Art and Creative Materials Institute  
Association of Bedding and Furniture Law Officials  
Association of Home Appliance Manufacturers  
Automatic Meter Reading Association  
Building Technologies (DOE)  
Bureau of Competition and Consumer Protection (FTC)  
Carpet and Rug Institute  
Chemical Specialties Manufacturers Association  
Color Association of the United States  
Consumer Federation of America  
Consumer Product Safety Commission  
Cookware Manufacturers Association  
Cordage Institute  
Cosmetic, Toiletry and Fragrance Association  
Department of Defense  
Electronic Industries Association  
Food and Drug Administration (HHS)  
Gas Appliance Manufacturers Association  
Gas Processors Association  
Gemological Institute of America  
Hand Tools Institute  
Home Automation Association  
Inchcape Testing Services  
International Fabricare Institute  
International Sleep Products Association  
Jewelers Vigilance Committee  
Juvenile Products Manufacturers Association  
Manufacturing Jewelers and Silversmiths of America  
Metal Ladder Manufacturers Association  
Multi-Housing Laundry Association  
National Association of Hosiery Manufacturers  
National Association of Jewelry Appraisers  
National Institute of Infant Services  
National Retail Federation  
National Safety Council  
National Spa and Pool Institute  
Outdoor Power Equipment Institute  
Resilient Floor Covering Institute  
SGS - United States Testing Company  
Snell Memorial Foundation  
Tire and Rim Association  
Toy Manufacturers of America  
Underwriters Laboratories  
Vacuum Cleaner Manufacturers Association

## **DEFENSE**

Aerospace Industries Association of America  
American Defense Preparedness Association  
American Helicopter Society  
American National Metric Council  
American National Standards Institute  
American Society for Testing and Materials  
Defense Programs (DOE)  
Department of Defense  
Electronic Industries Association  
Helicopter Association International  
Institute of Makers of Explosives  
Institute of Nuclear Materials Management  
Society of Allied Weight Engineers  
Society of Automotive Engineers  
Society of Naval Architects and Marine Engineers  
Sporting Arms and Ammunitions Manufacturers Institute

## **EDUCATION**

Accrediting Bureau of Health Education Schools  
Advisory Commission on Textbook Specifications  
American Academy of Pediatrics  
American Association of Psychiatric Services for Children  
American Library Association  
American National Metric Council  
American Optometric Association  
American Psychiatric Association  
American Psychoanalytic Association  
American Public Health Association  
American Speech-Language and Hearing Association  
Association for Education of the Visually Handicapped  
Association of Bedding and Furniture Law Officials  
Association of Higher Education Facilities Officers  
Book Industry Study Group  
Book Manufacturers Institute  
FACTS Institute for Research, Standards and Terminology  
Hair International  
National Association of State Textbook Administrators  
National School Supply and Equipment Association  
National Standards Educators Association  
Special Libraries Association  
U.S. Metric Association



## ELECTRICAL AND ELECTRONIC EQUIPMENT

Aeronautical Radio, Incorporated  
Air Conditioning and Refrigeration Institute  
American Insurance Services Group  
American Lighting Association  
American Society for Testing and Materials  
American Society of Electroplated Plastics  
Association of Edison Illuminating Companies  
Association of Iron and Steel Engineers  
Battery Council International  
Certified Ballast Manufacturers  
Construction Industry Manufacturers Association  
Edison Electric Institute  
Electrical Apparatus Service Association  
Electrical Generating Systems Association  
Electronic Industries Association  
Electrostatic Discharge Association  
Factory Mutual Research Corporation  
Gas Appliance Manufacturers Association  
Home Automation Association  
Inchcape Testing Services  
Institute for Interconnecting and Packaging Electronic Circuits  
Institute of Electrical and Electronics Engineers  
Insulated Cable Engineers Association  
International Brotherhood of Electrical Workers  
International Electrical Testing Association  
International Municipal Signal Association  
ISA, The International Society for Measurement and Control  
Lightning Protection Association  
Magnetic Materials Producers Association  
National Association of Relay Manufacturers  
National Electrical Contractors Association  
National Electrical Manufacturers Association  
National Marine Electronic Association  
Occupational Safety and Health Administration (Labor)  
Radio Technical Commission for Aeronautics  
Radio Technical Commission for Maritime Services  
Recreation Vehicle Industry Association  
Rural Utilities Service (USDA)  
Security Industry Association  
Semiconductor Equipment and Materials Institute, International  
Small Motors Manufacturers Association  
Society of Allied Weight Engineers  
Society of Naval Architects and Marine Engineers  
Southwest Research Institute  
Underwriters Laboratories  
United Lightning Protection Association  
Variable Resistive Components Institute



## ENERGY

Air Conditioning and Refrigeration Institute  
American Gas Association  
American Insurance Services Group  
American Nuclear Society  
American Society for Testing and Materials  
American Society of Heating, Refrigerating and Air-Conditioning Engineers  
American Society of Mechanical Engineers  
Association of Edison Illuminating Companies  
Automatic Meter Reading Association  
Construction Industry Manufacturers Association  
Council of American Building Officials  
Department of Energy  
Edison Electric Institute  
Electrical Generating Systems Association  
Gas Appliance Manufacturers Association  
Gas Processors Association  
Health Physics Society  
Heat Exchange Institute  
Home Automation Association  
Home Ventilating Institute  
Institute of Electrical and Electronics Engineers  
Institute of Nuclear Materials Management  
Insulated Cable Engineers Association  
Mine Safety and Health Administration (Labor)  
Mineral Management Service (Interior)  
National Association of Pipe Coating Applicators  
National Conference of States on Building Codes and Standards  
National Fenestration Rating Council  
National Propane Gas Association  
Portland Cement Association  
Rural Utilities Service (USDA)  
Sheet Metal and Air Conditioner Contractors National Association  
Solar Rating and Certification Corporation

## ENVIRONMENT

Acoustical Society of America  
Aerospace Industries Association of America  
Air and Waste Management Association  
Air Conditioning and Refrigeration Institute  
American Association of State Highway and Transportation Officials  
American Bus Association  
American Conference of Governmental Industrial Hygienists  
American Forest and Paper Association  
American Industrial Hygiene Association  
American Insurance Services Group  
American Petroleum Institute  
American Society for Testing and Materials  
American Society of Agricultural Engineers  
American Society of Heating, Refrigerating and Air-Conditioning Engineers  
American Society of Mechanical Engineers

American Society of Safety Engineers  
American Textile Manufacturers Institute  
AOAC International  
Association of Engineering Geologists  
Battery Council International  
Construction Industry Manufacturers Association  
Environment, Safety and Health (DOE)  
Federal Aviation Administration (DOT)  
Federal Highway Administration (DOT)  
Glass Packaging Institute  
Home Automation Association  
Industrial Fabrics Association International  
Institute of Environmental Sciences  
Institute of Nuclear Materials Management  
International Fabricare Institute  
National Arborist Association  
National Association of County Engineers  
National Council on Radiation Protection and Measurements  
National Environmental Balancing Bureau  
National Pest Control Association  
NSF International  
Nuclear Regulatory Commission  
Occupational Health (NASA)  
Occupational Safety and Health Administration (Labor)  
Portland Cement Association  
Sheet Metal and Air Conditioner Contractors National Association  
Steel Tank Institute  
Water Pollution Control Federation  
Water Quality Association

#### **FACILITIES MANAGEMENT**

Air Conditioning Contractors of America  
American Hospital Association  
American Petroleum Institute  
American Society of Safety Engineers  
Association of Higher Education Facilities Officers  
Building Owners and Managers Association International  
Electrical Generating Systems Association  
Institute of Environmental Sciences  
Multi-Housing Laundry Association  
National Association of County Engineers  
National Association of Industrial and Office Properties

#### **FOOD AND BEVERAGES**

American Association of Cereal Chemists  
American Dairy Products Institute  
American Oil Chemists Society  
American Society for Enology and Viticulture  
American Society of Brewing Chemists  
American Spice Trade Association

AOAC International  
Bureau of Alcohol, Tobacco and Firearms (Treasury)  
Can Manufacturers Institute  
Cookware Manufacturers Association  
Corn Refiners Association  
Dairy and Food Industries Supply Association  
Department of Agriculture  
Department of Defense  
DFA of California  
Diamond Walnut Manufacturers Institute  
Distilled Spirits Council of the United States  
Food and Drug Administration (HHS)  
Food Processing Machinery and Supplies Association  
Glass Packaging Institute  
Health Care Financing Administration (HHS)  
National Association of Photographic Manufacturers  
National Automatic Merchandising Association  
National Coffee Association of the U.S.A.  
National Cottonseed Products Association  
National Fisheries Institute  
National Food Processors Association  
National Institute of Oilseed Products  
National Marine Fisheries Service (Commerce)  
National Oilseed Processors Association  
National Soft Drink Association  
SGS, United States Testing Company  
Sheet Metal and Air Conditioner Contractors National Association  
USA Rice Federation  
Veterans Affairs, Department of  
Water Quality Association

#### **GENERAL**

American Design Drafting Association  
American National Metric Council  
American National Standards Institute  
American Society for Testing and Materials  
American Society of Safety Engineers  
American Statistical Association  
Association of Records Managers and Administrators  
Bureau of Competition and Consumer Protection (FTC)  
Color Association of the United States  
Consumer Product Safety Commission  
Department of Defense  
Executive Office of the President  
General Services Administration  
International Trade Administration (Commerce)  
National Institute of Standards and Technology (Commerce)  
National Standards Educators Association  
SGS - United States Testing Company  
Standards Engineering Society  
U.S. Metric Association  
U.S. Product Data Association

U.S. Trade Representative, Executive Office of the President  
Underwriters Laboratory  
Uniform Code Council

#### **GOVERNMENT OFFICIALS**

American Association of Motor Vehicle Administrators  
American Association of State Highway and Transportation Officials  
American Conference of Governmental Industrial Hygienists  
AOAC International  
Association of American Plant Food Control Officials  
Association of Bedding and Furniture Law Officials  
Association of Official Seed Analysts  
Building Officials and Code Administrators International  
Council of American Building Officials  
International Association of Electrical Inspectors  
International Association of Plumbing and Mechanical Officials  
International Conference of Building Officials  
National Association of County Engineers  
National Association of State Textbook Administrators  
National Board of Boiler and Pressure Vessel Inspectors  
National Civic League  
National Conference of States on Building Codes and Standards  
National Insurance Crime Bureau

#### **HEATING, VENTILATING AND AIR HANDLING**

Air-Conditioning and Refrigeration Institute  
Air Conditioning Contractors of America  
Air Distribution Institute  
Air Movement and Control Association  
American Boiler Manufacturers Association  
American Conference of Governmental Industrial Hygienists  
American Insurance Services Group  
American Society of Heating, Refrigerating and Air-Conditioning Engineers  
Associated Air Balance Council  
Council of American Building Officials  
Gas Appliance Manufacturers Association  
Heat Exchange Institute  
Home Automation Association  
Home Ventilating Institute  
Hydronics Institute  
Institute of Environmental Sciences  
Mechanical Contractors Association of America  
National Association of Plumbing-Heating-Cooling Contractors  
National Certified Pipe Welding Bureau  
National Conference of States on Building Codes and Standards  
National Environmental Balancing Bureau  
Recreation Vehicle Industry Association  
Sheet Metal, and Air Conditioning Contractors National Association  
Solar Rating and Certification Corporation  
Underwriters Laboratories



## INDUSTRIAL EQUIPMENT

AIM USA

Air Conditioning and Refrigeration Institute

American Boiler Manufacturers Association

American Brush Manufacturers Association

American Gas Association

American Gear Manufacturers Association

American Insurance Services Group

American Ladder Institute

American Petroleum Institute

American Society for Testing and Materials

American Society of Mechanical Engineers

American Vacuum Society

AMT - The Association for Manufacturing Technology

Association of Iron and Steel Engineers

Cleaning Equipment Trade Association

Compressed Air and Gas Institute

Compressed Gas Association

Construction Industry Manufacturers Association

Contractors Pump Bureau

Conveyor Equipment Manufacturers Association

Cooling Tower Institute

Cordage Institute

Department of Defense

Ductile Iron Pipe Research Association

Electronic Industries Association

Environmental Industry Association

Expansion Joint Manufacturers Association

Factory Mutual Research Corporation

Fluid Controls Institute

Gas Appliance Manufacturers Association

Hand Tools Institute

Heat Exchange Institute

Hydraulic Institute

Hydronics Institute

Industrial Perforators Association

Industrial Safety Equipment Association

Industrial Truck Association

Institute of Caster Manufacturers

Institute of Clean Air Companies

International Staple, Nail and Tool Association

ISA, The International Society for Measurement and Control

Laser Institute of America

Manufacturers Standardization Society of the Valve and Fittings Industry

Masonry and Concrete Saw Manufacturers Institute

Material Handling Industry

Mechanical Power Transmission Association

Metal Ladder Manufacturers Association

Mine Safety and Health Administration (Labor)

Monorail Manufacturers Association

National Association of Chain Manufacturers

National Association of Graphic and Product Identification Manufacturers

National Association of Punch Manufacturers



National Board of Boiler and Pressure Vessel Inspectors  
National Fluid Power Association  
National Wood Pallet and Container Association  
Occupational Safety and Health Administration (Labor)  
Optical Product Code Council  
Pipe Fabrication Institute  
Portable Power Equipment Manufacturers Association  
Process Industry Practices Initiative  
Rack Manufacturers Institute  
Resistance Welder Manufacturers Association  
Robotic Industries Association  
Rubber Manufacturers Association  
Scaffolding, Shoring and Forming Institute  
Small Motor Manufacturing Association  
Steel Plate Fabricators Association  
Steel Tank Institute  
Sump and Sewage Pump Manufacturers Association  
Tubular Exchange Manufacturers Association  
Ultrasonic Industry Association  
Underwriters Laboratories  
Valve Manufacturers Association of America  
Water Quality Association

#### **INSTRUMENTS AND LABORATORY EQUIPMENT**

American Crystallographic Association  
American Society for Clinical Laboratory Science  
American Society for Testing and Materials  
American Society of Electroplated Plastics  
American Watchmakers and Clockmakers Institute  
Bureau of Alcohol, Tobacco and Firearms (Treasury)  
Equipment and Tool Institute  
Factory Mutual Research Corporation  
Federal Coordinator for Meteorology (Commerce)  
Fluid Controls Institute  
Institute of Electrical and Electronics Engineers  
Inter-Society Color Council  
International Centre for Diffraction Data  
ISA, The International Society for Measurement and Control  
Joint Neurosurgical Committee on Devices and Drugs  
Laser Institute of America  
National Association of Jewelry Appraisers  
National Institute of Standards and Technology (Commerce)  
National Oceanic and Atmospheric Administration (Commerce)  
Optical Society of America  
Scale Manufacturers Association

#### **MACHINERY**

American Bearing Manufacturers Association  
American Chain Association  
American Gear Manufacturers Association

American Insurance Services Group  
American Society for Testing and Materials  
American Society of Agricultural Engineers  
American Society of Mechanical Engineers  
American Textile Machinery Association  
AMT - The Association for Manufacturing Technology  
Automotive Lift Institute  
Baking Industry Sanitation Standards Committee  
Compressed Air and Gas Institute  
Construction Industry Manufacturers Association  
Conveyor Equipment Manufacturers Association  
Electrical Apparatus Service Association  
Factory Mutual Research Corporation  
Fluid Seal Association  
Food Processing Machinery and Supplies Association  
Forging Industry Association  
Friction Materials Standards Institute  
Grinding Wheel Institute  
Hack and Band Saw Manufacturers of America  
Mechanical Power Transmission Association  
Monorail Manufacturers Association  
National Electrical Manufacturers Association  
National Fluid Power Association  
Nebraska Power Laboratory  
Packaging Machinery Manufacturers Institute  
Resistance Welder Manufacturers Association  
Robotic Industries Association  
Semiconductor Equipment and Materials Institute  
Small Motors Manufacturers Association  
Society of Naval Architects and Marine Engineers  
Society of the Plastics Industry  
Wood Machinery Manufacturers of America

#### **MANUFACTURING**

Abrasive Grain Association  
Adhesives Manufacturers Association  
Aerospace Industries Association of America  
AIM USA  
American Brush Manufacturers Association  
American Chain Association  
American Insurance Services Group  
American Ladder Institute  
American Laminators Association  
American National Metric Council  
American National Standards Institute  
American Petroleum Institute  
American Society for Testing and Materials  
American Society of Electroplated Plastics  
American Society of Mechanical Engineers  
American Textile Manufacturers Institute  
American Welding Society  
AMT - The Association for Manufacturing Technology

Automated Imaging Association  
Cast Iron Soil Pipe Institute  
Cemented Carbide Producers Association  
Certified Automotive Parts Association  
Coated Abrasives Manufacturers Institute  
Compressed Air and Gas Institute  
Concrete Plant Manufacturers Bureau  
Consortium For Advanced Manufacturing International  
Construction Industry Manufacturers Association  
Defense Industrial Supply Center (Interdepartmental Screw Thread Committee)  
Diamond Wheel Manufacturers Institute  
Factory Mutual Research Corporation  
Fluid Controls Institute  
Food Processing Machinery and Supplies Association  
Grinding Wheel Institute  
Hack and Band Saw Manufacturers Association of America  
Industrial Diamond Association of America  
Industrial Fasteners Institute  
Industrial Perforators Association  
Industrial Safety Equipment Association  
Institute of Industrial Engineers  
Insulated Cable Engineers Association  
International Staple, Nail and Tool Association  
Laser Institute of America  
Marking Device Association  
Metal Treating Institute  
Monorail Manufacturers Association  
National Association of Chain Manufacturers  
National Association of Punch Manufacturers  
National Certified Pipe Welding Bureau  
National Fastener Distributors Association  
North American Die Casting Association  
Occupational Safety and Health Administration (Labor)  
Optical Product Code Council  
Primary Glass Manufacturers Council  
Process Industry Practices Initiative  
Resistance Welder Manufacturers Association  
Robotic Industries Association  
Semiconductor Equipment and Materials Institute  
Standards Committee for Hi-Lok, Hi-Tigue, and Hi-Lite Products  
Steel Plate Fabricators Association  
Truck Trailer Manufacturers Association  
Tube and Pipe Association, International  
Tubular Rivet and Machine Institute  
United States Council for Automotive Research  
United States Cutting Tool Institute

#### **MATERIALS AND FINISHES**

(Also see Concrete, Textiles And Wood)

Abrasive Grain Association  
Aluminum Association  
American Association of State Highway and Transportation Officials

American Chemical Society  
American Concrete Pavement Association  
American Electroplaters Society  
American Fiber Manufacturers Association  
American Foundrymen's Society  
American Galvanizers Association  
American Hardboard Association  
American Iron and Steel Institute  
American Laminators Association  
American Leather Chemists Association  
American National Standards Institute  
American Petroleum Institute  
American Society for Testing and Materials  
American Society of Electroplated Plastics  
American Society of Mechanical Engineers  
American Textile Manufacturers Institute  
American Wire Producers Association  
Asbestos Information Association North America  
Asphalt Emulsion Manufacturers Association  
Asphalt Institute  
Association of Nonwoven Fabrics Industry  
Association of Wall and Ceiling Industries - International  
Brass and Bronze Ingot Manufacturers  
Bureau of Alcohol, Tobacco and Firearms (Treasury)  
Cemented Carbide Producers Association  
Chemical Fabrics and Film Association  
Chemical Manufacturers Association  
Chemical Specialities Manufacturers Association  
Chlorine Institute  
Compressed Gas Association  
Concrete Plant Manufacturers Bureau  
Control Systems Manufacturers Division  
Copper Development Association  
Cosmetic, Toiletry and Fragrance Association  
Cotton Warehouse Association of America  
Department of Defense  
Entomological Society of America  
Environmental Protection Agency  
Expanded Shale, Clay and Slate Institute  
FACTS Institute for Research, Standards, and Terminology  
Federal Highway Administration (DOT)  
Felt Manufacturers Council of Northern Textile Association  
Flat Glass Marketing Association  
Forging Industry Association  
Friction Materials Standards Institute  
Glass Association of North America  
Gold Institute  
Gypsum Association  
Indiana Limestone Institute of America  
Industrial Diamond Association of America  
Industrial Fabrics Association International  
Institute of Makers of Explosives  
International Cadmium Association  
International Cast Polymer Association



Jewelers Vigilance Committee  
Lead Industries Association  
Magnetic Materials Producers Association  
Manufacturing Jewelers and Silversmiths of America  
Marble Institute of America  
Materials and Methods Standards Association  
Metal Powder Industries Federation  
Metal Treating Institute  
NACE International  
National Association of Store Fixture Manufacturers  
National Building Granite Quarries Association  
National Cotton Council  
National Lime Association  
National Lubricating Grease Institute  
National Stone Association  
North American Die Casting Association  
North American Insulation Manufacturers Association  
Perlite Institute  
Polyurethane Manufacturers Association  
Porcelain Enamel Institute  
Primary Glass Manufacturers Council  
Refractories Institute  
Rubber Manufacturers Association  
Salt Institute  
Semiconductor Equipment and Materials Institute  
SGS - United States Testing Company  
Silver Institute  
Society for Experimental Mechanics  
Society of Automotive Engineers  
Society of the Plastics Industry  
Southern Building Code Congress International  
Southwest Research Institute  
Steel Founders Society of America  
Steel Manufacturers Association  
Steel Service Center Institute  
Steel Structures Painting Council  
Technical Ceramics Manufacturers Association  
United States Council for Automotive Research  
United States Hide, Skin and Leather Association  
Wire Reinforcement Institute

#### **MEDICAL AND HEALTH CARE**

Accrediting Bureau of Health Education Schools  
American Academy of Pediatrics  
American Alliance for Health, Physical Education, Recreation and Dance  
American Association for Respiratory Care  
American Association of Poison Control Centers  
American Association of Psychiatric Services for Children  
American College of Surgeons  
American Dental Association  
American Electroencephalographic Society  
American Hospital Association



American Medical Association  
American National Standards Institute  
American Occupational Medical Association  
American Optometric Association  
American Pharmaceutical Association  
American Psychiatric Association  
American Psychoanalytic Association  
American Society for Artificial Internal Organs  
American Society for Clinical Laboratory Science  
American Society for Testing and Materials  
American Society of Anesthesiologists  
American Speech-language and Hearing Association  
American Thoracic Society  
Asbestos Information Association North America  
Association for the Advancement of Medical Instrumentation  
College of American Pathologists  
Compressed Gas Association  
Defense Programs (DOE)  
Entomological Society of America  
Environment, Safety and Health (DOE)  
Food and Drug Administration (HHS)  
Health Care Financing Administration (HHS)  
Health Industry Business Communications Council  
Health Industry Manufacturers Association  
Helicopter Association International  
Institute of Environmental Sciences  
Joint Neurosurgical Committee on Devices/Drugs  
Mine Safety and Health Administration (Labor)  
National Council for Prescription Drug Programs  
NCCLS - The Clinical Laboratory Standards Organization  
Occupational Health Office (NASA)  
Orthopedic Surgical Manufacturers Association  
Pharmaceutical Research and Manufacturers of America  
Prevent Blindness America  
U.S. Pharmacopeial Convention

#### **MEDICAL DEVICES, EQUIPMENT AND INSTRUMENTS**

American Association for Clinical Chemists  
American College of Surgeons  
American Dental Association  
American Electroencephalographic Society  
American Insurance Services Group  
American Medical Association  
American Optometric Association  
American Society for Artificial Internal Organs  
American Society for Testing and Materials  
American Society of Anesthesiologists  
American Society of Mechanical Engineers  
American Thoracic Society  
Association for the Advancement of Medical Instrumentation  
Biological Stain Commission  
Department of Defense

Food and Drug Administration (HHS)  
Health Industry Business Communications Council  
Health Industry Manufacturers Association  
Institute of Environmental Sciences  
Joint Neurosurgical Committee on Devices/Drugs  
Laser Institute of America  
National Electrical Manufacturers Association  
NCCLS - The Clinical Laboratory Standards Organization  
Orthopedic Surgical Manufacturers Association  
Pharmaceutical Research and Manufacturers of America  
Prevent Blindness America  
Radiological Society of North America  
U.S. Pharmacopeial Convention  
Veterans Affairs, Department of

#### **OFFICE PRODUCTS**

American Society for Testing and Materials  
Association for Information and Image Management, International  
Association of Records Managers and Administrators  
Business and Institutional Furniture Manufacturers Association  
Human Factors Society  
Joint Commission on Printing (Congress of the U.S.)  
Marking Device Association  
National Association of Graphic and Product Identification Manufacturers  
Postal Service  
Special Libraries Association

#### **OPTICS, OPHTHALMIC PRODUCTS AND EYE PROTECTION**

American Institute of Physics  
American Optometric Association  
American Society for Testing and Materials  
American Society of Safety Engineers  
Automated Imaging Association  
Industrial Safety Equipment Association  
Laser Institute of America  
National Association of Manufacturing Opticians  
Optical Laboratories Association  
Optical Society of America  
Prevent Blindness America

#### **PACKAGING AND PAPER**

Adhesives Manufacturers Association  
AIM USA  
American Forest and Paper Association  
American Society for Testing and Materials  
Can Manufacturers Institute  
Composite Can and Tube Institute  
Containerization and Intermodal Institute

Dairy and Food Industries Supply Association  
Department of Defense  
FACTS Institute for Research, Standards, and Terminology  
Fibre Box Association  
Flexible Packaging Association  
Food Processing Machinery and Supplies Association  
Glass Packaging Institute  
Gravure Association of America  
Joint Commission on Printing (Congress of the U.S.)  
National Archives and Records Service (GSA)  
National Food Processors Association  
National Information Standards Organization  
National Soft Drink Association  
National Wooden Pallet and Container Association  
Optical Product Code Council  
Packaging Machinery Manufacturers Institute  
Paperboard Packaging Council  
Postal Service  
Pressure Sensitive Tape Council  
Printing Industries of America  
Steel Shipping Container Institute  
Technical Association of the Pulp and Paper Institute  
Uniform Code Council

#### **PHOTOGRAPHY**

American National Standards Institute  
American Society for Photogrammetry and Remote Sensing  
Association for Information and Image Management, International  
National Archives and Records Service (GSA)  
National Association of Photographic Manufacturers  
Optical Society of America  
Photographic Society of America  
Society of Motion Picture and Television Engineers

#### **PLUMBING**

American Pipe Fittings Association  
American Society for Testing and Materials  
American Society of Electroplated Plastics  
American Society of Mechanical Engineers  
American Society of Plumbing Engineers  
Building Officials and Code Administrators International  
Cast Iron Soil Pipe Institute  
Council of American Building Officials  
Ductile Iron Pipe Research Association  
International Association of Plumbing and Mechanical Officials  
International Cast Polymer Association  
International Conference of Building Officials  
Manufacturers Standardization Society of the Valve and Fittings Industry  
Mechanical Contractors Association of America  
National Association of Plumbing-Heating-Cooling Contractors

National Certified Pipe Welding Bureau  
National Clay Pipe Institute  
National Conference of States on Building Codes and Standards  
National Spa and Pool Institute  
NSF International  
Plastics Pipe Institute  
Plumbing and Drainage Institute  
Recreation Vehicle Industry Association  
Society of Sanitary Engineering  
Southern Building Code Congress International  
Sump and Sewage Pump Manufacturers Association  
Valve Manufacturers Association of America  
Veterans Affairs, Department of  
Water Quality Association  
Water Systems Council

#### **PUBLIC HEALTH**

Accrediting Bureau of Health Education Schools  
American Academy of Pediatrics  
American Association of Blood Banks  
American Conference of Governmental Industrial Hygienists  
American Industrial Hygiene Association  
American Medical Association  
American Occupational Medical Association  
American Optometric Association  
American Public Health Association  
American Society for Testing and Materials  
American Thoracic Society  
American Water Works Association  
AOAC International  
Center for Disease Control (HHS)  
Entomological Society of America  
Environmental Industry Association  
Food and Drug Administration (HHS)  
Health Care Financing Administration (HHS)  
Health Physics Society  
Illuminating Engineering Society of North America  
National Association of Plumbing-Heating-Cooling Contractors  
National Automatic Merchandising Association  
National Institute of Infant Services  
National Pest Control Association  
NCCLS - The Clinical Laboratory Standards Organization  
NSF International  
Portable Sanitation Association  
Prevent Blindness America  
Snell Memorial Foundation  
Society of Sanitary Engineering  
Textile Rental Services Association of America  
U.S. Geological Survey (Interior)  
Water Quality Association



## QUALITY ASSURANCE AND TESTING

### ACIL

Aerospace Industries Association of America  
American Association for Clinical Chemistry  
American Association for Laboratory Accreditation  
American Association of Textile Chemists and Colorists  
American Chemical Society  
American Crystallographic Association  
American Dairy Products Institute  
American Hospital Association  
American Insurance Services Group  
American Leather Chemists Association  
American National Standards Institute  
American Oil Chemists Society  
American Society for Clinical Laboratory Science  
American Society for Non-Destructive Testing  
American Society for Quality Control  
American Society for Testing and Materials  
American Society of Brewing Chemists  
American Society of Mechanical Engineers  
American Statistical Association  
AOAC International  
Association of Official Seed Analysts  
Automated Imaging Association  
Biological Stain Commission  
Bureau of Alcohol, Tobacco and Firearms (Treasury)  
College of American Pathologists  
Construction Industry Manufacturers Association  
Cosmetic, Toiletry and Fragrance Association  
Factory Mutual Research Corporation  
Gemological Institute of America  
Inchcape Testing Services  
Institute of Electrical and Electronics Engineers  
Institute of Environmental Sciences  
Institute of Nuclear Materials Management  
Inter-Society Color Council  
International Electrical Testing Association  
Mine Safety and Health Administration (Labor)  
National Association of Photographic Manufacturers  
National Conference of States on Building Codes and Standards  
National Environmental Balancing Bureau  
National Fenestration Rating Council  
National Fire Protection Association  
National Institute of Standards and Technology (Commerce)  
National Oak Flooring Manufacturers Association  
National Pest Control Association  
NCCLS - The Clinical Laboratory Standards Organization  
Office of Acquisition (GSA)  
Portland Cement Association  
Radio Technical Commission for Aeronautics  
SGS - United States Testing Company  
Sheet Metal and Air Conditioner Contractors National Association  
Society for Experimental Mechanics



Society of Automotive Engineers  
Solar Rating and Certification Corporation  
Southwest Research Institute  
Toy Manufacturers of America  
Underwriters Laboratories  
United States Customs Service (Treasury)

#### **RECREATION AND SPORTS**

American Alliance for Health, Physical Education, Recreation and Dance  
American Automobile Association  
American Boat and Yacht Council  
American Bowling Congress  
American Society for Testing and Materials  
American Sport Fishing Association  
Billiard Congress of America  
Color Association of the United States  
National Association of Rocketry  
National Federation of State High School Associations  
National Golf Car Manufacturers Association  
National Model Railroad Association  
National Rifle Association of America  
National Ski Areas Association  
Prevent Blindness America  
Recreation Vehicle Industry Association  
SFI Foundation  
Snell Memorial Foundation  
Snowmobile Safety and Certification Committee  
Sporting Arms and Ammunition Manufacturers Institute  
Sports Car Club of America  
U.S. Tennis Court and Track Builders Association  
Underwriters Laboratories  
United States Coast Guard (DOT)  
United States Golf Association

#### **SAFETY, FIRE PROTECTION AND PUBLIC SAFETY**

Alliance of American Insurers  
American Association of Motor Vehicle Administrators  
American Automobile Association  
American Boat and Yacht Council  
American Brush Manufacturers Association  
American Bureau of Shipping  
American Bus Association  
American Conference of Governmental Industrial Hygienists  
American Fiber Manufacturers Association  
American Foundrymen's Society  
American Hospital Association  
American Hotel and Motel Association  
American Industrial Hygiene Association  
American Insurance Services Group  
American Ladder Institute

American National Standards Institute  
 American Nuclear Society  
 American Petroleum Institute  
 American Society for Testing and Materials  
 American Society of Agricultural Engineers  
 American Society of Civil Engineers  
 American Society of Mechanical Engineers  
 American Society of Safety Engineers  
 American Textile Machinery Association  
 American Textile Manufacturers Institute  
 American Welding Society  
 AOAC International  
 Art and Creative Materials Institute  
 Asbestos Information Association North America  
 Associated Locksmiths of America  
 Association for the Advancement of Medical Instrumentation  
 Association of American Railroads  
 Association of Home Appliance Manufacturers  
 Building Officials and Code Administrators International  
 Building Technologies (DOE)  
 Center for Disease Control (HHS)  
 Chemical Specialties Manufacturers Association  
 Chlorine Institute  
 Coated Abrasives Manufacturers Institute  
 Compressed Gas Association  
 Compressed Air and Gas Institute  
 Concrete Sawing and Drilling Association  
 Construction Industry Manufacturers Association  
 Consumer Product Safety Commission  
 Cordage Institute  
 Council of American Building Officials  
 Dairy and Food Industries Supply Association  
 Department of Transportation  
 Diamond Wheel Manufacturers Institute  
 Distilled Spirits Council of the United States  
 Environment, Safety and Health (DOE)  
 Factory Mutual Research Corporation  
 Federal Aviation Administration (DOT)  
 Federal Highway Administration (DOT)  
 Flight Safety Foundation  
 Food and Drug Administration (HHS)  
 Grinding Wheel Institute  
 Helicopter Association International  
 Human Factors Society  
 Industrial Fabrics Association International  
 Industrial Safety Equipment Association  
 Institute of Electrical and Electronics Engineers  
 Institute of Makers of Explosives  
 Institute of Nuclear Materials Management  
 Institute of Transportation Engineers  
 International Association of Electrical Inspectors  
 International Association of Plumbing and Mechanical Officials  
 International Conference of Building Officials  
 International Electrical Testing Association

International Fabricare Institute  
International Municipal Signal Association  
International Sleep Products Association  
International Society of Arboriculture  
Laborers International Union of North America  
Laser Institute of America  
Lightning Protection Institute  
Masonry and Concrete Saw Manufacturers Institute  
Mechanical Contractors Association of America  
Mine Safety and Health Administration (Labor)  
Minerals Management Service (Interior)  
National Arborist Association  
National Association of Plumbing-Heating-Cooling Contractors  
National Board of Boiler and Pressure Vessel Inspectors  
National Conference of States on Building Codes and Standards  
National Coordinating Council on Emergency Management  
National Cotton Council of America  
National Council on Radiation Protection and Measurements  
National Electrical Manufacturers Association  
National Elevator Industry  
National Federation of State High School Associations  
National Fire Protection Association  
National Fire Sprinkler Association  
National Institute of Standards and Technology (Commerce)  
National Insurance Crime Bureau  
National Propane Gas Association  
National Rifle Association of America  
National Safety Council  
National Ski Areas Association  
National Spa and Pool Institute  
NCCLS - The Clinical Laboratory Standards Organization  
Nuclear Regulatory Commission  
Occupational Safety and Health Administration (Labor)  
Painting and Decorating Contractors of America  
Portland Cement Association  
Powder Actuated Tool Manufacturers Institute  
Prevent Blindness America  
Printing and Decorating Contractors of America  
Public Buildings Service (GSA)  
Radio Technical Commission for Maritime Services  
Recreation Vehicle Industry Association  
Robotic Industries Association  
Scaffolding, Shoring and Forming Institute  
Security Industry Association  
Sheet Metal and Air Conditioner Contractors National Association  
Snell Memorial Foundation  
Snowmobile Safety and Certification Committee  
Society of Fire Protection Engineers  
Society of Naval Architects and Marine Engineers  
Southern Building Code Congress International  
Sporting Arms and Ammunition Manufacturers Institute  
Toy Manufacturers of America  
Underwriters Laboratories  
United Lightning Protection Association

Veterans Affairs, Department of  
Wood Machinery Manufacturers of America

### **SANITATION**

American Association of Cereal Chemists  
American Dairy Products Institute  
American Public Health Association  
American Society of Plumbing Engineers  
American Water Works Association  
AOAC International  
Baking Industry Sanitation Standards Committee  
Cast Iron Soil Pipe Institute  
Dairy and Food Industries Supply Association  
Environmental Industry Association  
Environmental Protection Agency  
Housing and Urban Development, Department of  
National Association of Photographic Manufacturers  
National Association of Plumbing-Heating-Cooling Contractors  
National Automatic Merchandising Association  
National Clay Pipe Institute  
National Pest Control Association  
National Spa and Pool Institute  
NSF International  
Plumbing and Drainage Institute  
Portable Sanitation Association  
Society of Sanitary Engineering  
Textile Rental Services Association of America  
Water Pollution Control Federation  
Water Quality Association

### **SOCIAL WELFARE**

American Association of Poison Control Centers  
American Association of Psychiatric Services for Children  
National Library Service for the Blind and Physically Handicapped (Library  
National Safety Council  
Prevent Blindness America  
Public Buildings Service (GSA)  
Snell Memorial Foundation  
Standards Engineering Society  
United States Council for International Business

### **TEXTILE AND CLOTHING**

American Association of Textile Chemists and Colorists  
American Fiber Manufacturers Association  
American Furniture Manufacturers Association  
American Society for Testing and Materials  
American Textile Machinery Association



American Textile Manufacturers Institute  
Association of Nonwoven Fabrics Industry  
Chemical Fabrics and Film Association  
Color Association of the United States  
Consumer Product Safety Commission  
Cordage Institute  
Department of Defense  
Elastic Fabric Manufacturers Council of Northern Textile Association  
Felt Manufacturers Council of Northern Textile Association  
Industrial Fabrics Association International  
Industrial Safety Equipment Association  
Institute of Environmental Sciences  
International Fabricare Institute  
Multi-Housing Laundry Association  
National Association of Hosiery Manufacturers  
National Cotton Council of America  
Secondary Materials and Recycled Textiles  
SGS - United States Testing Company  
Textile Rental Services Association of America

### **TRANSPORTATION**

Aeronautical Radio, Incorporated  
Aerospace Industries Association of America  
Air Transport Association of America  
Aircraft Owners and Pilots Association  
American Association of Motor Vehicle Administrators  
American Association of State Highway and Transportation Officials  
American Automobile Association  
American Automobile Manufacturers Association of the United States  
American Boat and Yacht Council  
American Bureau of Shipping  
American Bus Association  
American Forest and Paper Association  
American Helicopter Society  
American Institute of Aeronautics and Astronautics  
American Petroleum Institute  
American Railway Engineering Association  
American Road and Transportation Builders Association  
American Society for Testing and Materials  
American Society of Mechanical Engineers  
Asphalt Institute  
Association of American Railroads  
Automotive Industry Action Group  
Automotive Lift Institute  
Certified Automotive Parts Association  
Compressed Gas Association  
Containerization and Intermodal Institute  
Department of Transportation  
Federal Aviation Administration (DOT)  
Federal Highway Administration (DOT)  
Flight Safety Foundation  
General Aviation Manufacturers Association



Helicopter Association International  
Industrial Fabrics Association International  
Institute of Nuclear Materials Management  
Institute of Transportation Engineers  
International Bridge, Tunnel and Turnpike Association  
International Mobile Air Conditioning Association  
Maritime Administration (DOT)  
National Association of Chain Manufacturers  
National Association of County Engineers  
National Cargo Bureau  
National Institute of Standards and Technology (Commerce)  
National Insurance Crime Bureau  
National Tire Dealers and Retreaders Association  
National Wood Pallet and Container Association  
Occupational Safety and Health Administration (Labor)  
Railway Tie Association  
Recreation Vehicle Industry Association  
SFI Foundation  
Snell Memorial Foundation  
Society of Allied Weight Engineers  
Society of Automotive Engineers  
Society of Naval Architects and Marine Engineers  
Steel Shipping Container Institute  
Tire and Rim Association  
Truck Trailer Manufacturers Association  
Uniform Code Council  
United States Council for Automotive Research

#### **WOOD AND WOOD PRODUCTS**

Alliance for Telecommunications Industry Solutions  
American Forest and Paper Association  
American Hardboard Association  
American Institute of Timber Construction  
American Ladder Institute  
American Laminators Association  
American Lumber Standards Committee  
American Society for Testing and Materials  
American Wood-Preservers Association  
American Wood Preservers Bureau  
Architectural Woodwork Institute  
Cedar Shake and Shingle Bureau  
Engineered Wood Association  
FACTS Institute for Research, Standards, and Terminology  
Hardwood Plywood and Veneer Manufacturers Association  
Housing and Urban Development, Department of  
National Association of Store Fixture Manufacturers  
National Bark and Soil Producers Association  
National Dimension Manufacturers Association  
National Oak Flooring Manufacturers Association  
National Particleboard Association  
National Sash and Door Jobbers Association  
National Wood Pallet and Container Association

National Wood Window and Door Association  
Northeastern Lumber Manufacturers Association  
Railway Tie Association  
Redwood Inspection Service  
Southern Cypress Manufacturers Association  
Southern Forest Producers Association  
Southern Pine Inspection Bureau  
Technical Association of the Pulp and Paper Industry  
Truss Plate Institute  
West Coast Lumber Inspection Bureau  
Western Wood Products Association  
Wood Machinery Manufacturers of America  
Wood Moulding and Millwork Producers Association  
Woodwork Institute of California

## 5.2 ACRONYMS AND INITIALS

This list of acronyms and initials serves to identify organizations, however, there is no exclusivity: there are four NFPA's, three AIA's and other duplications.

AA	Aluminum Association
AAA	American Automobile Association
AAAA	American Association of Advertising Agencies
AABB	American Association of Blood Banks
AABC	Associated Air Balance Council
AACC	American Association for Clinical Chemistry
AACC	American Association of Cereal Chemists
AACP	Association of Asbestos Cement Pipe Producers
AAFCO	Association of American Feed Control Officials
AAHPERD	American Alliance for Health, Physical Education, Recreation and Dance
AAI	Alliance of American Insurers
AAMA	American Architectural Manufacturers Association
AAMA	American Automobile Manufacturers Association of the United States
AAMI	Association for the Advancement of Medical Instrumentation
AAMVA	American Association of Motor Vehicle Administrators
AAN	American Association of Nurserymen
AAP	American Academy of Pediatrics
AAP	Association of American Publishers
AAPCC	American Association of Poison Control Centers
AAPFCO	Association of American Plant Food Control Officials
AAPSC	American Association of Psychiatric Services for Children
AAR	Association of American Railroads
AARC	American Association for Respiratory Care
AASHTO	American Association of State Highway and Transportation Officials
AATCC	American Association of Textile Chemists and Colorists
ABA	American Bus Association
ABA	Blue Anchor
ABC	American Bowling Congress
ABFLO	Association of Bedding and Furniture Law Officials
ABHES	Accrediting Bureau of Health Education Schools
ABMA	American Bearing Manufacturers Association
ABMA	American Boiler Manufacturers Association
ABMA	American Brush Manufacturers Association
ABS	American Bureau of Shipping
ABYC	American Boat and Yacht Council
ACA	American Chain Association
ACA	American Crystallographic Association
ACCA	Air Conditioning Contractors of America
ACGIH	American Conference of Governmental Industrial Hygienists
ACI	American Concrete Institute
ACIL	American Council of Independent Laboratories
ACM	Association for Computing Machinery
ACMI	Art and Creative Materials Institute
ACPA	American Concrete Pavement Association
ACPA	American Concrete Pipe Association

ACPPA	American Concrete Pressure Pipe Association
ACS	American Chemical Society
ACS	American College of Surgeons
ACSM	American Congress on Surveying and Mapping
ACTS	Advisory Commission on Textbook Specifications
ADA	American Dental Association
ADDA	American Design Drafting Association
ADI	Air Distribution Institute
ADPA	American Defense Preparedness Association
ADPI	American Dairy Products Institute
AEG	Association of Engineering Geologists
AEIC	Association of Edison Illuminating Companies
AEMA	Asphalt Emulsion Manufacturers Association
AER	Association for Education and Rehabilitation of the Blind and Visually Impaired
AES	American Electroencephalographic Society
AESF	American Electroplaters and Surface Finishers Society
AFA	American Fence Association
AFMA	American Fiber Manufacturers Association
AFMA	American Furniture Manufacturers Association
AFPA	American Forest and Paper Association
AFS	American Foundrymen's Society
AGA	Abrasive Grain Association
AGA	American Galvanizers Association
AGA	American Gas Association
AGCA	Associated General Contractors of America
AGMA	American Gear Manufacturers Association
AHA	American Hardboard Association
AHA	American Hospital Association
AHAM	Association of Home Appliance Manufacturers
AHEFO	Association of Higher Education Facilities Officers
AH&MA	American Hotel and Motel Association
AHS	American Helicopter Society
AI	Asphalt Institute
AIA	Aerospace Industries Association of America
AIA	American Institute of Architects
AIA	Automated Imaging Association
AIAA	American Institute of Aeronautics and Astronautics
AIAG	American Insurance Service Group
AIAG	Automotive Industry Action Group
AIA/NA	Asbestos Information Association North America
AIHA	American Industrial Hygiene Association
AIIM	Association for Information and Image Management, International
AIM	AIM USA
AIP	American Institute of Physics
AISC	American Institute of Steel Construction
AISE	Association of Iron and Steel Engineers
AISG	American Insurance Services Group
AISI	American Iron and Steel Institute
AITC	American Institute of Timber Construction
ALA	American Laminators Association
ALA	American Library Association
ALA	American Lighting Association
ALA	Associated Locksmiths of America



ALCA	American Leather Chemists Association
ALI	American Ladder Institute
ALI	Automotive Lift Institute
ALSC	American Lumber Standards Committee
AMA	Adhesives Manufacturers Association
AMA	American Medical Association
AMCA	Air Movement and Control Association
AMRA	Automatic Meter Reading Association
AMS	Agriculture Marketing Service (USDA)
AMT	The Association for Manufacturing Technology
ANFI	Association of Nonwoven Fabrics Industry
ANMC	American National Metric Council
ANS	American Nuclear Society
ANSI	American National Standards Institute
AOA	American Optometric Association
AOAC	AOAC, International
AOCS	American Oil Chemists Society
AOMA	American Occupational Medical Association
AOPA	Aircraft Owners and Pilots Association
AOSA	Association of Official Seed Analysts
AOSCA	Association of Official Seed Certifying Agencies
APA	American Psychiatric Association
APA	American Psychoanalytical Association
APFA	American Pipe Fittings Association
APhA	American Pharmaceutical Association
APHA	American Public Health Association
API	American Petroleum Institute
ARA	Agriculture Retailers Association
AREA	American Railway Engineering Association
ARI	Air-Conditioning and Refrigeration Institute
ARINC	Aeronautical Radio, Incorporated
ARMA	Asphalt Roofing Manufacturers Association
ARMA	Association of Records Managers and Administrators
ARPI	Automotive Refrigeration Products Institute
ARTBA	American Road and Transportation Builders Association
ASA	Acoustical Society of America
ASA	American Society of Anesthesiologists
ASA	American Soybean Association
ASA	American Statistical Association
ASAE	American Society of Agricultural Engineers
ASAIIO	American Society for Artificial Internal Organs
ASBC	American Society of Brewing Chemists
ASBE	American Society of Bakery Engineers
ASC	Accredited Standards Committee X9-Financial Services
ASCE	American Society of Civil Engineers
ASCLS	American Society for Clinical Laboratory Science
ASEP	American Society of Electroplated Plastics
ASEV	American Society for Enology and Viticulture
ASFA	American Sport Fishing Association
ASHA	American Speech-Language and Hearing Association
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASNT	American Society for Non-Destructive Testing



ASPE	American Society of Plumbing Engineers
ASPPT	Association for Suppliers of Printing and Publishing Technologies
ASPRS	American Society for Photogrammetry and Remote Sensing
ASQC	American Society for Quality Control
ASSE	American Society of Safety Engineers
ASTA	American Spice Trade Association
ASTM	American Society for Testing and Materials
ATA	Air Transport Association of America
ATIS	Alliance for Telecommunications Industry Solutions
ATM	ATM Forum
ATMA	American Textile Machinery Association
ATMI	American Textiles Manufacturers Institute
ATS	American Thoracic Society
ATSC	Advanced Television Systems Committee
AVS	American Vacuum Society
AWCI	Association of Wall and Ceiling Industries, International
AWI	American Watchmakers-Clockmakers Institute
AWI	Architectural Woodwork Institute
AWMA	Air and Waste Management Association
AWMA	American Walnut Manufacturers Association
AWPA	American Wire Producers Association
AWPA	American Wood-Preservers Association
AWPB	American Wood Preservers Bureau
AWS	American Welding Society
AWWA	American Water Works Association
A2LA	American Association for Laboratory Accreditation
BATF	Bureau of Alcohol, Tobacco, and Firearms (Treasury)
BBIM	Brass and Bronze Ingot Manufacturers
BC	Bureau of Census (Commerce)
BCA	Billiard Congress of America
BCI	Battery Council International
BCR	Bellcore
BHMA	Builders Hardware Manufacturers Association
BIA	Binding Industries of America
BIA	Brick Institute of America
BIFMA	Business and Institutional Furniture Manufacturers Association
BISG	Book Industry Study Group
BISSC	Baking Industry Sanitation Standards Committee
BMI	Book Manufacturers Institute
BOCA	Building Officials and Code Administrators International
BOMA	Building Owners and Management Association International
BSC	Biological Stain Commission
BT	Building Technologies (DOE)
CABO	Council of American Building Officials
CAGI	Compressed Air and Gas Institute
CAMI	Coated Abrasives Manufacturers Institute
CAMI	Consortium for Advanced Manufacturing International
CAP	College of American Pathologists
CAPA	Certified Automotive Parts Association
CAUS	Color Association of the United States
CBM	Certified Ballast Manufacturers
CCPA	Cemented Carbide Producers Association

CCTI	Composite Can and Tube Institute
CDA	Copper Development Association
CDC	Center for Disease Control (HHS)
CEMA	Conveyor Equipment Manufacturers Association
CETA	Cleaning Equipment Trade Association
CFA	Consumer Federation of America
CFFA	Chemical Fabrics and Film Association
CGA	Compressed Gas Association
CI	Chlorine Institute
CI	Cordage Institute
CII	Containerization and Intermodal Institute
CIMA	Construction Industry Manufacturers Association
CISC	Ceiling and Interior Systems Construction Association
CISPI	Cast Iron Soil Pipe Institute
CLFMI	Chain Link Fence Manufacturers Institute
CMA	Chemical Manufacturers Association
CMA	Cookware Manufacturers Association
CMI	Can Manufacturers Institute
COS	Corporation for Open Systems International
CPB	Contractors Pump Bureau
CPMB	Concrete Plant Manufacturers Bureau
CPSC	Consumer Product Safety Commission
CRA	Corn Refiners Association
CRI	Carpet and Rug Institute
CRMA	Commercial Refrigerator Manufacturers Association
CRSI	Concrete Reinforcing Steel Institute
CS	Collection Services (LC)
CSDA	Concrete Sawing and Drilling Association
CSI	Construction Specifications Institute
CSMA	Chemical Specialties Manufacturers Association
CSSB	Cedar Shake and Shingle Bureau
CTFA	Cosmetic, Toiletry and Fragrance Association
CTI	Cooling Tower Institute
CWAA	Cotton Warehouse Association of America
DFAC	DFA of California
DFISA	Dairy and Food Industries Supply Association
DHI	Door and Hardware Institute
DIPRA	Ductile Iron Pipe Research Association
DISA	Data Interchange Standards Association
DISA	Defense Information Systems Agency (DOD)
DORCMA	Door Operator and Remote Controls Manufacturers Association
DP	Defense Program, Assistant Secretary (DOE)
DPMA	Data Processing Management Association
DSCUS	Distilled Spirits Council of the United States
DWG	Diamond Walnut Growers
DWMI	Diamond Wheel Manufacturers Institute
EASA	Electrical Apparatus Service Association
EDA	Electrostatic Discharge Association
EEI	Edison Electric Institute
EFMC	Elastic Fabric Manufacturers Council of Northern Textile Association
EGSA	Electrical Generating Systems Association
EIA	Electronic Industries Association
EIA	Energy Information Administration (DOE)

EIA	Environmental Industry Association
EJMA	Expansion Joint Manufacturers Association
EMI	Equipment Manufacturers Institute
EMRC	Electronic Media Rating Council
EPA	Environmental Protection Agency
ESA	Entomological Society of America
ESCSI	Expanded Shale, Clay and Slate Institute
ESH	Environment, Safety, and Health (DOE)
ETI	Equipment and Tool Institute
EWA	APA The Engineered Wood Association
FAA	Federal Aviation Administration (DOT)
FACTS	FACTS Institute for Research, Standards and Terminology
FAF	Financial Accounting Foundation
FAS	Foreign Agricultural Service (USDA)
FBA	Fibre Box Association
FCC	Federal Communications Commission
FCI	Fluid Controls Institute
FCM	Federal Coordinator for Metrology (Commerce)
FDA	Food and Drug Administration (HHS)
FGDC	Federal Geographic Data Committee (DI)
FHA	Federal Highway Administration (DOT)
FIA	Forging Industry Association
FMC	Felt Manufacturers Council of Northern Textile Association
FMRC	Factory Mutual Research Corporation
FMSI	Friction Materials Standards Institute
FPA	Flexible Packaging Association
FPMISA	Food Processing Machinery and Supplies Association
FS	Forest Service (USDA)
FSA	Fluid Sealing Association
FSF	Flight Safety Foundation
FSIS	Food Safety and Inspection Service (USDA)
FTC	Federal Trade Commission
GA	Gypsum Association
GAA	Gravure Association of America
GAMA	Gas Appliance Manufacturers Association
GAMA	General Aviation Manufacturers Association
GANA	Glass Association of North America
GCA	Graphic Communications Association
GI	Gold Institute
GIA	Gemological Institute of America
GIPSA	Grain Inspection, Packers and Stockyard Administration (USDA)
GPA	Gas Processors Association
GPI	Glass Packaging Institute
GWI	Grinding Wheel Institute
HAA	Home Automation Association
HAI	Helicopter Association International
HBSMAA	Hack and Band Saw Manufacturers Association of America
HCFA	Health Care Financing Administration (HHS)
HEI	Heat Exchange Institute
HFS	Human Factors Society
HI	Hair International
HI	Hydraulic Institute
HI	Hydronics Institute

HIBCC	Health Industry Business Communications Council
HIMA	Health Industry Manufacturers Association
HLS	Health Level Seven
HPS	Health Physics Society
HPVMA	Hardwood Plywood and Veneer Manufacturers Association
HTI	Hand Tools Institute
HUD	Housing and Urban Development, Department of
HVI	Home Ventilating Institute
IA	Irrigation Association
IAEI	International Association of Electrical Inspectors
IAPMO	International Association of Plumbing and Mechanical Officials
IBEW	International Brotherhood of Electrical Workers
IBTTA	International Bridge, Tunnel and Turnpike Association
ICA	International Cadmium Association
ICAC	Institute of Clean Air Companies
ICBO	International Conference of Building Officials
ICC	Inter-society Color Council
ICDD	International Centre for Diffraction Data
ICEA	Insulated Cable Engineers Association
ICIA	International Communications Industries Association
ICM	Institute of Caster Manufacturers
ICMA	International City Management Association
ICPA	International Cast Polymer Association
IDAA	Industrial Diamond Association of America
IDEA	International District Energy Association
IEEE	Institute of Electrical and Electronics Engineers
IES	Illuminating Engineering Society of North America
IES	Institute of Environmental Sciences
IETA	International Electrical Testing Association
IFAC	Industry Functional Advisory Committee on Standards Trade Policy Matters (Commerce)
IFAI	Industrial Fabrics Association International
IFI	Industrial Fasteners Institute
IFI	International Fabricare Institute
IIA	The Institute of Internal Auditors
IIAR	International Institute of Ammonia Refrigeration
IIE	Institute of Industrial Engineers
IIEEC	Institute for Interconnecting and Packaging Electronic Circuits
ILIA	Indiana Limestone Institute of America
IMACA	International Mobile Air Conditioning Association
IME	Institute of Makers of Explosives
IMI	International Masonry Institute
IMSA	International Municipal Signal Association
INMM	Institute of Nuclear Materials Management
IPA	Industrial Perforators Association
IRI	Industrial Risk Insurers
IRM	Information Resources Management (GSA)
IRM	Information Resource Management (USDA)
IRS	Internal Revenue Service (Treasury)
IS	Internet Society
ISA	International Society of Arboriculture
ISA	ISA, the International Society for Measurement and Control



ISDSI	Insulated Steel Door Systems Institute
ISEA	Industrial Safety Equipment Association
ISNTA	International Staple, Nail and Tool Association
ISPA	International Sleep Products Association
ISTA	International Safe Transit Association
ITA	Industrial Truck Association
ITA	International Trade Administration (Commerce)
ITA	ITA, The International Recording Media Association
ITE	Institute of Transportation Engineers
ITI	Information Technology Industry Council
ITS	Inchcape Testing Services/ETL Testing Laboratories
ITS	Information Technology Services (LC)
JCP	Joint Committee on Printing (Congress of the United States)
JNCDD	Joint Neurosurgical Committee on Devices and Drugs
JPMA	Juvenile Products Manufacturers Association
JVC	Jewelers Vigilance Committee
LBI	Library Binding Institute
LIA	Laser Institute of America
LIA	Lead Industries Association
LIUNA	Laborers International Union of North America
LPI	Lightning Protection Institute
MA	Maritime Administration (DOT)
MBMA	Metal Building Manufacturers Association
MCAA	Mechanical Contractors Association of America
MCSMI	Masonry and Concrete Saw Manufacturers Institute
MDA	Marking Device Association
MHI	Manufactured Housing Institute
MHI	Material Handling Industry
MIA	Marble Institute of America
MJSA	Manufacturing Jewelers and Silversmiths of America
MLA	Multi-housing Laundry Association
MLMA	Metal Ladder Manufacturers Association
MMA	Monorail Manufacturers Association
MMPA	Magnetic Materials Producers Association
MMS	Mineral Management Service (DI)
MMSA	Materials and Methods Standards Association
MPIF	Metal Powder Industries Federation
MPTA	Mechanical Power Transmission Association
MSHA	Mine Safety and Health Administration (DOL)
MSSVFI	Manufacturers Standardization Society of the Valve and Fittings Industry
MTI	Metal Treating Institute
NAA	National Arborist Association
NAAMM	National Association of Architectural Metal Manufacturer
NAB	National Association of Broadcasters
NACE	National Association of County Engineers
NACEI	NACE International
NACHA	National Automated Clearing House Association
NACM	National Association of Chain Manufacturers
NADCA	National Air Duct Cleaners Association
NADCA	North American Die Casting Association
NAGDM	National Association of Garage Door Manufacturers
NAGPIM	National Association of Graphic and Product Identification Manufacturers



NAHM	National Association of Hosiery Manufacturers
NAIMA	North American Insulation Manufactures Association
NAIOP	National Association of Industrial and Office Properties
NAJA	National Association of Jewelry Appraisers
NAMA	National Automatic Merchandising Association
NAMO	National Association of Manufacturing Opticians
NAPCA	National Association of Pipe Coating Applicators
NAPHCC	National Association of Plumbing-Heating-Cooling Contractors
NAPM	National Association of Photographic Manufacturers
NAPM	National Association of Punch Manufacturers
NAPM	National Association of Purchasing Management
NAR	National Association of Rocketry
NARA	National Archives and Records Administration (GSA)
NARM	National Association of Relay Manufacturers
NASFM	National Association of Store Fixture Manufacturers
NASTA	National Association of State Textbook Administrators
NBBPVI	National Board of Boiler and Pressure Vessel Inspectors
NBGQA	National Building Granite Quarries Association
NBSPA	National Bark and Soil Producers Association
NCA	National Coffee Association of the USA
NCB	National Cargo Bureau
NCCA	National Coil Coaters Association
NCCA	National Cotton Council of America
NCCEM	National Coordinating council on Emergency Management
NCCLS	NCCLS-The Clinical Laboratory Standards Organization
NCL	National Civic League
NCMA	National Concrete Masonry Association
NCPA	National Cottonseed Products Association
NCPDP	National council for Prescription Drug Program
NCPI	National Clay Pipe Institute
NCPMA	National Clay Pot Manufacturers Association
NCPWB	National Certified Pipe Welding Bureau
NCRPM	National Council on Radiation Protection and Measurements
NCSBCS	National Conference of States on Building Codes and Standards
NCSPA	National Corrugated Steel Pipe Association
NDMA	National Dimension Manufacturers Association
NEBB	National Environmental Balancing Bureau
NECA	National Electrical Contractors Association
NEI	National Elevator Industry
NEMA	National Electrical Manufacturers Association
NFAIS	National Federation of Abstracting and Information Services
NFDA	National Fastener Distributors Association
NFI	National Fisheries Institute
NFPA	National Fire Protection Association
NFPA	National Fluid Power Association
NFPA	National Food Processors Association
NFPA	National Forest Products Association
NFRC	National Fenestration Rating Council
NFSA	National Fire Sprinkler Association
NFSHSA	National Federation of State High School Associations
NGCMA	National Golf Car Manufacturers Association
NGWA	National Ground Water Association
NHLA	National Hardwood Lumber Association

NHTSA	National Highway Traffic Safety Administration (DOT)
NIBS	National Institute of Building Sciences
NICB	National Insurance Crime Bureau
NIIS	National Institute of Infant Services
NIJ	National Institute of Justice (DOJ)
NIOP	National Institute of Oilseed Products
NISO	National Information Standards Organization
NIST	National Institute of Standards and Technology (Commerce)
NKBA	National Kitchen and Bath Association
NLA	National Lime Association
NLGI	National Lubricating Grease Institute
NLMA	Northeastern Lumber Manufacturers Association
NLS	National Library Service for the Blind and Physically Handicapped (LC)
NMEA	National Marine Electronics Association
NMF	Network Management Forum
NMFS	National Marine Fisheries Service (Commerce)
NMRA	National Model Railroad Association
NOAA	National Oceanic and Atmospheric Administration (Commerce)
NOFMA	National Oak Flooring Manufacturers Association
NOPA	National Oilseed Processors Association
NPA	National Particleboard Association
NPCA	National Pest Control Association
NPGA	National Propane Gas Association
NPIRI	National Printing Ink Research Institute
NPL	Nebraska Power Laboratory
NRA	National Rifle Association of America
NRCA	National Roofing Contractors Association
NRDCA	National Roof Deck Contractors Association
NRF	National Retail Federation
NRR	Nuclear Regulatory Research (NRC)
NSA	National Stone Association
NSAA	National Ski Areas Association
NSC	National Safety Council
NSDA	National Soft Drink Association
NSDJA	National Sash and Door Jobbers Association
NSEA	National Standards Educators Association
NSF	NSF International
NSPI	National Spa and Pool Institute
NSSEA	National School Supply and Equipment Association
NTDRA	National Tire Dealers and Retreaders Association
NTIA	National Telecommunication and Information Administration (Commerce)
NTMA	National Terrazzo and Mosaic Association
NWPCA	National Wooden Pallet and Container Association
NWWDA	National Wood Window and Door Association
OA	Office of Acquisition (GSA)
OAMM	Office of Acquisition and Material Management (Veterans)
OASD	Office of the Assistant Secretary of Defense (DOD)
OCE	Office of Chief Engineer (NASA)
OLA	Optical Laboratories Association
OPCC	Optical Product Code Council
OPEI	Outdoor Power Equipment Institute
OSA	Optical Society of America

OSC	Office of Space Communications (NASA)
OSHA	Occupational Safety and Health Administration (DOL)
OSMA	Office of Safety and Mission Assurance (NASA)
OSMA	Orthopedic Surgical Manufacturers Association
PATMI	Powder Actuated Tool Manufacturers Institute
PBA	Prevent Blindness America
PBS	Public Building Service (GSA)
PCA	Portland Cement Association
PCMCIA	Personal Computer Memory Card International Association
PDCA	Painting and Decorating Contractors of America
PDI	Plumbing and Drainage Institute
PEI	Porcelain Enamel Institute
PFI	Pipe Fabrication Institute
PGMC	Primary Glass Manufacturers Council
PI	Perlite Institute
PIA	Printing Industries of America
PIPI	Process Industry Practices Initiative
PLCA	Pipe Line Contractors Association
PMA	Polyurethane Manufacturers Association
PMI	Project Management Institute
PMMI	Packaging Machinery Manufacturers Institute
PPC	Paperboard Packaging Council
PPCI	Precast/Prestressed Concrete Institute
PPEMA	Portable Power Equipment Manufacturers Association
PPI	Plastics Pipe Institute
PRMA	Pharmaceutical Research and Manufacturers of America
PS	Photoduplication Services (LC)
PSA	Photographic Society of America
PSA	Portable Sanitation Association
PSTC	Pressure Sensitive Tape Council
PSUS	Postal Services, U.S.
PTI	Post-Tensioning Institute
RFCI	Resilient Floor Covering Institute
RI	Refractories Institute
RIA	Robotic Industries Association
RIAA	Recording Industry Association of America
RIS	Redwood Inspection Service
RMA	Rubber Manufacturers Association
RMI	Rack Manufacturers Institute
RSNA	Radiological Society of North America
RSPA	Research and Special Programs Administration (DOT)
RTA	Railway Tie Association
RTCA	Radio Technical Commission for Aeronautics
RTCM	Radio Technical Commission for Maritime Services
RUS	Rural Utilities Service (USDA)
RVIA	Recreation Vehicle Industry Association
RWMA	Resistance Welder Manufacturers Association
SAAMI	Sporting Arms and Ammunition Manufacturers Institute
SAE	Society of Automotive Engineers
SAWE	Society of Allied Weight Engineers
SBCCI	Southern Building Code Congress International
SBMA	Steel Bar Mills Association
SCCA	Sports Car Club of America



SCHHHP	Standards Committee for Hi-Lok, Hi-Tigue and Hi-Lite Products
SCMA	Southern Cypress Manufacturers Association
SCTE	Society of Cable Telecommunications Engineers
SDI	Steel Deck Institute
SDI	Steel Door Institute
SEM	Society for Experimental Mechanics
SEMI	Semiconductor Equipment and Materials Institute, International
SES	Standards Engineering Society
SFI	SFI Foundation Incorporated
SFPA	Southern Forest Producers Association
SFPE	Society of Fire Protection Engineers
SFSA	Steel Founders Society of America
SGS	SGS United States Testing Company
SI	Salt Institute
SI	Silver Institute
SIA	Security Industry Association
SIA	Ski Industries America
SID	Society for Information Display
SIGMA	Sealed Insulating Glass Manufacturers Association
SJI	Steel Joist Institute
SLA	Special Libraries Association
SMA	Scale Manufacturers Association
SMA	Screen Manufacturers Association
SMA	Steel Manufacturers Association
SMA	Stucco Manufacturers Association
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SMF	Snell Memorial Foundation
SMMA	Small Motor Manufacturers Association
SMPTE	Society of Motion Picture and Television Engineers
SMRT	Secondary Materials and Recycled Textiles
SNAME	Society of Naval Architects and Marine Engineers
SOPI	Society of the Plastics Industry
SPFA	Steel Plate Fabricators Association
SPI	Society of the Plastics Industry
SPIB	Southern Pine Inspection Bureau
SPRI	Single Ply Roofing Institute
SPSC	Sleep Products Safety Council
SRCC	Solar Rating and Certification Corporation
SRI	Southwest Research Institute
SSCC	Snowmobile Safety and Certification Committee
SSCI	Steel Service Center Institute
SSCI	Steel Shipping Container Institute
SSE	Society of Sanitary Engineering
SSFI	Scaffolding, Shoring and Forming Institute
SSPC	Steel Structures Painting Council
SSPMA	Sump and Sewage Pump Manufacturers Association
STC	Society for Technical Communication
STI	Steel Tank Institute
SWI	Steel Window Institute
TAB	Traffic Audit Bureau
TAPPI	Technical Association of the Pulp and Paper Industry
TCA	Tile Council of America

TCMA	Technical Ceramics Manufacturers Association
TEMA	Tubular Exchanger Manufacturers Association
TIA	Telecommunications Industry Association
TMA	Toy Manufacturers of America
TMMB	Truck Mixer Manufacturers Bureau
TPAI	Tube and Pipe Association, International
TPI	Truss Plate Institute
TPI	Turfgrass Producers International
TRA	Tire and Rim Association
TRMI	Tubular Rivet and Machine Institute
TRSA	Textile Rental Services Association of America
TSP	Technical Standards Program Office (DOE)
TTMA	Truck Trailer Manufacturers Association
UCC	Uniform Code Council
UIA	Ultrasonic Industry Association
UL	Underwriters Laboratories
ULPA	United Lightning Protection Association
USARF	USA Rice Federation
USCAR	United States Council for Automotive Research
USCG	United States Coast Guard (DOT)
USCIB	United States Council for International Business
USCS	U.S. Custom Service (Treasury)
USCTI	United States Cutting Tool Institute
USGA	United States Golf Association
USGS	United States Geological Survey (DI)
USHSLA	United States Hide, Skin and Leather Association
USITACS	United States International Telecommunications Advisory Committee for Standardization (DOS)
USM	U.S. Mint (Treasury)
USMA	United States Metric Association
USP	United States Pharmacopeial Convention
USPRO	United States Product Data Association
USPT	U.S. Patent and Trademark Office (Commerce)
USTC&TBA	United States Tennis Court and Track Builders Association
USTR	U.S. Trade Representative
VCMA	Vacuum Cleaner Manufacturers Association
VITA	VMEBUS International Trade Association
VMAA	Valve Manufacturers Association of America
VRCI	Variable Resistive Components Institute
WASTEC	Waste Equipment Technology Association
WCLIB	West Coast Lumber Inspection Bureau
WIC	Woodwork Institute of California
WMMA	Wood Machinery Manufacturers of America
WMMP	Wood Moulding and Millwork Producers Association
WPCF	Water Pollution Control Federation
WQA	Water Quality Association
WRI	Wire Reinforcement Institute
WSC	Water Systems Council
WWPA	Western Wood Products Association





### 5.3 FORMER NAMES OF LISTED ORGANIZATIONS

American Bankers Association  
now: Accredited Standards Committee X9

American Council of Independent Laboratories  
now: ACIL

American Fishing Tackle Manufacturers Association  
now: American Sport Fishing Association

American Paper Institute  
now: American Forest and Paper Association

American Plywood Association  
now: Engineered Wood Association

American Society of Medical Technologists  
now: American Society for Clinical Laboratory Science

American Society of Sanitary Engineering  
now: Society of Sanitary Engineering

American Sod Producers Association  
now: Turfgrass Producers International

American Walnut Association  
now: American Walnut Manufacturers Association

Anti-Friction Bearing Manufacturers Association  
now: American Bearing Manufacturers Association

Association of Official Analytical Chemists  
now: AOAC International

Association of Physical Plant Administrators of Universities and Colleges  
now: Association of Higher Education Facilities Officers

Automatic Identification Manufacturers  
now: AIM USA

Cadmium Council  
now: International Cadmium Association

Caster and Floor Truck Manufacturers Association  
now: Institute of Caster Manufacturers

Center for Agriculture Equipment  
now: Nebraska Power Laboratory

Cleaning Equipment Manufacturers Association  
now: Cleaning Equipment Trade Association

Computer Aided Manufacturing, International  
now: Consortium for Advanced Manufacturing International

Computer and Business Equipment Manufacturers Association  
now: Information Technology Industry Council

Cultured Marble Institute  
now: International Cast Polymer Association

Equipment Manufacturers Institute  
now: Environmental Industry Association

ETL Testing Laboratories  
now: Inchcape Testing Services/ETL Testing Laboratories

Exchange Carriers Standards Association  
now: Alliance For Telecommunications Industry Solutions

Farm and Industrial Equipment Institute  
now: Equipment Manufacturers Institute

National Fertilizer Solutions  
now: Agricultural Retailers Association

Glass Tempering Association  
now: Glass Association of North America

Hardwood Plywood Manufacturers Association  
now: Hardwood Plywood and Veneer Manufacturers Association

Industrial Gas Cleaning Institute  
now: Institute of Clean Air Companies

Instrument Society of America  
now: ISA, The International Society for Measurement and Control

International Tape/Disc Association  
now: ITA, The International Recording Media Association

International Association of Wiping Cloth Manufacturers  
now: Secondary Materials and Recycled Textiles

International District Heating and Cooling Association  
now: International District Energy Association

International Fence Industry Association  
now: American Fence Association

International Pipe Association  
now: Tube and Pipe Association, International

Mineral Insulation Manufacturers Association  
now: North American Insulation Manufacturers Association

Motor Vehicle Manufacturers Association  
now: American Automobile Manufacturers Association of the United States

National Association of Corrosion Engineers  
now: NACE International

National Association of Name Plate Manufacturers  
now: National Association of Graphic and Product Identification Manufacturers

National Automobile Theft Bureau  
now: National Insurance Crime Bureau

National Committee for Clinical Laboratory Standards  
now: NCCL-The Clinical Laboratory Standards Organization

National Forest Products Association  
now: American forest and Paper Association

National Retail Merchants Association  
now: National Retail Federation

National Sanitation Foundation  
now: NSF International

National Solid Wastes Management Associations  
now: Environmental Industry Associations

National Water Well Association  
now: National Ground Water Association

NMBTA-The Association for Manufacturing Technology  
now: AMT-The Association for Manufacturing Technology

Rice Millers Association  
now: USA Rice Federation





#### 5.4 ORGANIZATIONS NO LONGER INVOLVED IN STANDARDIZATION

Organizations that had developed standards or were listed in the 1991 Directory and that are

- (a) no longer active in standardization;
- (b) defunct or merged with another organization;
- (c) cannot be located or would not respond.

Abrasive Engineering Society (a)  
Aircraft Locknut Manufacturers Association (c)  
American Association of Bioanalysts (a)  
American Association of Petroleum Geologists (c)  
American Feed Industry Association (a)  
American Heart Association (c)  
American Home Economics Association (c)  
American Institute of Chemical Engineers (a)  
American Paper Institute (b)  
American Paper Machinery Association (a)  
American Podiatric Medical Association (a)  
American Public Works Association (a)  
American Society of Cinematographers (a)  
Animal Health International (c)  
Archery Manufacturers and Merchants Organization (c)  
Architectural Precast Association (c)  
Association of Drilled Shaft Contractors (c)  
Cellulose Insulation Manufacturers Association (a)  
Computer Software and Services Industry Association (a)  
Decorative Laminate Products (c)  
Deep Foundation Institute (c)  
Dental Manufacturers of America (a)  
Eastern Bird Banding Association (c)  
Electronic Data Interchange Association (b)  
Federation of Automated Coding Technologies (c)  
Federation of Societies for Coatings Technologies (c)  
Fertilizer Institute (a)  
Fine Hardwood Veneer Association (a)  
Grain Elevator and Processing Society (c)  
Gummed Industries Association (b)  
Hardwood Manufacturers Association (c)  
International Cargo Gear Bureau (a)  
International City Management Association (c)  
International Coalition For Procurement Standards (b)  
Investment Casting Institute (c)  
Maple Floor Manufacturers Association (b)  
Mo-Sai Institute (a)  
MTM Association for Standards and Research (c)  
Mumps Development Committee (c)  
National Accreditation Council for Agencies Serving the Blind and Visually Handicapped (a)  
National Ass. of Hospital Purchasing Materials Management (b)  
National Association of State Purchasing Officials (c)  
National Burglar and Fire Alarm Association (c)  
National Cable Television Association (c)

National Computer Graphics Association (a)  
National Easter Seal Society (c)  
National Forest Products Association (b)  
National Kerosene Heater Association (c)  
National League for Nursing (c)  
National Office Products Association (a)  
National Operating Committee for Standards in Athletic Equipment (c)  
National Slag Association (c)  
National Solid Wastes Management Association (b)  
National Wholesale Hardware Association (b)  
Photo Chemical Machining Institute (c)  
Safety Glazing Certification Council (c)  
SPARC International (c)  
Sponge and Chamois Institute (c)  
Test Boring Association (c)  
Thermal Insulation Manufacturers Association (b)  
Tin Research Institute (c)  
Trailer Hitch Manufacturers Association (b)  
Tube Council of North America (a)  
United Shipowners of America (b)  
United States Telephone Association (c)  
Waste Equipment Manufacturers Association (b)  
Wood and Synthetic Flooring Institute (b)  
Wood Heating Alliance (a)





# **NIST** *Technical Publications*

## **Periodical**

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**Journal of Research of the National Institute of Standards and Technology**—Reports NIST research and development in those disciplines of the physical and engineering sciences in which the Institute is active. These include physics, chemistry, engineering, mathematics, and computer sciences. Papers cover a broad range of subjects, with major emphasis on measurement methodology and the basic technology underlying standardization. Also included from time to time are survey articles on topics closely related to the Institute's technical and scientific programs. Issued six times a year.

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**Special Publications**—Include proceedings of conferences sponsored by NIST, NIST annual reports, and other special publications appropriate to this grouping such as wall charts, pocket cards, and bibliographies.

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