NBS SPECIAL PUBLICATION 636

U.S. DEPARTMENT OF COMMERCE/National Bureau of Standards

NVLAP

Fifth Annual Report and Directory of Accredited Laboratories

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards[1] was established by an act of Congress on March 3, 1901. The Bureau's overall goal is to strengthen and advance the Nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the Nation's physical measurement system, (2) scientific and technological services for industry and government, (3) a technical basis for equity in trade, and (4) technical services to promote public safety. The Bureau's technical work is performed by the National Measurement Laboratory, the National Engineering Laboratory, and the Institute for Computer Sciences and Technology.

THE NATIONAL MEASUREMENT LABORATORY provides the national system of physical and chemical and materials measurement; coordinates the system with measurement systems of other nations and furnishes essential services leading to accurate and uniform physical and chemical measurement throughout the Nation's scientific community, industry, and commerce; conducts materials research leading to improved methods of measurement, standards, and data on the properties of materials needed by industry, commerce, educational institutions, and Government; provides advisory and research services to other Government agencies; develops, produces, and distributes Standard Reference Materials; and provides calibration services. The Laboratory consists of the following centers:

Absolute Physical Quantities[2] — Radiation Research — Chemical Physics — Analytical Chemistry — Materials Science

THE NATIONAL ENGINEERING LABORATORY provides technology and technical services to the public and private sectors to address national needs and to solve national problems; conducts research in engineering and applied science in support of these efforts; builds and maintains competence in the necessary disciplines required to carry out this research and technical service; develops engineering data and measurement capabilities; provides engineering measurement traceability services; develops test methods and proposes engineering standards and code changes; develops and proposes new engineering practices; and develops and improves mechanisms to transfer results of its research to the ultimate user. The Laboratory consists of the following centers:

Applied Mathematics — Electronics and Electrical Engineering[2] — Manufacturing Engineering — Building Technology — Fire Research — Chemical Engineering[2]

THE INSTITUTE FOR COMPUTER SCIENCES AND TECHNOLOGY conducts research and provides scientific and technical services to aid Federal agencies in the selection, acquisition, application, and use of computer technology to improve effectiveness and economy in Government operations in accordance with Public Law 89-306 (40 U.S.C. 759), relevant Executive Orders, and other directives; carries out this mission by managing the Federal Information Processing Standards Program, developing Federal ADP standards guidelines, and managing Federal participation in ADP voluntary standardization activities; provides scientific and technological advisory services and assistance to Federal agencies; and provides the technical foundation for computer-related policies of the Federal Government. The Institute consists of the following centers:

Programming Science and Technology — Computer Systems Engineering.

[1]Headquarters and Laboratories at Gaithersburg, MD, unless otherwise noted; mailing address Washington, DC 20234.
[2]Some divisions within the center are located at Boulder, CO 80303.

NVLAP

Fifth Annual Report and Directory of Accredited Laboratories

NBS special publication

Peter S. Unger

Office of Product Standards Policy
National Bureau of Standards
Washington, DC 20234

U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, Secretary
NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director
Issued September 1982

National Bureau of Standards Special Publication 636
Natl. Bur. Stand. (U.S.), Spec. Publ. 636, 57 pages (Sept. 1982)
CODEN: XNBSAV

U.S. GOVERNMENT PRINTING OFFICE
WASHINGTON: 1982

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402
Price $4.75
(Add 25 percent for other than U.S. mailing)

PREFACE

This fifth annual report summarizes the activity of the National Voluntary Laboratory Accreditation Program (NVLAP) of the U.S. Department of Commerce (DOC) for calendar year 1981 and provides information about laboratories accredited under the program.

NVLAP is intended to examine the professional and technical competence of public and private testing laboratories at their request. DOC will grant or deny accreditation to testing laboratories based on an assessment of their competence to perform certain test methods. Actions undertaken in this program are specified by formal published procedures.

NVLAP benefits both laboratories and their users. Laboratory users have assurance that laboratories have the personnel, equipment, procedures, and competence to provide reliable test data. Laboratories are encouraged to raise their level of performance and receive recognition of their competence. NVLAP accreditation may reduce the number of audits required by other accrediting bodies. NVLAP can be used as an integral part of product certification programs.

Secretary of Commerce

NVLAP
FIFTH ANNUAL REPORT
AND
DIRECTORY OF ACCREDITED LABORATORIES

TABLE OF CONTENTS

Part I
Report of Program Activities

1. EXECUTIVE SUMMARY

The National Voluntary Laboratory Accreditation Program (NVLAP) undertook significant new activities during 1981, while maintaining last year's number of accreditation actions. At the end of 1981, 94 laboratories were accredited, including 39 laboratories under the laboratory accreditation program (LAP) for thermal insulation materials (the "Insulation LAP"), 42 laboratories under the LAP for freshly mixed field concrete (the "Concrete LAP"), and 23 laboratories under the LAP for carpet (the "Carpet LAP"). (Note that some laboratories are accredited under more than one LAP.)

Five new LAPs are under development or are being considered for development to accredit:

(1) Processors of personnel radiation dosimeters to serve the needs of the U.S. Nuclear Regulatory Commission;
(2) Laboratories that test solid fuel room heaters;
(3) Laboratories that test windows and doors (Note that (2) and (3) serve Federally insured housing programs of the U.S. Department of Housing and Urban Development);
(4) Laboratories that provide acoustical testing services (LAP requested by an acoustical materials manufacturer); and
(5) Laboratories that provide electromagnetic calibration services (LAP requested by a small electronics manufacturer).

A total of $741,000 was allocated for NVLAP activities for fiscal year 1981, down $68,000 from fiscal year 1980. During the past year, staffing level was equivalent to 13 full-time persons.

Discussions began with the National Association of Testing Authorities (Australia's national laboratory accreditation system) on a possible bilateral agreement for reciprocal recognition of each other's accredited laboratories. Bilateral agreements with other countries' accreditation systems are under consideration by DOC as a result of the activities of the International Laboratory Accreditation Conference. Bilateral agreements such as these are expected to play an important role in fostering international trade.

A workshop held in November provided a public forum for the expression of views on what the appropriate roles of the government and the private sector should be with respect to laboratory accreditation in the United States. An analysis of the issues raised during and pursuant to the workshop is available as NBS Special Publication 632, issued in March 1982.

The NVLAP Procedures (15 CFR Parts 7a, 7b, and 7c) were significantly amended in July 1981. The amendment streamlines NVLAP by adding the accreditation criteria to the NVLAP procedures, eliminating separate criteria committees for each LAP in favor of one advisory committee, and providing for workshops to address technical issues for administering newly established LAPs.

The Appendices to Part I of this report summarize the current NVLAP accreditation process, describe the steps involved in requesting a LAP, and list the major publications prepared by the NVLAP staff during 1981. Part II of this report is a directory of all laboratories accredited under NVLAP. The accredited laboratories are listed alphabetically, and are cross referenced by test method for each LAP and by State.

2. ESTABLISHED LABORATORY ACCREDITATION PROGRAMS

Accreditation Actions.

NVLAP maintained last year's number of accreditation actions during 1981. Nine laboratories were newly accredited and 85 laboratories renewed their accreditation. An alphabetical listing of all accredited laboratories and the test methods for which each is accredited is provided in Part II, Section 1 of this report. Four laboratories voluntarily terminated their accreditation. At the end of the year, evaluations for renewal of accreditation for four laboratories, and evaluations for initial accreditation of thirteen new applicants were in progress.

Insulation LAP.

The LAP for thermal insulation materials has 57 test methods for which accreditation may be sought. As of December 31, 1981, 39 laboratories were accredited to perform one or more of these test methods. Seven regularly scheduled on-site visits and six monitoring visits to the laboratories were conducted during the year. The third through fifth rounds of proficiency testing for insulation test methods involving thermal conductivity, settled density, and

flammability properties were completed. The sixth round is under way. Proficiency testing results are published in "NVLAP Tech Briefs" (see Appendix 1 for publication dates).

Concrete LAP.

Accreditation may be sought for up to seven test methods involving freshly mixed field concrete. The methods are arranged into two groups which address (1) field testing and (2) laboratory and field testing. In addition, a single optional test method may be requested with either of the two groups. As of the end of 1981, 42 laboratories were accredited under the Concrete LAP. Twenty-nine regularly scheduled on-site visits and six monitoring visits to the laboratories were conducted during the year. Laboratories continued to submit data as part of the within-lab and between-lab proficiency testing programs.

Carpet LAP.

The LAP for carpet has 12 test methods for which accreditation may be sought. As of December 31, 1981, 23 laboratories were accredited for one or more of these test methods. HUD is using test results produced by these laboratories as part of its carpet certification program. One regularly scheduled on-site visit and six monitoring visits to the laboratories were conducted during the year. The first through third rounds of proficiency testing for carpet test methods involving colorfastness, pile weight, pile thickness, strength, and flammability properties were completed. The fourth round is under way.

3. LAPS UNDER DEVELOPMENT OR BEING CONSIDERED

Personnel Radiation Dosimetry Processors

The U.S. Nuclear Regulatory Commission (NRC) and DOC signed an interagency agreement on July 17, 1981, to develop a LAP for processors of personnel dosimeters that measure ionizing radiation received by occupationally exposed personnel. This LAP will examine the competence of personnel dosimetry processors (i.e., laboratories) by evaluating the results of their participation in proficiency testing against a Health Physics Society standard and will evaluate, through on-site assessments, elements of quality assurance expected of competent processors of personnel dosimeters. NVLAP accreditation will be accepted by NRC as a demonstration of this competency. The technical details for administering this LAP are being developed. A notice announcing the formal establishment of this LAP is expected during 1982.

Solid Fuel Room Heaters

DOC is proceeding with a U.S. Department of Housing and Urban Development (HUD) request for a LAP to accredit laboratories that test solid fuel room heaters (46 FR 17073-17074). A public workshop to develop the technical details for administering this LAP was held October 13-14, 1981. The workshop resolved the technical details except for the proficiency testing requirements which are being studied further. A notice announcing the formal establishment of this LAP was published during the spring of 1982.

Acoustical Testing Services

On October 19, 1981, DOC published a final finding of need to accredit laboratories that provide acoustical testing services (46 FR 51267-51271). Public workshops to develop the technical details for administering this LAP were held on February 23-24 and March 10-11, 1982.

Electromagnetic Calibration Services

A final finding of need to accredit laboratories that provide electromagnetic calibration services covering power and attenuation measurements was published on January 14, 1982 (47 FR 2146-2148).

Windows and Doors

On December 16, 1981, HUD requested a LAP to accredit laboratories that test windows and doors. The request, submitted in accordance with NVLAP Part 7b Procedures (15 CFR Part 7b), was published in the *Federal Register* for public comment (47 FR 3025-3026).

4. ADMINISTRATION AND OTHER ACTIVITIES

NVLAP operates under the legal authority vested in the Secretary of Commerce by 15 U.S.C. 272 and Reorganization Plan No. 3 of 1946, Part VI. Rules and regulations governing NVLAP (NVLAP Procedures) are found under Title 15, Parts 7a, 7b, and 7c of the Code of Federal Regulations. The Secretary has delegated the operational responsibility for NVLAP to the Director of the National Bureau of Standards.

Resources.

For fiscal year 1981, beginning October 1, 1980, $741,000 was allocated for NVLAP activities. For fiscal year 1982, beginning October 1, 1981, $740,000 was allocated. During the past year staffing level was equivalent to 13 full-time persons. A total of $112,000 in fees was recovered in fiscal year 1981 from laboratories seeking accreditation to offset the costs associated with their evaluation and accreditation. As more laboratories participate, a larger portion of the program will be funded from fees rather than from appropriated funds.

International Interest in Laboratory Accreditation.

Laboratory accreditation systems are in operation or are being developed in other countries. As a result,

an effort is being made to involve government participation in international discussions of laboratory accreditation systems to facilitate international trade opportunities. The International Laboratory Accreditation Conference (ILAC) is an informal assemblage of approximately 42 nations and 12 international organizations whose overall purpose and objective is to promote the development of national systems for accrediting laboratories, the employment of harmonized accreditation criteria, and the development of bilateral or multilateral agreements which would encourage importers to accept the results of tests and data made by laboratories which have been accredited under a recognized laboratory accreditation system in exporting nations. ILAC has held five annual meetings in an attempt to develop mechanisms to provide mutual recognition of testing capabilities among countries. The fifth ILAC conference was held in Mexico City during the last week of October 1981. Numerous committee meetings also have been held. A worldwide directory of laboratory accreditation systems has been developed by ILAC. Guidelines for system operation, equipment calibrations, and proficiency testing are being developed. Legal impediments to the recognition of foreign laboratories have been identified. Future ILAC efforts will focus on bilateral agreements to accept test data from accredited laboratories between countries. These activities are particularly relevant to the General Agreement on Tariffs and Trade (GATT) to which the United States is a signatory. One of GATT's objectives is to minimize technical barriers to trade, such as requirements for testing in importing countries.

NVLAP staff has held periodic discussions about acceptance of test data from accredited laboratories with representatives of foreign national laboratory accreditation systems and by the end of the year was considering a bilateral agreement with the National Association of Testing Authorities (Australia's national laboratory accreditation system). Bilateral agreements can play an important role in fostering international acceptance of U.S. test data.

Workshop on Future Directions of Laboratory Accreditation

A two-day public workshop concerning present status and future direction of laboratory accreditation activities in the United States was held November 16-17, 1981, at the National Bureau of Standards in Gaithersburg, Maryland. The workshop provided a public forum for the expression of views on what the appropriate roles of the government and private sector should be with respect to laboratory accreditation in the United States. The workshop program was developed around the following key issues:

1) Whether the DOC should cease its present role and substitute in its place a program to accredit organizations which, in turn, would accredit private sector testing laboratories.
2) What, if any, additional measures should be taken to assure that an effective U.S. presence remains in international laboratory accreditation activities, including bilateral arrangements.
3) What action, if any, can be taken by the private sector and/or the government to reduce the proliferation of inspections and paperwork arising from duplicative accreditation activities within the United States.

The workshop was scheduled in response to requests from the American Association for Laboratory Accreditation and the American Council of Independent Laboratories to amend the NVLAP Procedures by transforming NVLAP from a system that directly accredits laboratories to a system that would accredit organizations which, in turn, would accredit laboratories. An analysis of the issues raised during and pursuant to the workshop is available as NBS Special Publication 632, issued in March 1982.

New Amendment, July 1981.

An amendment to the NVLAP Procedures which streamlines the program was published on July 17, 1981 (46 FR 37029-37040). This amendment revises the Procedures by:

1) Adding the current NVLAP accreditation criteria to the NVLAP Procedures in the *Code of Federal Regulations* (15 CFR Parts 7a, 7b, and 7c);
2) Eliminating separate criteria committees for each LAP in favor of one advisory committee to advise the Department on program and policy issues concerning NVLAP and laboratory accreditation; and
3) Providing informal public workshops to develop technical issues for administering newly established LAPs.

Appendix 1 summarizes the current accreditation process and Appendix 2 describes the steps now involved in requesting a LAP under these amended NVLAP Procedures.

Appendix 1:

Current Accreditation Process

Requesting NVLAP Accreditation. NVLAP accreditation is offered only for those test methods identified under the established LAPs. A request for a NVLAP application for accreditation should be addressed to the Manager, Laboratory Accreditation, National Bureau of Standards, TECH B06, Washington, DC 20234; telephone: (301) 921-2368.

Application Package. The application package includes an application form with a test method selection list and fee schedule, and a guide to the requirements for accreditation.

Fees. All fees must be paid before any initial decision of accreditation is made. Failure to pay renewal fees on a timely basis will lead to automatic expiration of accreditation at the end of the laboratory's current accreditation period.

Enrollment. After payment of the required fees, the laboratory is scheduled for an on-site laboratory visit and is notified of any additional written information which must be supplied, and of any applicable proficiency testing requirements which must be completed, for the evaluation.

Basic Conditions for Accreditation. In order for a laboratory to be accredited under the NVLAP procedures, it shall agree in writing to the following basic conditions:

(1) Be examined and audited, initially and on a continuing basis;
(2) Pay accreditation fees and charges;
(3) Avoid reference by itself and forbid others utilizing its services from referencing its NVLAP accredited status in consumer media and in product advertising or on product labels, containers and packaging or the contents therein, or in any other way which might convey the concept of product certification by DOC (Note: A NVLAP accredited laboratory may advertise its accredited status on its letterhead, brochures, and test reports as well as in trade publications and other laboratory services advertising media.);
(4) Maintain compliance with applicable general and specific criteria and with applicable requirements of the NVLAP Procedures (15 CFR Parts 7a, 7b, and 7c);
(5) Participate in proficiency testing that may be required for attaining or maintaining accreditation.

Criteria. The NVLAP criteria for evaluating laboratories, which are described in sections 7a.19—7a.30 of the NVLAP Procedures (15 CFR Part 7a), address a laboratory's organizational structure, technical management, professional and ethical business practices, and system for assuring the quality of test results. The criteria also address aspects of a laboratory directly related to the reliable performance of each test method for which the laboratory desires accreditation, including staff competence and training, facilities and equipment, test plans, calibration procedures, record keeping, data handling procedures, and quality control checks and audits.

On-site Visits. Regularly scheduled on-site visits are conducted to assess a laboratory's compliance with the NVLAP criteria. In addition, monitoring visits of limited scope are used to assure that accredited laboratories continue to comply with the criteria or to resolve any testing problems that an accredited laboratory may appear to have. The on-site assessor will conduct an exit interview with the laboratory's management at the conclusion of an on-site visit to summarize his or her findings. A written report is prepared by the NVLAP assessor after each on-site visit. Each laboratory is notified when deficiencies are identified and is given an opportunity to correct them before formal accreditation recommendations are prepared or any action to revoke accreditation is commenced. The laboratory shall permit the on-site assessor to review and examine any records or other documents required by the criteria. Also, if a hearing under 5 U.S.C. 556 has been instituted under the NVLAP Procedures, the laboratory shall permit DOC personnel to review and copy any records or other documents required by the criteria. Failure of the laboratory to cooperate with the on-site assessor will be grounds for adverse accreditation action.

Proficiency Testing. Proficiency testing is an integral part of the NVLAP accreditation process. Of utmost importance to the user of laboratory services is information as to whether or not a laboratory consistently obtains reliable results. While the existence of facilities, equipment, and personnel which meet the criteria establish a laboratory's overall capability to obtain good results, for certain test methods an analysis of actual test results is also necessary to determine if the overall capability does in fact produce the desired results. A laboratory's failure to participate fully in the conduct of required proficiency testing may also be grounds for adverse accreditation action.

Evaluation and Recommendations. A team of evaluators composed primarily of peers in the applicable testing areas uses the following inputs to review each laboratory:

(1) Written information supplied by the laboratory;
(2) Results of proficiency testing; and
(3) Written reports of on-site visits to the laboratory.

If deficiencies are identified, the laboratory is given written notification of them, and a reasonable period (ordinarily 30 days) in which to correct or resolve

them. After further review of the above inputs and the laboratory's response to any notification of deficiencies, the team will make an accreditation recommendation for the laboratory.

Accreditation Decision. Based on these recommendations, a decision is made whether to grant or deny initial accreditation for new laboratories or renewal for previously accredited laboratories. When decided, the laboratory is notified by letter of its accreditation status. If accreditation denial is proposed, the notification states the reason.

Appeals. A laboratory for which denial of accreditation is proposed has 30 days from the date of receipt of the notification to request a hearing. The notification will identify to whom a request for a hearing should be sent. If a hearing is not requested, the denial becomes final. If a hearing is requested, it is held pursuant to 5 U.S.C. 556.

Accreditation Period. Laboratories are granted accreditation for one year with individual laboratory anniversary dates occurring on the first of January, April, July, or October. A laboratory will be assigned only one anniversary date which will be closest to the time that its evaluation is completed and which assures that the accreditation period is a minimum of one year.

Accreditation Renewal. Each accredited laboratory is sent a renewal application form before its current accreditation expires (anniversary date). The lead time will be sufficient to complete the evaluation for renewal for the following year. The laboratory may use the renewal application form to add or drop test methods from its current accreditation.

Termination. Any accredited laboratory may voluntarily terminate its accreditation at any time. This option may be used by a laboratory for any reason.

Revocation. If the Secretary of Commerce (or designee) finds that an accredited laboratory has violated the terms of its accreditation, the laboratory may be notified of the proposed revocation of its accreditation, after a thorough consultation. As in the case of a denial, the laboratory has 30 days in which to appeal a proposed revocation by requesting a hearing. A proposed revocation will identify to whom a request for a hearing should be sent. If the hearing is not requested, the revocation becomes final. If a hearing is requested, it is held pursuant to 5 U.S.C. 556.

Public Notification. Accreditation actions are published in the *Federal Register* within 30 days of such action and in NVLAP quarterly and annual reports.

Compliance with Existing Laws. NVLAP accreditation does not relieve the laboratories from the necessity of observing and complying with existing Federal, State, and local statutes, ordinances, or regulations that may be applicable to its operations, including consumer protection and antitrust laws.

Appendix 2:

Requesting a LAP

Part 7a Procedures. The major steps involved in establishing a LAP under the Part 7a procedures are:

(1) DOC receives a formal request to establish a LAP;

(2) DOC contacts other parties which may have an interest in or be affected by the proposed LAP;

(3) DOC decides on the priority of the request;

(4) DOC publishes in the FEDERAL REGISTER for public comment a preliminary finding of need for the proposed LAP;

(5) If there is substantial support for establishing the LAP, DOC publishes a final finding of need. If not, a withdrawal of the preliminary finding is published;

(6) Workshops are arranged to receive expert advice needed to implement the LAP;

(7) DOC publishes in the *FEDERAL REGISTER* a notice of the establishment of the LAP and invites interested laboratories to apply for accreditation.

Part 7b and 7c Procedures. Similarly, for the optional procedures for use by Federal agencies (15 CFR Part 7b) and the optional procedures for use by private sector organizations (15 CFR Part 7c), the major steps are:

(1) A Federal agency (Part 7b) or qualified private sector organization (Part 7c) requests a LAP and cites the basis upon which it determined the need;

(2) DOC contacts other parties which may have an interest in or be affected by the proposed LAP;

(3) DOC decides on the priority of the request;

(4) DOC publishes in the *FEDERAL REGISTER* the request for the LAP asking that any comments regarding the need for the LAP be directed to the requestor with a copy forwarded to DOC;

(5) If after a 60 day period both DOC and the requestor agree to proceed, workshops may be arranged to acquire expert advice needed to implement the LAP; and

(6) DOC publishes in the *FEDERAL REGISTER* a notice of the establishment of the LAP and invites interested laboratories to apply for accreditation.

Appendix 3:

List of 1981 Documents

Date	Short Title
January 21	NVLAP Quarterly Report, 4th quarter 1980 (46 FR 6230-6264)
January 27	Proposed Amendment to NVLAP Procedures (46 FR 8910-8919)
January 29	NRC Request for Dosimetry LAP (46 FR 9689-9690)
February	NVLAP Tech Brief: Proficiency Testing for Carpet LAP
March	NVLAP News, 2nd issue
March 17	HUD Request for Solid Fuel Room Heaters LAP (46 FR 17073-17074)
April	*NBS Dimensions,* "Testing for Technical Competence", p.69
April 2	NVLAP Lab Bulletin No. 5: The Value of Your NVLAP Accreditation
April 16	NVLAP Quarterly Report, 1st quarter 1981 (46 FR 22252-22253)
June	*NIGP News,* "NVLAP—A National System for Laboratory Accreditation", by Peter S. Unger
June	*Concrete International* "NVLAP Accredited Concrete Laboratories", Vol 3, No. 6, p. 67
July	*Concrete Construction,* "Voluntary Accreditation for Concrete Procedures Lab", Vol. 26, No. 7, pp. 601-603.
July	NVLAP News, 3rd issue
July 8	NVLAP Quarterly Report, 2nd quarter 1981.
July 17	Amendment to NVLAP Procedures (46 FR 37029-37040)
August 10	NVLAP Report of July Accreditation Actions (46 FR 40555)
August 12	Notice of Public Workshop: Future Directions of Laboratory Accreditation in the U.S. (46 FR 40785-40787)
August 31	Notice of Solid Fuel Room Heaters Workshop (46 FR 43733)
September	NVLAP Tech Brief: Proficiency Testing for Carpet LAP
September 3	Notice of Open Meeting of U.S. Delegation to ILAC (46 FR 44213)
October	NVLAP News, 4th issue
October 1	NVLAP Lab Bulletin No.3: Informing the Public of Your Accreditation Status
October 7	Notice of Workshop Agenda on Future Directions of Laboratory Accreditation in the U.S. (46 FR 49630-49632)
October 19	Final Finding of Need to Accredit Laboratories that Provide Acoustical Testing Services (46 FR 51267-51271)
October 20	NVLAP Quarterly Report, 3rd quarter 1981 (46 FR 51426-51427)
November	NVLAP Tech Brief: Proficiency Testing for Insulation LAP
November 17	NVLAP Report of October Accreditation Actions (46 FR 56489-56490)
December	*The Construction Specifier,* "The National Voluntary Laboratory Accreditation Program," by John W. Locke
December	NVLAP Lab Bulletin No. 6: Addition of ASTM D2126 Procedure C to the Insulation LAP

Part II
Directory of Accredited Laboratories

This directory is current as of July 1, 1982

Section 1

ALPHABETICAL LISTING OF ACCREDITED LABORATORIES AND THE TEST METHODS FOR WHICH EACH LABORATORY IS ACCREDITED

NOTE: Testing laboratories accredited under NVLAP are not immune from the necessity of being in compliance with all legal obligations and responsibilities imposed by existing Federal, State, and local laws, ordinances, and regulations, including those related to consumer protection and antitrust prohibitions.

AGUIRRE ENGINEERS, INC.

Attn: Michael Gruber, P.O. Box 3814, Englewood, CO 80155

Accreditation Renewal Date: January 1, 1983 **Phone: (303) 771-4446**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

AMERICAN ADMIXTURES AND CHEMICALS CORP.

Attn: Michael Pistilli, 5909 North Rogers Avenue, Chicago, IL 60646

Accreditation Renewal Date: January 1, 1983 **Phone: (312) 286-3737**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

AMERICAN CARPET LABORATORIES, INC.

Attn: Michael D. Connell, P. O. Box 357, 111 West Nashville Street, Ringgold, GA 30736
Accreditation Renewal Date: January 1, 1983 **Phone: (404) 935-5672**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight—Uncoated (Para. 10-19)
		Pile Weight—Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness—(Para. 30-36)
		Tuft Height—(Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

AMERICAN TESTING LABORATORIES, INC.

Attn.: John S. Kassees, 784 Flory Mill Road, Box 4014, Lancaster, PA 17604
Accreditation Renewal Date: April 1, 1983 **Phone: (717) 569-0488**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

ARIZONA SAND AND ROCK COMPANY

Attn.: Roy Stegall, 1801 E. University Drive, P. O. Box 20067, Phoenix, AZ 85036
Accreditation Renewal Date: April 1, 1983 **Phone: (602) 254-8465**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method

NVLAP Code	*Designation*	*Short Title*
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

ARMSTRONG WORLD INDUSTRIES, INC., MARIETTA CARPET PLANT

Attn: John H. Cooper, Route 441, Marietta, PA 17547

Accreditation Renewal Date: January 1, 1983 **Phone: (717) 653-2031**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

THE ARUNDEL CORPORATION, GREENSPRING LABORATORY

Attn: David Wherley, 6806 Greenspring Avenue, Baltimore, MD 21209

Accreditation Renewal Date: January 1, 1983 **Phone: (301) 296-6400**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

ASSOCIATED TESTING LABORATORIES

Attn: George J. Murphy, 23 Vincent Street, Wayne, NJ 07470

Accreditation Renewal Date: April 1, 1983 **Phone: (201) 628-1363**

NVLAP Code	*Designation*	*Short Title*
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets

ATLANTIC TESTING LABORATORIES, LTD.
CICERO DIVISION

Attn.: Marcus Rotundo, P. O. Box 356, Cicero, NY 13039

Accreditation Renewal Date: April 1, 1983 **Phone: (315) 699-5281**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

BIGELOW-SANFORD, INC., GEORGIA RUG MILL

Attn: Van A. Pullen, Lyerly Street, Summerville, GA 30747

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 857-2421**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/B01	UM 44C Addendum 3	Attached Cushion Tests

BIGELOW-SANFORD, INC., TECHNICAL SERVICES

Attn: Hamir D. Merchant, P. O. Box 3089, Greenville, SC 29602

Accreditation Renewal Date: January 1, 1983 **Phone: (803) 299-2630**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)

NVLAP Code	*Designation*	*Short Title*
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B01	UM 44C Addendum 3	Attached Cushion Tests

BOWSER-MORNER TESTING LABS, INC., DAYTON, OHIO LABORATORY

Attn: Judith A. Castello, 420 Davis Avenue, P. O. Box 51, Dayton, OH 45401

Accreditation Renewal Date: January 1, 1983 **Phone: (513) 253-8805**

Designation	*NVLAP Code*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

BOWSER-MORNER TESTING LABS, INC., MAYSVILLE, KENTUCKY LABORATORY

Attn: Keith Swearingen, Route 8 West, P. O. Box 636, Maysville, KY 41056

Accreditation Renewal Date: January 1, 1983 **Phone: (606) 564-6711**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

BOWSER-MORNER TESTING LABS, INC., TOLEDO, OHIO LABORATORY

Attn: Richard Hoppenjans, 122 South St. Clair Street, P. O. Box 838, Toledo, OH 43696

Accreditation Renewal Date: January 1, 1983 **Phone: (419) 255-8200**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field

NVLAP Code	*Designation*	*Short Title*
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

BUTLER MANUFACTURING COMPANY RESEARCH CENTER

Attn: Marvin K. Snyder, 135th St. and Botts Road, Grandview, MO 64030

Accreditation Renewal Date: January 1, 1983 **Phone: (816) 763-3022**

NVLAP Code	*Designation*	*Short Title*
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

C. H. MASLAND AND SONS

Attn: David A. Boyles, P. O. Box 40, Carlisle, PA 17013

Accreditation Renewal Date: January 1, 1983 **Phone: (717) 249-1866**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

CAPITOL CEMENT

Attn: Thomas L. Vick, 11551 Nacogdoches Road, P. O. Drawer 33240, San Antonio, TX 78233

Accreditation Renewal Date: January 1, 1983 **Phone: (512) 655-3010**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

NVLAP Code	*Designation*	*Short Title*
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

CENTRAL READY-MIXED CONCRETE, RESEARCH & TECHNICAL CENTER

Attn: Christine B. Andresen, 4350 South 13th Street, Milwaukee, WI 53221

Accreditation Renewal Date: January 1, 1983 **Phone: (414) 282-4200**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

CERTAINTEED CORPORATION, INSULATION GROUP, R & D LAB

Attn: W. Francis Olix, 1400 Union Meeting Road, Blue Bell, PA 19422

Accreditation Renewal Date: January 1, 1983 **Phone: (215) 542-0500**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F01	ASTM D777 (as modified by HH-B-100B)	Flammability; Paper and paperboard
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation

NVLAP Code	*Designation*	*Short Title*
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

CERTIFIED TESTING LABORATORIES, INC.

Attn: John H. Frank, 1105 Riverbend Drive, P. O. Box 2041, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 226-1400**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets

NVLAP Code	*Designation*	*Short Title*
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

CHISHOLM TRAIL TESTING AND ENGINEERING COMPANY, INC.

Attn: James F. Rosendahl, 302 South Miller Street, Decatur, TX 76234

Accreditation Renewal Date: January 1, 1983 **Phone: (817) 627-5216**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

COMMERCIAL TESTING COMPANY, INC.

Attn: Deggary N. Priest, 1215 South Hamilton Street, P. O. Box 985, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 278-3935**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking

NVLAP Code	*Designation*	*Short Title*
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight - Uncoated (Para. 10-19) Pile Weight - Coated (Para. 20-29) as modified by UM 44C Pile Thickness - (Para. 30-36) Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

CONROCK CO., TESTING LABORATORY

Attn: Richard H. Campbell ,P.O. Box 2950, Terminal Annex, Los Angeles, CA 90051

Accreditation Renewal Date: January 1, 1983 **Phone: (213) 258-2777**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

CONSTRUCTION TECHNOLOGY LAB, DIVISION OF PORTLAND CEMENT ASSOCIATION

Attn: Paul Klieger, 5420 Old Orchard Road, Skokie, IL 60077

Accreditation Renewal Date: January 1, 1983 **Phone: (312) 966-6200**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

CONTRACTORS SUPPLY CORPORATION OF WEST VIRGINIA, INC.

Attn: Anthony A. Gulo, 24th and Water Streets, P. O. Box 6587, Wheeling, WV 26003

Accreditation Renewal Date: January 1, 1983 **Phone: (304) 232-1048**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

CORONET CARPETS, INC.

Attn: Winfred L. Jones, Coronet Drive, P. O. Box 1248, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 259-4511**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

THE DOLESE COMPANY, ENGINEERING LABORATORY

Attn: Rod Bond, 1324 North Broadway Drive, P. O. Box 677, Oklahoma City, OK 73101

Accreditation Renewal Date: January 1, 1983 **Phone: (405) 235-2311**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

DOW CHEMICAL USA, GRANVILLE RESEARCH CENTER

Attn: L. R. LaBelle, P. O. Box 515, Granville, OH 43023

Accreditation Renewal Date: January 1, 1983 **Phone: (614) 587-4300**

NVLAP Code	*Designation*	*Short Title*
01/D07	ASTM C272	Water absorption; Core materials
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

DYNATECH R/D COMPANY

Attn: Stephen E. Smith, 99 Erie Street, Cambridge, MA 02139

Accreditation Renewal Date: January 1, 1983 **Phone: (617) 868-8050**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

DYNATHERM ENGINEERING

Attn: James B. Funkhouser, 595 Marshan Lane, Lino Lakes, MN 55014

Accreditation Renewal Date: January 1, 1983 **Phone: (612) 786-1853**

NVLAP Code	*Designation*	*Short Title*
01/T04	ASTM C236	Thermal conductance; Guarded hot box

E & B CARPET MILLS, INC.

Attn: Robert H. Davis, 1020 Riverbend Drive, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 278-3197**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

ENGINEERING TESTING LABORATORY, CITY OF AKRON

Attn: Thomas H. Butler, 1420 Triplett Blvd.—Bldg. #2, Akron, OH 44306

Accreditation Renewal Date: January 1, 1983 **Phone: (216) 375-2861**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

FACTORY MUTUAL RESEARCH CORPORATION

Attn: William F. Maroni, 1151 Boston-Providence Turnpike, Norwood, MA 02062

Accreditation Renewal Date: January 1, 1983 **Phone: (617) 762-4300**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)

NVLAP Code	*Designation*	*Short Title*
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

FRANKLIN RESEARCH CENTER

Attn: Richard H. Hollinger, 20th and Parkway, Philadelphia, PA 19103

Accreditation Renewal Date: January 1, 1983 **Phone: (215) 448-1413**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

GALAXY CARPET MILLS, TESTING LABORATORY

Attn: Lou Childers, Industrial Blvd., P. O. Box 800, Chatsworth, GA 30705

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 695-9611**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

GARCO TESTING LABORATORIES

Attn: John H. Woffinden, 41 West Central Avenue, P. O. Box 7006, Salt Lake City, UT 84107
Accreditation Renewal Date: January 1, 1983 **Phone: (801) 266-4498**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

GENSTAR STONE PRODUCTS CO., QUALITY CONTROL LABORATORY

Attn: Robert L. Chester, 10300 Pulaski Highway, White Marsh, MD 21162
Accreditation Renewal Date: January 1, 1983 **Phone: (301) 628-4060**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

GEOSCIENCE LTD.

Attn: Heinz F. Poppendiek, 410 South Cedros Avenue, Solana Beach, CA 92075
Accreditation Renewal Date: January 1, 1983 **Phone: (714) 755-9396**

NVLAP Code	*Designation*	*Short Title*
01/D08	ASTM C302	Density; Preformed pipe insulation
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box

THE H. C. NUTTING COMPANY

Attn: Gregory J. Spieker, 4120 Airport Road, Cincinnati, OH 45226
Accreditation Renewal Date: January 1, 1983 **Phone: (513) 321-5816**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete

NVLAP Code	*Designation*	*Short Title*
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

HALES TESTING LABORATORIES, INC.

Attn: George H. Speers, 23286 Foley Street, P. O. Box 6124, Hayward, CA 94540

Accreditation Renewal Date: January 1, 1983 **Phone: (415) 887-1430**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

HARDING-LAWSON ASSOCIATES

Attn: James E. Nichols, 940 Matley Lane, Reno, NV. 89502

Accreditation Renewal Date: July 1, 1983 **Phone: (702) 329-6123**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION

Attn: William J. Groah, 1825 Michael Faraday Drive, P. O. Box 2789, Reston, VA 22090

Accreditation Renewal Date: January 1, 1983 **Phone: (703) 435-2900**

NVLAP Code	*Designation*	*Short Title*
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)

NVLAP Code	*Designation*	*Short Title*
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

HAUSER LABORATORIES

Attn: Ray L. Hauser, 5680 Central Avenue, P. O. Box G, Boulder, CO 80306

Accreditation Renewal Date: January 1, 1983 **Phone: (303) 443-4662**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

HERRON CONSULTANTS, INC.

Attn: Jon Hugh Peterson, 5555 Canal Road, Cleveland, OH 44125

Accreditation Renewal Date: January 1, 1983 **Phone: (216) 447-1335**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

INDEPENDENT TEXTILE TESTING SERVICE, INC.

Attn: Cornelius C. Setter, 1499 Murray Avenue, P. O. Box 1948, Dalton, GA 30720
Accreditation Renewal Date: January 1, 1983 **Phone: (404) 278-3013**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight - Uncoated (Para. 10-19)
		Pile Weight - Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness - (Para. 30-36)
		Tuft Height - (Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

INSTA-FOAM PRODUCTS, INC.

Attn: Ronald L. Smith, 1500 Cedarwood Drive, Joliet, IL 60435
Accreditation Renewal Date: January 1, 1983 **Phone: (815) 741- 6904**

NVLAP Code	*Designation*	*Short Title*
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

INTEST LABORATORIES, INC.

Attn: Donald L. Valsvik, 2820 Anthony Lane South, Minneapolis, MN 55418
Accreditation Renewal Date: January 1, 1983 **Phone: (612) 781-2603**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)

JIM WALTER RESEARCH CORPORATION

Attn: Alan P. Conroy, 10301 Ninth Street North, St. Petersburg, FL 33702
Accreditation Renewal Date: January 1, 1983 **Phone: (813) 576-4171**

NVLAP Code	*Designation*	*Short Title*
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 13 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D09	ASTM C303	Density; Preformed block insulation
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)

NVLAP Code	*Designation*	*Short Title*
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S07	ASTM C273	Shear test; Sandwich construction
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

KELSO INDUSTRIES, INC.

Attn: Chris G. Slate, 7002 Industrial Road, P. O. Box 659, Galveston, TX 77553

Accreditation Renewal Date: January 1, 1983 **Phone: (713) 744-5341**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

LANDER THERMAL CONDUCTIVITY LABORATORY

Attn: R. M. Lander, 1320 West 28th Street, Minneapolis, MN 55408

Accreditation Renewal Date: January 1, 1983 **Phone: (612) 872-7230**

NVLAP Code	*Designation*	*Short Title*
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T05	ASTM C335	Thermal conductivity; Pipe insulation

LEWIS ENGINEERING, INC.

Attn: William R. Cole, 402 East Main Street, Plainfield, IN 46168

Accreditation Renewal Date: January 1, 1983 **Phone: (317) 839-2412**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

NVLAP Code	*Designation*	*Short Title*
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

LINCOLN-DEVORE TESTING LABORATORY, INC.

Attn: George D. Morris, 1000 West Fillmore Street, Colorado Springs, CO. 80907

Accreditation Renewal Date: July 1, 1983 **Phone: (303) 632-3593**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

LOUISIANA-PACIFIC CORPORATION, PABCO R & D LABORATORY

Attn: F. B. Hutto, Jr., 1110 Sixteen Road, Fruita, CO 81521

Accreditation Renewal Date: January 1, 1983 **Phone: (303) 858-3694**

NVLAP Code	*Designation*	*Short Title*
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T05	ASTM C335	Thermal conductivity; Pipe insulation

MANVILLE CORPORATION, R & D CENTER

Attn: Robert L. Mason, P. O. Box 5108, Denver, CO 80217

Accreditation Renewal Date: January 1, 1983 **Phone: (303) 978-5553**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 13 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation

NVLAP Code	*Designation*	*Short Title*
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D14	ASTM C520	Density; Granular loose-fill
01/F01	ASTM D777 (as modified by HH-B-100B)	Flammability; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

MATERIALS SERVICE CORPORATION

Attn: John Albinger, 300 W. Washington Stret, Chicago, IL 60606

Accreditation Renewal Date: January 1, 1983 **Phone: (312) 372-3600**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

NAHB RESEARCH FOUNDATION, INC.

Attn: Hugh Angleton, 627 Southlawn Lane, P. O. Box 1627, Rockville, MD 20850

Accreditation Renewal Date: January 1, 1983 **Phone: (301) 762-4200**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

NORTHERN TESTING LABORATORIES, INC., BILLINGS AREA LABORATORY

Attn: Larry O'Dell, P. O. Box 30615, Billings, MT 59107

Accreditation Renewal Date: January 1, 1983 **Phone: (406) 248-9161**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NORTHERN TESTING LABORATORIES, INC., BOISE AREA LABORATORY

Attn: Roger W. Pocta, P. O. Box 7867, Boise, ID 83707

Accreditation Renewal Date: January 1, 1983 **Phone: (208) 377-2100**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NORTHERN TESTING LABORATORIES, INC., GREAT FALLS AREA LABORATORY

Attn: Robert W. Gillespie, P. O. Box 951, Great Falls, MT 59403

Accreditation Renewal Date: January 1, 1983 **Phone: (406) 453-1641**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete

NVLAP Code	*Designation*	*Short Title*
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

OLIN CORPORATION, PHYSICAL TESTING LABORATORY

Attn: D. Robert Shine, 275 Winchester Avenue, Bldg. 117C, P. O. Box 30-275, New Haven, CT 06511
Accreditation Renewal Date: January 1, 1983 **Phone: (203) 789-5892**

NVLAP Code	*Designation*	*Short Title*
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/S07	ASTM C273	Shear test; Sandwich construction
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORP., TECHNICAL CENTER LABORATORY

Attn: William M. Edmunds, Route 16, P. O. Box 415, Granville, OH 43023
Accreditation Renewal Date: January 1, 1983 **Phone: (614) 587-7024**

NVLAP Code	*Designation*	*Short Title*
01/C0	ASTM C739 (para. 7.7 in 77 version)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
01/D06	ASTM C209 (para. 13 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D07	ASTM C272	Water absorption; Core materials
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method

NVLAP Code	*Designation*	*Short Title*
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D24	ASTM C739 (para. 7.5 in 77 version)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F01	ASTM D777 (as modified by HH-B-100B)	Flammability; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version,	Smoldering combustion; Cellulosic fiber (loose-fill) Amendment 1)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S07	ASTM C273	Shear test; Sandwich construction
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/S10	ASTM D828	Tensile breaking strength; Paper and paperboard

NVLAP Code	*Designation*	*Short Title*
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02	ASTM D591	Starch in paper; Qualitative test
01/V03	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

OWENS-CORNING FIBERGLAS CORP., BARRINGTON, NEW JERSEY PLANT LABORATORY

Attn: Andrew Green, Davis & Shreeve Roads, Barrington, NJ 08007

Accreditation Renewal Date: January 1, 1983 **Phone: (609) 547-9200**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORP., DELMAR, NEW YORK PLANT LABORATORY

Attn: Mark P. Arnold, Route 32, Feura Bush Road, Delmar, NY 12054

Accreditation Renewal Date: January 1, 1983 **Phone: (518) 439-9341**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORP., FAIRBURN, GEORGIA PLANT LABORATORY

Attn: John Faust, 700 McLaren Road, Fairburn, GA 30213

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 964-9811**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORP., KANSAS CITY, KANSAS PLANT LABORATORY

Attn: Glen McCoy, 300 Sunshine Road, Kansas City, KS 66115

Accreditation Renewal Date: January 1, 1983 **Phone: (913) 281-2811**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORP., NEWARK, OHIO PLANT LABORATORY

Attn: P. D. Shull, Case Avenue, Newark, OH 43055

Accreditation Renewal Date: January 1, 1983 **Phone: (614) 345-3441**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORP., SANTA CLARA, CALIFORNIA PLANT LABORATORY

Attn: Monte Schenkin, 960 Central Expressway, Santa Clara, CA 95052

Accreditation Renewal Date: January 1, 1983 **Phone: (408) 727-3535**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

OWENS-CORNING FIBERGLAS CORP., WAXAHACHIE, TEXAS PLANT LABORATORY

Attn: Mark Kwasowski, Interstate 35 East, Waxahachie, TX 75165

Accreditation Renewal Date: January 1, 1983 **Phone: (214) 937-1340**

NVLAP Code	*Designation*	*Short Title*
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

PITTSBURGH TESTING LABORATORY

Attn: Martin C. Falk, 850 Poplar Street, Pittsburgh, PA 15220

Accreditation Renewal Date: October 1, 1982 **Phone: (412) 922-4000**

NVLAP Code	*Designation*	*Short Title*
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

R. W. SIDLEY, INC., SIDLEY QUALITY CONTROL LABORATORY

Attn: Lawrence McCune, 6900 Madison Road, Thompson, OH 44086

Accreditation Renewal Date: January 1, 1983 **Phone: (216) 298-3232**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

SHAW INDUSTRIES, INC.

Attn: Carey Mitchell, Plant #4, S. Hamilton St. Ext., P. O. Drawer 2128, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 278-3812**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight—Uncoated (Para. 10-19) Pile Weight—Coated (Para. 20-29) as modified by UM 44C Pile Thickness—(Para. 30-36) Tuft Height—(Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/F03	DoC FF1-70	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination

SMITH-EMERY COMPANY

Attn: George E. Battey, Jr., 781 East Washington Boulevard, Los Angeles, CA 90021

Accreditation Renewal Date: January 1, 1983 **Phone: (213) 749-3411**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

SOUTHWEST RESEARCH INSTITUTE, DEPARTMENT OF FIRE TECHNOLOGY

Attn: Carl A. Hafer, 6220 Culebra Road, San Antonio, TX 78284

Accreditation Renewal Date: January 1, 1983 **Phone: (512) 684-5111**

NVLAP Code	*Designation*	*Short Title*
01/T04	ASTM C236	Thermal conductance; Guarded hot box
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F02	UL 992	Surface Flammability
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

SOUTHWESTERN LABORATORIES

Attn: William J. Harper, 222 Cavalcade, P. O. Box 8768, Houston, TX 77009

Accreditation Renewal Date: January 1, 1983 **Phone: (713) 692-9151**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

SPARRELL ENGINEERING RESEARCH CORPORATION

Attn: James K. Sparrell, Bristol Road, P. O. Box 130, Damariscotta, ME 04543

Accreditation Renewal Date: January 1, 1983 **Phone: (207) 563-3224**

NVLAP Code	*Designation*	*Short Title*
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

STANDARD TESTING AND ENGINEERING COMPANY

Attn: Daniel B. Hapke, 3400 Lincoln Boulevard, Oklahoma City, OK 73105

Accreditation Renewal Date: January 1, 1983 **Phone: (405) 528-0541**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

STS CONSULTANTS LTD.
RALEIGH NORTH CAROLINA OFFICE

Attn.: Barney Hale, P. O. Box 12015, Research Triangle Park, NC 27709

Accreditation Renewal Date: April 1, 1983 **Phone: (919) 787-5124**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

STS CONSULTANTS LTD.

Attn.: Michael T. Russell, 111 Pfingsten Road, Northbrook, IL, 60062

Accreditation Renewal Date: January 1, 1983 **Phone: (312) 273-5440**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

THE TANNER COMPANIES, UNITED METRO DIVISION LABORATORY

Attn: Harold J. Wright, 3240 South 19th Avenue, Phoenix, AZ 85036

Accreditation Renewal Date: January 1, 1983 **Phone: (602) 262-1323**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

TECHNICAL MICRONICS CONTROL, INC.

Attn: Ronald McClendon, P. O. Box 1330, Huntsville, AL 35807

Accreditation Renewal Date: January 1, 1983 **Phone: (205) 837-4430**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, (loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)

TESTING ENGINEERS, INC., OAKLAND DIVISION

Attn: Clifford N. Craig, 2811 Adeline Street, P. O. Box 24075, Oakland, CA 94623

Accreditation Renewal Date: January 1, 1983 **Phone: (415) 835-3142**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

TESTING ENGINEERS, INC., SANTA CLARA DIVISION

Attn: Lee W. Mattis, 401 Aldo Avenue, Santa Clara, CA 95050

Accreditation Renewal Date: January 1, 1983 **Phone: (408) 988-8888**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method

NVLAP Code	*Designation*	*Short Title*
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

TEXAS TESTING LABORATORIES, INC.

Attn: Robert L. Henry, 1526 S. Good-Latimer Expressway, P. O. Box 2144, Dallas, TX 75221

Accreditation Renewal Date: January 1, 1983 **Phone: (214) 428-7481**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

THERMTRON RESEARCH LABORATORY

Attn: Milton L. Gerber, Baer Field, P. O. Box 9146, Fort Wayne, IN 46899

Accreditation Renewal Date: January 1, 1983 **Phone: (219) 747-9183**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)

TREND/ROXBURY DIVISIONS OF WWG INDUSTRIES, INC.

Attn: Tom Blalock, Redmond Road, P. O. Box 162, Rome, GA 30161

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 291-5349**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight—Uncoated (Para. 10-19) Pile Weight—Coated (Para. 20-29) as modified by UM 44C Pile Thickness—(Para. 30-36)

NVLAP Code	*Designation*	*Short Title*
		Tuft Height—(Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination
03/F03	DoC FF1-70	Methenamine Pill Test
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

TWIN CITY TESTING AND ENGINEERING LABORATORY, INC.

Attn: Richard Stehly, 662 Cromwell Avenue, St. Paul, MN 55114

Accreditation Renewal Date: January 1, 1983 **Phone: (612) 645-3601**

NVLAP Code	*Designation*	*Short Title*
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/T04	ASTM C236	Thermal conductance; Guarded hot box
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

UNDERWRITERS LABORATORIES, INC., NORTHBROOK, ILLINOIS

Attn: Steve Mazzoni, 333 Pfingsten Road, Northbrook, IL 60062

Accreditation Renewal Date: January 1, 1983 **Phone: (312) 272-8800**

NVLAP Code	*Designation*	*Short Title*
01/C01	ASTM C739 (para. 7.7 in 77 version)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D01	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D03	ASTM C209 (para. 6 in 72 version)	Thickness; Board (cellulosic fiber)
01/D04	ASTM C209 (para. 13 in 72 version)	Water absorption, 2 hour; Board (cellulosic fiber)
01/D05	ASTM C209 (para. 13 in 72 version) by D1037 (para. 100-106 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)

NVLAP Code	*Designation*	*Short Title*
01/D06	ASTM C209 (para. 13 in 72 version) by D1037 (para. 107-110 in 72 version)	Linear expansion; Board (cellulosic fiber)
01/D08	ASTM C302	Density; Preformed pipe insulation
01/D09	ASTM C303	Density; Preformed block insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D14	ASTM C520	Density; Granular loose-fill
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D24	ASTM C739 (para. 7.5 in 77 version)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F06	ASTM C739 (para. 10.4 in 77 version)	Flame resistance permanency; Cellulosic fiber (loose-fill)
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S03	ASTM C209 (para. 9 in 72 version)	Transverse strength; Board (cellulosic fiber)
01/S04	ASTM C209 (para. 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/S05	ASTM C209 (para. 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/S06	ASTM C209 (para. 12 in 72 version)	Tensile strength; Perpendicular to surface
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02	ASTM D591	Starch in paper; Qualitative test
01/V03	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F02	UL 992	Surface Flammability
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)

UNDERWRITERS LABORATORIES, INC., SANTA CLARA, CALIFORNIA LABORATORY

Attn: J. L. Brooks, 1655 Scott Boulevard, Santa Clara, CA 95050

Accreditation Renewal Date: January 1, 1983 **Phone: (408) 985-2400**

NVLAP Code	*Designation*	*Short Title*
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)

UNION ROCK AND MATERIALS CORP.

Attn.: Ronald Keefer, P. O. Box 8007, Phoenix, AZ 85066

Accreditation Renewal Date: July 1, 1983 **Phone: (603) 276-4211**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

UNITED STATES GYPSUM COMPANY

Attn: William Porter, 700 N. U.S. Highway 45, Libertyville, IL 60048

Accreditation Renewal Date: July 1, 1983 **Phone: (312) 362-9797**

NVLAP Code	*Designation*	*Short Title*
01/T06	ASTM C518	Thermal Transmission Properties; Heat Flow Meter

UNITED STATES TESTING COMPANY, INC., HOBOKEN, NEW JERSEY LABORATORY

Attn: Carl B. Yoder, 1415 Park Avenue, Hoboken, NJ 07030

Accreditation Renewal Date: January 1, 1983 **Phone: (201) 792-2400**

NVLAP Code	*Designation*	*Short Title*
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking

NVLAP Code	*Designation*	*Short Title*
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight—Uncoated (Para. 10-19)
		Pile Weight—Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness—(Para. 30-36)
		Tuft Height—(Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 and 3	Attached Cushion Tests

UNITED STATES TESTING COMPANY, INC., CALIFORNIA DIVISION

Attn: Bernd Givon, 5555 Telegraph Road, Los Angeles, CA 90040

Accreditation Renewal Date: January 1, 1983 **Phone: (213) 723-7181**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	HH-I-515 (para. 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics proc. A-Crosshead)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight—Uncoated (Para. 10-19)
		Pile Weight—Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness—(Para. 30-36)
		Tuft Height—(Para. 37-45) as modified by UM 44C

NVLAP Code	*Designation*	*Short Title*
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination
03/F01	ASTM E84	Surface Flammability (Carpet)
03/F03	DoC FF1-70	Methenamine Pill Test
03/F04	ASTM E648	Radiant Panel (Carpet)
03/B02	UM 44C Addenda 2 & 3	Attached Cushion Tests

UNITED STATES TESTING COMPANY, INC., TULSA DIVISION

Attn: Fred D. Wampnar, 1341 North 108th East Avenue, Tulsa, OK 74116

Accreditation Renewal Date: January 1, 1983 **Phone: (918) 437-8333**

NVLAP Code	*Designation*	*Short Title*
01/C02	HH-I-515 (para. 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D10	ASTM C355	Water vapor transmission; Thick materials Desiccant method
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D25	HH-I-515 (para. 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	HH-I-515 (para. 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F08	HH-I-515 (para. 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/V05	HH-I-515 (para. 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
01/V06	HH-I-515 (para. 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

THE UPJOHN COMPANY, DONALD S. GILMORE LABORATORIES

Attn: Carol L. Brown, 410 Sackett Point Road, North Haven, CT 06473

Accreditation Renewal Date: January 1, 1983 **Phone: (203) 281-2795**

NVLAP Code	*Designation*	*Short Title*
01/D10	ASTM C355	Water vapor transmission; Thick materials; Desiccant method
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D19	ASTM D2126	Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S07	ASTM C273	Shear test; Sandwich construction
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

W. R. GRACE & COMPANY, CONSTRUCTION PRODUCTS DIVISION LABORATORY

Attn: Forrest R. Hurley, 62 Whittemore Avenue, Cambridge, MA 02140

Accreditation Renewal Date: January 1, 1983 **Phone: (617) 876-1400**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

THE WALT KEELER COMPANY, INC.

Attn: Kelly B. Callison, 826 East Lincoln Street, P. O. Box 197, Wichita, KS 67201

Accreditation Renewal Date: January 1, 1983 **Phone: (316) 265-0615**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method

WALTER CARPET MILLS

Attn: Xavier Castro, 14641 East Don Julian Road, P.O. Box 1252, City of Industry, CA 91749

Accreditation Renewal Date: January 1, 1983 **Phone: (213) 968-1464**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight—Uncoated (Para. 10-19)
		Pile Weight—Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness—(Para. 30-36)
		Tuft Height—(Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

WALTER H. FLOOD AND COMPANY, INC.

Attn: Paul E. Flood, 4421 Harrison Street, Hillside, IL 60162

Accreditation Renewal Date: April 1, 1983 **Phone: (312) 449-0500**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

WESTERN TECHNOLOGIES, INC.

Attn: Craig Wiedeman, 3737 East Broadway Road, P. O. Box 21387, Phoenix, AZ 85036

Accreditation Renewal Date: January 1, 1983 **Phone: (602) 268-1381**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

WEST VIRGINIA DEPARTMENT OF HIGHWAYS MATERIALS CONTROL, SOIL AND TESTING DIVISION

Attn: Thomas M. Dugan, 312 Michigan Avenue, Charleston, WV 25311

Accreditation Renewal Date: April 1, 1983 **Phone: (304) 348-3160**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

WORLD CARPETS, INC.

Attn: Charles Howell, One World Plaza, Dalton, GA 30720

Accreditation Renewal Date: January 1, 1983 **Phone: (404) 278-8000**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings
		Pile Weight—Uncoated (Para. 10-19)
		Pile Weight—Coated (Para. 20-29) as modified by UM 44C
		Pile Thickness—(Para. 30-36)
		Tuft Height—(Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

Note: The following two laboratories received accreditation after production of this publication was begun, and have been added to the end of this directory in order to provide the latest information on accredited laboratories.

FOX & ASSOCIATES OF ARIZONE, INC.

Attn: Ronald L. Pruett, 3301 E. Madison Street, Phoenix, AZ 85034

Accreditation Renewal Date: July 1, 1983 **Phone: (612) 244-8197**

NVLAP Code	*Designation*	*Short Title*
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/S01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

SALEM CARPET LABORATORY

Attn: Michael A. Corbin, P.O. Box 160, Chatsworth, GA 30705

Accreditation Renewal Date: July 1, 1983 **Phone: (404) 695-4663**

NVLAP Code	*Designation*	*Short Title*
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/D01	ASTM D418	Methods of Testing Woven and Tufted Pile Floor Coverings Pile Weight—Uncoated (Para. 10-19) Pile Weight—Coated (Para. 20-29) as modified by UM 44C Pile Thickness—(Para. 30-36) Tuft Height—(Para. 37-45) as modified by UM 44C
03/D02	DDD-C-95A	Shrinkage
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method—Breaking Strength
	191-5950	Textile Test Method—Delamination
03/F03	DoC FF1-70	Methenamine Pill Test

Section 2

INDEX OF TEST METHODS AND THE LABORATORIES ACCREDITED FOR EACH TEST METHOD

The following index provides a cross reference of accredited laboratories with test methods under each LAP. Each page number under each test method refers to the page number in Section 1 of this Directory in which, for each laboratory, the name, address, primary contact, phone number, and list of accredited test methods are identified.

INSULATION LAP—CORROSIVENESS TEST METHODS

01/CO1 ASTM C739 Corrosiveness; cellulosic fiber (loose-fill) (para. 7.7 in 77 version)
30, 39

01/C02 HH-I-515 Corrosiveness; cellulosic fiber (loose-fill) (para. 4.8.5 in D version, Amendment 1)
13, 14, 15, 18, 19, 23, 25, 30, 37, 38, 39, 42, 43

INSULATION LAP—DIMENSIONS, STABILITY, AND DENSITY PROPERTIES TEST METHODS

01/D01 ASTM C136 Sieve or screen analysis
13, 39

01/D02 ASTM C167 Thickness and density; blanket and batt
13, 27, 29, 30, 32, 32, 32, 32, 33, 33, 33, 39

01/D03 ASTM C209 Thickness; board (cellulosic fiber) (para. 6 in 72 version)
25, 27, 30, 39

01/D04 ASTM C209 Water absorption, 2 hour; board (cellulosic fiber) (para. 13 in 72 version)
25, 27, 30, 39

O1/DO5 ASTM C209 Water absorption, 24 hour; board (cellulosic fiber) (para. 13 in 72 version by D1037; para. 100-106 in 72 version)
25, 27, 30, 39

01/D06 ASTM C209 Linear expansion; board (cellulosic fiber) (para. 13 in 72 version by D1037; para. 107-110 in 72 version)
25, 27, 30, 39

01/D07 ASTM C272 Water absorption; core materials
18, 30

01/D08 ASTM C302 Density; preformed pipe insulation
13, 21, 24, 27, 30, 39

01/D09 ASTM C303 Density; preformed block insulation
13, 24, 25, 27, 30, 32, 32, 33, 33, 33, 39

01/D10 ASTM C355 Water vapor transmission; thick materials; desiccant method
18, 24, 27, 30, 33, 39, 42, 43, 43

01/D11 ASTM C356 Linear shrinkage; soaking heat; preformed high temperature insulation
27, 30

01/D12 ASTM C411 Hot-surface performance; high temperature insulation
24, 27, 30

01/D13 ASTM C519 Density; loose-fill (fibrous)
13, 27, 29, 30, 39, 41

01/D14 ASTM C520 Density; granular loose-fill
27, 39

01/D15 ASTM D756 Weight and shape changes; accelerated service (proc. A); plastics
24, 30

01/D16 ASTM D756 Weight and shape changes; accelerated service (proc. B); plastics
24, 30

01/D17 ASTM D756 Weight and shape changes; accelerated service (proc. E); plastics
24, 30

01/D18 ASTM D1622 Apparent density; rigid cellular plastics
18, 24, 25, 30, 30, 39, 39, 42, 43, 43

01/D19 ASTM D2126 Response to thermal and humid; aging (proc. B); rigid cellular plastics
18, 24, 25, 30, 30, 43

01/D20 ASTM D2126 Response to thermal and humid; aging (proc. D); rigid cellular plastics
18, 24, 25, 30, 30

01/D21 ASTM D2126 Response to thermal and humid; aging (proc. E); rigid cellular plastics
18, 24, 25, 30, 30, 42

01/D22 ASTM D2126 Response to thermal and humid; aging (proc. F); rigid cellular plastics
18, 24, 25, 30

01/D23 ASTM D2842 Water absorption; rigid cellular plastics
18, 24, 25, 30, 33, 43

01/D24 ASTM C739 Moisture absorption; cellulosic fiber (loose-fill) (para. 7.5 in 77 version)
30, 39

01/D25 HH-I-515 Moisture absorption; cellulosic fiber (loose-fill) (para. 4.8.3 in D version, Amendment 1)
13, 14, 15, 18, 19, 23, 30, 39, 43

01/D26 HH-I-515 Settled density; cellulosic fiber (loose-fill) (para. 4.8.1 in D version, Amendment 1)
13, 14, 15, 18, 19, 23, 25, 30, 37, 38, 39, 41, 42, 43

INSULATION LAP—FIRE PROPERTIES TEST METHODS

01/F01 ASTM D777 (as modified by HH-B-100B) Flammability; paper and paperboard
13, 27, 30

01/F02 ASTM E84 Surface burning characteristics; building materials
19, 22, 27, 30, 39, 41, 41, 42

01/F05 ASTM E136 Behavior of Materials in a Vertical Tube Furnace
13, 23, 27, 30, 42

01/F06 ASTM C739 Flame resistance permanency; cellulosic fiber (loose-fill) (para. 10.4 in 77 version)
39

01/F07 HH-I-515 Critical radiant flux; radiant panel (cellulosic fiber, loose-fill) (para. 4.8.7 in D version, Amendment 1)
13, 14, 15, 19, 22, 23, 25, 30, 37, 38, 39, 41, 41, 42

01/F08 HH-I-515 Smoldering combustion; cellulosic fiber (loose-fill) (para. 4.8.8 in D version, Amendment 1)
13, 14, 15, 19, 23, 25, 30, 37, 38, 39, 41, 43

INSULATION LAP—STRENGTH PROPERTIES TEST METHODS

01/S01 ASTM C165 Compressive properties; thermal insulation (proc. A)
13, 18, 25, 27, 30

01/S02 ASTM C203 Breaking load/flexural strength; preformed block insulation
18, 25, 27, 30, 39, 43

01/S03 ASTM C209 Transverse strength; board (cellulosic fiber) (para. 9 in 72 version)
25, 27, 30, 39

01/S04 ASTM C209 Deflection at specified load; board (cellulosic fiber) (para. 10 in 72 version)
25, 27, 30, 39

01/S05 ASTM C209 Tensile strength; parallel to surface; board (cellulosic fiber) (para. 11 in 72 version)
25, 27, 30, 39

01/S06 ASTM C209 Tensile strength; perpendicular to surface (para. 12 in 72 Version)
25, 27, 30, 39

01/S07 ASTM C273 Shear test; sandwich construction
25, 30, 30, 43

01/S08 ASTM C446 Breaking load/modulus of rupture; preformed pipe insulation
13, 27, 30, 39

01/S09 ASTM D781 Puncture test; paperboard and fiberboard
13, 27, 30

01/S10 ASTM D828 Tensile breaking strength; paper and paperboard
13, 27, 30

01/S11 ASTM D1621 Compressive properties; rigid cellular plastics (proc. A-crosshead)
18, 24, 25, 30, 30, 33, 39, 42, 43

INSULATION LAP—THERMAL PROPERTIES TEST METHODS

01/T01 ASTM C177 Thermal transmission properties; low-temperature guarded hot plate
13, 18, 18, 21, 25, 26, 27, 27, 30, 35

01/T04 ASTM C236 Thermal conductance; guarded hot box
12, 13, 18, 18, 25, 27, 30, 35, 35, 39

01/T05 ASTM C335 Thermal conductivity; pipe insulation
13, 18, 25, 26, 27, 27, 30

01/T06 ASTM C518 Thermal transmission properties; heat flow meter
12, 13, 15, 18, 18, 23, 24, 25, 27, 29, 30, 30, 32, 32, 32, 33, 33, 33, 35, 37, 39, 41, 43

01/T09 ASTM C653 Thermal resistance (rec. practice); blanket (mineral fiber) 13, 23, 27, 29, 30, 39

01/T10 ASTM C687 Thermal resistance (rec. practice); loose-fill (fibrous)
13, 27, 29, 30, 39

INSULATION LAP—VAPOR BARRIERS PROPERTIES TEST METHODS

01/V02 ASTM D591 Starch in paper; qualitative test
30, 39

01/V03 ASTM D2020 Mildew (fungus) resistance; paper and paperboard
30, 39

01/V04 ASTM E96 Water vapor transmission; thin sheets (proc. A)
13, 25, 27, 30, 42, 43

01/V05 HH-I-515 Fungus; cellulosic fiber (loose-fill) (para. 4.8.6 in D version, Amendment 1)
23, 30, 37, 39, 43

01/V06 HH-I-515 Starch; cellulosic fiber (loose-fill) (para. 4.8.9 in D version, Amendment 1)
14, 15, 18, 19, 23, 30, 39, 42, 43

CONCRETE LAP TEST METHODS

02/M01 ASTM C31 Making and Curing Concrete Test Specimens in the Field
02/M03 ASTM C172 Sampling Fresh Concrete
02/P01 ASTM C143 Slump of Portland Cement Concrete
02/W01 ASTM C138 Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01 ASTM C231 Air Content of Freshly Mixed Concrete by the Pressure Method
7, 7, 8, 9, 10, 11, 11, 12, 13, 16, 17, 17, 19, 20, 21, 21, 21, 22, 23, 26, 26, 26, 28, 29, 29, 29, 33, 34, 34, 35, 35, 36, 36, 36, 37, 37, 38, 39, 44, 44, 45, 45, 45

02/S01 ASTM C39 Compressive Strength of Cylindrical Concrete Specimens
7, 7, 8, 9, 10, 11, 11, 11, 12, 13, 16, 16, 17, 17, 19, 20, 21, 21, 21, 22, 23, 26, 26, 28, 29, 29, 29, 33, 34, 34, 35, 35, 36, 36, 36, 37, 37, 38, 39, 44, 45, 45, 45

02/A02 ASTM C173 Air Content of Freshly Mixed Concrete by the Volumetric Method
7, 8, 8, 9, 10, 11, 11, 11, 16, 17, 21, 21, 21, 22, 23, 26, 29, 29, 29, 33, 34, 34, 35, 35, 36, 36, 36, 37, 37, 38, 39, 44, 45, 45, 45

CARPET LAP TEST METHODS

03/C01 AATCC 16E Colorfastness to Light (Xenon Arc)
8, 9, 10, 10, 12, 14, 15, 15, 17, 19, 20, 24, 34, 38, 41, 42, 44, 46

03/C02 AATCC 8 Colorfastness to Crocking
8, 9, 10, 10, 12, 14, 15, 15, 17, 19, 20, 24, 24, 28, 41, 42, 44, 46

03/D01 ASTM D418 Methods of Testing Woven and Tufted Pile Floor Coverings: Pile Weight—Uncoated (Para. 10-19); Pile Weight—Coated (Para. 20-29) as modified by UM 44C; Pile Thickness (Para. 30-36); Tuft Height—(Para. 37-45) as modified by UM 44C
8, 9, 10, 10, 12, 14, 15, 15, 17, 19, 20, 24, 34, 38, 41, 42, 44, 46

03/D02 DDD-C-95A Shrinkage
8, 9, 10, 10, 12, 14, 15, 15, 17, 19, 20, 24, 24, 28, 41, 42, 44, 46

03/S01 ASTM D1335 Tuft Bind of Floor Coverings (Federal Test Method: Standard 191-5100, Textile Test Method—Breaking Strength; Standard 191-5950, Textile Test Method—Delamination
8, 9, 10, 10, 12, 14, 15, 15, 17, 19, 20, 24, 34, 38, 41, 42, 44, 46

03/E01 AATCC 134/CRI 102 Electrostatic Propensity of Carpets
9, 10, 14, 24

03/F01 ASTM E84 Surface Flammability (Carpet)
15, 19, 22, 35, 39, 41, 42

03/F02 UL 992 Surface Flammability
35, 39

03/F03 DoC FF1-70 Methenamine Pill Test
8, 9, 10, 10, 12, 14, 15, 15, 17, 19, 20, 24, 34, 35, 38, 39, 41, 42, 44, 46

03/F04 ASTM E648 Radiant Panel (Carpet)
10, 14, 15, 19, 22, 23, 35, 39, 41, 42

03/B01 UM 44C, Addendum 3 Attached Cushion Tests
10, 10

03/B02 UM 44C, Addendum 2 and 3 Attached Cushion Tests
8, 14, 15, 20, 24, 38, 41, 42

Section 3

INDEX OF ACCREDITED LABORATORIES BY STATE

The following index provides a cross reference of accredited laboratories by State. Each page number after each State refers to the page number in Section 1 of this Directory in which, for each laboratory, the name, address, phone number, and list of accredited test methods are identified.

NBS-114A (REV. 2-8C)

U.S. DEPT. OF COMM. BIBLIOGRAPHIC DATA SHEET (See instructions)	1. PUBLICATION OR REPORT NO. NBS SP 636	2. Performing Organ. Report No.	3. Publication Date September 1982

4. TITLE AND SUBTITLE

NVLAP
Fifth Annual Report and Directory of Accredited Laboratories

5. AUTHOR(S)

Peter S. Unger

6. PERFORMING ORGANIZATION (If joint or other than NBS, see instructions)

NATIONAL BUREAU OF STANDARDS
DEPARTMENT OF COMMERCE
WASHINGTON, D.C. 20234

7. Contract/Grant No.

8. Type of Report & Period Covered

Annual

9. SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (Street, City, State, ZIP)

Same as 6

10. SUPPLEMENTARY NOTES

☐ Document describes a computer program; SF-185, FIPS Software Summary, is attached.

11. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here)

This annual report of the National Voluntary Laboratory Accreditation Program (NVLAP) is prepared in accordance with NVLAP Procedures (Title 15 CFR Parts 7a, 7b, and 7c). Part I summarizes significant activities, including program changes, accreditation actions, and ongoing discussions concerning laboratory accreditation on the national and international levels. Part II is a directory of laboratories currently accredited on behalf of the Secretary of Commerce.

12. KEY WORDS (Six to twelve entries; alphabetical order; capitalize only proper names; and separate key words by semicolons)

accredited laboratories; laboratory accreditation process; laboratory accreditation programs

13. AVAILABILITY

☒ Unlimited

☐ For Official Distribution. Do Not Release to NTIS

☒ Order From Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

☐ Order From National Technical Information Service (NTIS), Springfield, VA. 22161

14. NO. OF PRINTED PAGES 57

15. Price $4.75

☆U.S. GOVERNMENT PRINTING OFFICE: 1982-360-997/2226 USCOMM-DC 6043-P80

NBS TECHNICAL PUBLICATIONS

PERIODICALS

JOURNAL OF RESEARCH—The Journal of Research of the National Bureau of Standards reports NBS research and development in those disciplines of the physical and engineering sciences in which the Bureau 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 Bureau's technical and scientific programs. As a special service to subscribers each issue contains complete citations to all recent Bureau publications in both NBS and non-NBS media. Issued six times a year. Annual subscription: domestic $18; foreign $22.50. Single copy, $4.25 domestic; $5.35 foreign.

NONPERIODICALS

Monographs—Major contributions to the technical literature on various subjects related to the Bureau's scientific and technical activities.

Handbooks—Recommended codes of engineering and industrial practice (including safety codes) developed in cooperation with interested industries, professional organizations, and regulatory bodies.

Special Publications—Include proceedings of conferences sponsored by NBS, NBS annual reports, and other special publications appropriate to this grouping such as wall charts, pocket cards, and bibliographies.

Applied Mathematics Series—Mathematical tables, manuals, and studies of special interest to physicists, engineers, chemists, biologists, mathematicians, computer programmers, and others engaged in scientific and technical work.

National Standard Reference Data Series—Provides quantitative data on the physical and chemical properties of materials, compiled from the world's literature and critically evaluated. Developed under a worldwide program coordinated by NBS under the authority of the National Standard Data Act (Public Law 90-396).

NOTE: The principal publication outlet for the foregoing data is the Journal of Physical and Chemical Reference Data (JPCRD) published quarterly for NBS by the American Chemical Society (ACS) and the American Institute of Physics (AIP). Subscriptions, reprints, and supplements available from ACS, 1155 Sixteenth St., NW, Washington, DC 20056.

Building Science Series—Disseminates technical information developed at the Bureau on building materials, components, systems, and whole structures. The series presents research results, test methods, and performance criteria related to the structural and environmental functions and the durability and safety characteristics of building elements and systems.

Technical Notes—Studies or reports which are complete in themselves but restrictive in their treatment of a subject. Analogous to monographs but not so comprehensive in scope or definitive in treatment of the subject area. Often serve as a vehicle for final reports of work performed at NBS under the sponsorship of other government agencies.

Voluntary Product Standards—Developed under procedures published by the Department of Commerce in Part 10, Title 15, of the Code of Federal Regulations. The standards establish nationally recognized requirements for products, and provide all concerned interests with a basis for common understanding of the characteristics of the products. NBS administers this program as a supplement to the activities of the private sector standardizing organizations.

Consumer Information Series—Practical information, based on NBS research and experience, covering areas of interest to the consumer. Easily understandable language and illustrations provide useful background knowledge for shopping in today's technological marketplace.

Order the **above** *NBS publications from: Superintendent of Documents, Government Printing Office, Washington, DC 20402.*

Order the **following** *NBS publications—FIPS and NBSIR's—from the National Technical Information Services, Springfield, VA 22161.*

Federal Information Processing Standards Publications (FIPS PUB)—Publications in this series collectively constitute the Federal Information Processing Standards Register. The Register serves as the official source of information in the Federal Government regarding standards issued by NBS pursuant to the Federal Property and Administrative Services Act of 1949 as amended, Public Law 89-306 (79 Stat. 1127), and as implemented by Executive Order 11717 (38 FR 12315, dated May 11, 1973) and Part 6 of Title 15 CFR (Code of Federal Regulations).

NBS Interagency Reports (NBSIR)—A special series of interim or final reports on work performed by NBS for outside sponsors (both government and non-government). In general, initial distribution is handled by the sponsor; public distribution is by the National Technical Information Services, Springfield, VA 22161, in paper copy or microfiche form.