



National  
Voluntary  
Laboratory  
Accreditation  
Program

# 1999 Directory

**NIST** Special Publication 810,  
1999 edition

U.S. Department of Commerce  
Technology Administration  
National Institute of Standards  
and Technology

QC  
100  
.U57  
NO.810  
1999



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Institute of Standards and Technology**  
Gaithersburg, Maryland 20899-0001

Dear Colleague:

NVLAP has made tremendous strides in achieving its goal to be recognized nationally and internationally as a "world-class" laboratory accreditation organization. After in-depth evaluations conducted of the NVLAP operations by representatives of the Asia Pacific Laboratory Accreditation Cooperation (APLAC), NVLAP signed the APLAC Mutual Recognition Arrangement (MRA) in Tokyo in November 1997. Other signatories to the MRA included accrediting bodies from Australia (NATA), New Zealand (IANZ), Hong Kong (HOKLAS), Singapore (SAC-SINGLAS), and Taiwan (CNLA). Since that time, NVLAP personnel have participated as members of multinational teams that have evaluated the accrediting bodies in Japan (JAB, JNLA) and Korea (KOLAS), and those bodies have since been added to the MRA. This has implications for reducing technical barriers to trade among the MRA partners since the signatories recognize the test reports and calibration certificates issued by their accredited laboratories as being technically equivalent.

NVLAP received the final assessment from the European Cooperation for Accreditation (EA) in September 1998. As of the publication of this Directory, we have responded to the EA evaluation report and are awaiting a favorable decision as to the admission of NVLAP to the EA recognition agreement. Like the APLAC MRA, the EA agreement will open up trade avenues and reduce technical barriers to trade by promoting the recognition and acceptance of accredited laboratories' certificates and reports.

NVLAP continues to work within the umbrella of the North American Free Trade Agreement (NAFTA) with Canada and Mexico to reach a point of mutual recognition between the calibration laboratory accreditation bodies in each country. This is being done under a Memorandum of Understanding between the national measurement laboratories and their closely affiliated calibration laboratory accreditation bodies, which established the North American Calibration Cooperation (NACC). NACC meets regularly to discuss recognition issues, to share quality documentation, and to plan cross-border interlaboratory comparisons (ILCs) involving samplings of calibration laboratories in each country. The first ILC in resistance is nearing completion with more planned this year in mass, length, temperature, and electrical measurements.

NVLAP is working towards continuous process improvement in the accreditation programs that it offers to its constituency of over eight hundred testing and calibration laboratories. We look forward to working with our old friends and new ones in the coming year. Please let us know how we are serving you. We factor all comments, good and bad, into our process in an attempt to maintain good customer relations and to improve our services wherever possible.

Sincerely,

James L. Cigler, Chief  
Laboratory Accreditation Program

NIST Special Publication 810,  
1999 edition

**National  
Voluntary  
Laboratory  
Accreditation  
Program**

**1999  
Directory**

Vanda R. White, Editor

March 1999

Supersedes SP 810, 1998 edition



**U.S. Department of Commerce**  
William M. Daley, Secretary

Technology Administration  
Gary R. Bachula, Acting Under Secretary for  
Technology

National Institute of Standards and Technology  
Raymond G. Kammer, Director

National Institute of Standards and Technology  
Special Publication 810  
Supersedes SP 810, 1998 edition  
364 pages (March 1999)  
CODEN: NSPUE2

U.S. GOVERNMENT PRINTING OFFICE  
WASHINGTON: 1999

For sale by the Superintendent of Documents  
U.S. Government Printing Office  
Washington, DC 20402-9325

#### NVLAP AND THE NVLAP LOGO

The term NVLAP and the NVLAP logo are Federally registered trademarks of the National Institute of Standards and Technology and the Federal Government, who retain exclusive rights therein. Permission to use the term and/or the logo is granted to NVLAP-accredited laboratories for the limited purposes of announcing their accredited status, and for use on reports that describe only testing and calibration within the scope of accreditation. NIST reserves the right to control the quality of the use of the term NVLAP and of the logo itself.



## INTRODUCTION

The laboratories listed in this Directory have been found to be competent to perform certain tests or calibrations as specified. These laboratories are allowed to use the NVLAP logo on their test or calibration certificates or reports, which implies that the processes used to achieve the tests or calibrations have been evaluated by NVLAP as being technically adequate when performed under the conditions specified in the laboratories' quality manuals and associated documentation. Further, NVLAP certifies that the laboratories have demonstrated traceability of their tests or calibrations to national standards at the appropriate levels of uncertainty for which the laboratories have been accredited.

As a prospective customer of the laboratories listed in this Directory, you should be aware that the laboratories are obligated to inform you, before the fact, whenever a test or a calibration service which you have requested is not covered by the NVLAP accreditation (NIST Handbook 150, Section 285.33(k)(8)). When contracting for the test or calibration service, you have the right to specify whether or not you desire a NVLAP-accredited test or calibration. Provision of a non-NVLAP-accredited test or calibration shall not be accompanied by the use of the NVLAP logo on the certificate or report, and NVLAP does not endorse any claims made regarding traceability and uncertainty of the measurements performed.

In addition, if a laboratory performs a combination of tests or calibrations, some of which have been accredited by NVLAP and some of which have not, the laboratory is bound by the provisions of NIST Handbook 150 to clearly identify the tests or calibrations covered by NVLAP accreditation and those not accredited by NVLAP on the test or calibration certificate or report.

Current information on the accreditation status of a laboratory can be obtained by contacting NVLAP as follows:

- (1) Address: Chief, Laboratory Accreditation Program  
National Institute of Standards and Technology  
100 Bureau Drive, Stop 2140  
Gaithersburg, MD 20899-2140;
- (2) Phone: (301) 975-4016;
- (3) Fax: (301) 926-2884; or
- (4) E-mail: [nvlap@nist.gov](mailto:nvlap@nist.gov).

NVLAP also maintains a directory of accredited laboratories on the Internet, which is updated quarterly. The URL for NVLAP's home page is <http://ts.nist.gov/nvlap>.



# CONTENTS

	Page
INTRODUCTION . . . . .	iii
PROGRAM SUMMARY . . . . .	1
LABORATORY ACCREDITATION SUMMARY . . . . .	6
HOW TO USE THIS DIRECTORY . . . . .	7
INDEX A. LISTING BY LABORATORY NAME . . . . .	A1
INDEX B. LISTING BY FIELD OF ACCREDITATION . . . . .	B1
CALIBRATION LABORATORIES GROUP . . . . .	B3
Dimensional . . . . .	B3
Electromagnetics - DC/Low Frequency . . . . .	B3
Electromagnetics - RF/Microwave . . . . .	B3
Ionizing Radiation . . . . .	B3
Mechanical . . . . .	B3
Optical Radiation . . . . .	B4
Thermodynamic . . . . .	B4
Time and Frequency . . . . .	B4
COMPUTER/ELECTRONICS GROUP . . . . .	B4
Cryptographic Modules Testing . . . . .	B4
GOSIP . . . . .	B4
Federal Communications Commission (FCC) Methods . . . . .	B4
MIL-STD-462 Test Methods . . . . .	B8
DOSIMETRY GROUP . . . . .	B8
Ionizing Radiation Dosimetry . . . . .	B8
ENVIRONMENTAL GROUP . . . . .	B10
Asbestos Fiber Analysis (PLM Test Method) . . . . .	B10
Asbestos Fiber Analysis (TEM Test Method) . . . . .	B16
FASTENERS AND METALS GROUP . . . . .	B18
PRODUCT TESTING GROUP . . . . .	B20
Acoustical Testing Services . . . . .	B20
Carpet and Carpet Cushion . . . . .	B21
Commercial Products Testing . . . . .	B21
Construction Materials Testing . . . . .	B21
Efficiency of Electric Motors . . . . .	B22
Energy Efficient Lighting Products . . . . .	B22
Thermal Insulation Materials . . . . .	B22
Wood Based Products . . . . .	B23
INDEX C. LISTING BY STATE/COUNTRY . . . . .	C1
INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE . . . . .	D1
INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE . . . . .	E1



## PROGRAM SUMMARY

The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of a series of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are published in the Code of Federal Regulations (Title 15, Part 285) as a part of the NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002. Accreditation is granted following successful completion of a process which includes submission of an application and payment of fees by the laboratory, an on-site assessment, resolution of any deficiencies identified during the on-site assessment, participation in proficiency testing, and technical evaluation. The accreditation is formalized through issuance of a Certificate of Accreditation and Scope of Accreditation (fig. 1) and publicized by announcement in various government and private media.

NVLAP accreditation is available to commercial laboratories; manufacturers' in-house laboratories; university laboratories; and federal, state, and local government laboratories. Foreign-based laboratories may also be accredited if they meet the same requirements as domestic laboratories and pay any additional fees required for travel expenses.

NVLAP provides an unbiased third party evaluation and recognition of performance, as well as expert technical guidance to upgrade laboratory performance. NVLAP accreditation signifies that a laboratory has demonstrated that it operates in accordance with NVLAP requirements in the following areas: accommodation and environment; calibration and test methods; certificates and reports; complaints; equipment and reference materials; handling of calibration and test items; measurement traceability and calibration; organization and management; outside support services and supplies; personnel; quality system, audit and review; records; and subcontracting. NVLAP accreditation does not imply any guarantee (certification) of laboratory performance or test/calibration data; it is solely a finding of laboratory competence. A laboratory may cite its accredited status and use the NVLAP logo on reports, stationery, and in business and trade publications provided that this use does not imply product certification.

This Directory of laboratories is published annually and lists the name, address, contact person, phone and fax numbers, e-mail and URL addresses (if available), accreditation renewal date, and scope of accreditation for each laboratory. An updated listing of laboratories is published quarterly on NVLAP's home page on the Internet: <http://ts.nist.gov/nvlap>.

### *Accreditation Renewal Date*

A laboratory accreditation is valid for one year and commences on one of four dates: January 1, April 1, July 1, or October 1; an accreditation will terminate after one year unless renewed by the laboratory. Users of this Directory who are considering selection of accredited laboratories should be aware of the renewal date and verify that the laboratory has retained its accreditation at the time its services are to be provided. Verification of accreditation status can be obtained by contacting NVLAP.



### *On-Site Assessment*

Before initial accreditation, an on-site assessment of each laboratory is conducted to determine compliance with the NVLAP criteria. After accreditation is granted, an on-site assessment must be conducted every two years in order for the laboratory to maintain accreditation. An assessment is conducted by one or more NVLAP assessors selected on the basis of their expertise in the field of testing or calibration to be reviewed. They may be engineers or scientists currently active in the field, consultants, college professors or retired persons. Their services are generally contracted as required.

Assessors use checklists provided by NVLAP so that each laboratory receives an assessment comparable to that received by others. However, assessors have some latitude to make judgments about a laboratory's compliance with the NVLAP criteria.

An assessment normally takes one to five days depending on the extent of the laboratory's application. Every effort is made to conduct an assessment with as little disruption as possible to the normal operations of the laboratory. During the assessment, the assessor carries out the following functions:

- meets with management and supervisory personnel responsible for the laboratory's activities to review the assessment process and to set the assessment agenda;
- examines the laboratory's quality assurance system, selects and traces the history of one or more samples from receipt to final issuance of reports, conducts a thorough review of the laboratory's quality manual, evaluates the training program, examines notebooks or records pertaining to the samples, checks sample identification and tracking procedures, determines whether the appropriate environmental conditions are maintained, and examines copies of completed reports;
- reviews records of periodic internal audits, use of check samples or participation in round-robin testing or other similar programs, personnel records including resumes and job descriptions of key personnel, competency evaluations for all staff members who routinely perform the testing or calibration for which accreditation is sought, calibration or verification records for apparatus used, reports, and sample control records;
- observes demonstrations of laboratory techniques and discusses them with the technical personnel to assure their understanding of the procedures; and
- examines major equipment, apparatus, and facilities.

At the conclusion of the assessment, the assessor will conduct an exit briefing to discuss observations and any deficiencies with responsible laboratory staff. A written assessment report will be left with the laboratory, and a copy forwarded to NVLAP.

If the on-site inspection reveals deficiencies that pertain to NVLAP requirements, the laboratory must respond in writing to NVLAP within 30 days of such notification. The response must provide documentation, signed by the Authorized Representative, that the specified deficiencies have either been corrected or include a plan of action to make corrections.

### ***Monitoring Visits***

Monitoring visits may be conducted at any time during the accreditation period for cause or on a random selection basis. These visits serve to verify reported changes in the laboratory's personnel, facilities, or operations, or to explore possible reasons for poor performance in proficiency testing. The scope of a monitoring visit may range from checking a few designated items to a complete review.

### ***Proficiency Testing***

Proficiency testing is an integral part of the NVLAP accreditation process. On-site demonstration of appropriate facilities, equipment, personnel, etc., is essential, but may not be sufficient for the continuing evaluation of laboratory competence. The production of test/calibration data using special proficiency testing samples or artifacts provides NVLAP with a means to determine the overall competence of the laboratory. Information obtained from proficiency testing helps to identify problems in a laboratory. When problems are found, NVLAP works with the laboratory staff to solve them.

Most fields of accreditation have proficiency testing requirements. Data submitted by the laboratories in response to specific NVLAP requirements are analyzed and reports of the results are made known to the participants. Summary results are available upon request to other interested parties; e.g., professional societies and standards writing bodies. The identity and performance of individual laboratories are kept confidential.

Satisfactory participation is based on specially tailored exercises designed to evaluate the ability of the laboratory to produce the services for which it is accredited. Some methods define pass/fail criteria; in other cases, individual laboratory results must fall within statistically acceptable limits of overall group performance. In a number of programs, NVLAP requires satisfactory participation in proficiency testing as a condition of initial, as well as continuing, accreditation.

### ***Technical Evaluation***

A final technical evaluation is performed by a NVLAP review panel. The panel's recommendations regarding accreditation are based on:

- information provided on the application;
- results of quality system documentation review;
- on-site assessment reports;
- actions taken by the laboratory to correct deficiencies;
- results of proficiency testing; and
- information from any monitoring visits of the laboratory.

If the technical evaluation reveals additional deficiencies, written notification of the deficiencies will be sent to the laboratory. The laboratory must respond as specified in the previous section, *On-Site Assessment*. Clarification of some issues may be requested by telephone. All deficiencies must be resolved before accreditation can be granted.

### *Accreditation Actions*

After the technical evaluation has been completed and all financial and administrative requirements have been satisfied, NVLAP takes one of the following accreditation actions:

*Accreditation* The laboratory is issued a Certificate of Accreditation and a Scope of Accreditation.

*Denial* The laboratory is notified of a proposal to deny accreditation and the reason(s).

If an accredited laboratory is found to be out of compliance with the NVLAP criteria, NVLAP may take one of the following actions:

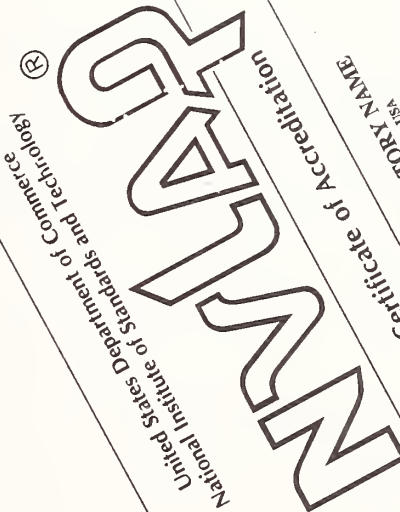
*Suspension* Suspension is a temporary removal of the accredited status of a laboratory when it is found to be out of compliance with the terms of its accreditation. The laboratory will be notified of the reasons for and conditions of the suspension and the action(s) that the laboratory must take to have the accreditation reinstated.

Reasons for suspension include: loss of key personnel, loss of major equipment, damage to laboratory by fire, changing laboratory location, proficiency test failure.

*Revocation* Revocation is the removal of the accredited status of a laboratory when it is found to have violated the terms of its accreditation. The laboratory will be notified of the reasons for proposed revocation and the procedure for appealing such a decision. If accreditation is revoked, the laboratory may be given the option of voluntarily terminating the accreditation. A laboratory whose accreditation has been revoked must return its Certificate of Accreditation and cease use of the NVLAP logo on any of its reports, correspondence, or advertising.


Reasons for revocation include: obtaining accreditation through fraud, refusal to resolve deficiencies, no longer providing the type of calibration or testing service for which accreditation was issued.

If denial or revocation has been proposed, the laboratory may appeal the decision to the Director of NIST. If an appeal is not requested, the action becomes final upon the expiration of the 30-day period following receipt of the notification.

  
**NVLAP**  
 National Institute of Standards and Technology  
 Department of Commerce  
 United States of America

**Certificate of Accreditation**  
 LABORATORY NAME  
 ANYTOWN, USA

ISO/IEC GUIDE 25:1990  
 ISO 9002:1987

  
 DEPARTMENT OF COMMERCE  
 UNITED STATES OF AMERICA

**Scope of Accreditation**  
 ELECTROMAGNETIC COMPATIBILITY AND  
 TELECOMMUNICATIONS


LABORATORY NAME  
 ANYTOWN, USA 00000-0000  
 Mr. John Doe  
 Phone: 000-000-0000 Fax: XX-XX-XXXX

NVLAP LAB CODE 100000-0  
 Page 1 of 1

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with  
 criteria established in Title 15, Part 265 Code of Federal Regulations, 3002. These criteria encompass the requirements of  
 calibration or test results, and the relevant requirements of ISO 9002. Specific services, listed on the scope of accreditation for:  
 NVLAP LAB CODE: 100000-0

Designation FCC Method - 47 CFR Part 15 - Digital Devices Conducted Emissions, Power Lines, 450 KHz to 30 MHz Radiated Emissions Mutual Equipment Network Protection Standards Method - 47 CFR Part 68 - Analog and Digital Par. c, d, e, f) Environmental simulation; stage current limitations; various voltage limitations; signal power limitations; 310 Longitudinal balance limitations; 68.312 On-hook impedance limitations; 68.314 Billing protection 68.316 Hearing aid compatibility; technical standards 68.302 Environmental simulation (Par. a, b)	101b 12701c
--	----------------

December 31, 19--  
 Effective through

For the National Institute of Standards and Technology  


NVLAP OTS (11-95)

Figure 1. NVLAP Certificate and Scope of Accreditation (sample)



## LABORATORY ACCREDITATION SUMMARY

The following table summarizes laboratory accreditations by field of testing or calibration as of the date this Directory was prepared for publication. Since some laboratories are accredited in more than one field, the total number of laboratories listed by field of accreditation (see Index B) is greater than the number of laboratories in the system (see Index A).

<i><b>PROGRAM GROUP/Field of Accreditation</b></i>	<i><b>Number of Accreditations</b></i>
--	--

### **CALIBRATION LABORATORIES GROUP**

Dimensional	10
Electromagnetics - DC/Low Frequency	8
Electromagnetics - RF/Microwave	4
Ionizing Radiation	5
Mechanical	10
Optical Radiation	1
Thermodynamics	7
Time and Frequency	7

### **COMPUTER/ELECTRONICS GROUP**

Cryptographic Modules Testing	3
Federal Communications Commission (FCC) Methods	155
GOSIP	2
MIL-STD-462 Test Methods	16

<b>DOSIMETRY GROUP/Ionizing Radiation Dosimetry</b>	44
---	----

<b>ENVIRONMENTAL GROUP/Asbestos Fiber Analysis:</b>		311
	PLM test method	81
	TEM test method	

<b>FASTENERS AND METALS GROUP</b>	90
-----------------------------------	----

### **PRODUCT TESTING GROUP**

Acoustical Testing Services	20
Carpet and Carpet Cushion	13
Commercial Products Testing	7
(Paints, Paper, Plastics, Plumbing, Roofing, Seals/Sealants)	
Construction Materials Testing	16
Efficiency of Electric Motors	7
Energy Efficient Lighting Products	10
Thermal Insulation Materials	18
Wood Based Products	5

<b>TOTAL ACCREDITATIONS</b>	850
-----------------------------	-----



## HOW TO USE THIS DIRECTORY

The *1999 Directory* lists laboratories accredited by NVLAP. It consists of five indexes which are cross-referenced by NVLAP Lab Code, a unique identifier assigned to each laboratory; e.g., 100000-0. The Directory enables the user to locate name, address, telephone and accreditation information about laboratories of interest. The user should contact the laboratories directly to get information beyond that provided here.

**INDEX A, LISTING BY LABORATORY NAME**, lists all laboratories in alphabetical order by laboratory name. The name of each laboratory is listed as it appears on its application for accreditation.

**INDEX B, LISTING BY FIELD OF ACCREDITATION**, lists all laboratories in alphabetical order by laboratory name within field of accreditation. The index is organized by PROGRAM GROUPS, which are groups of Laboratory Accreditation Programs (LAPs) assembled in categories of technical fields for efficiency in management (see page 6). Listed under each PROGRAM GROUP are the technical fields of accreditation managed within that GROUP. Laboratories accredited in more than one field will have more than one listing in this index.

**INDEX C, LISTING BY STATE/COUNTRY**, lists all laboratories in alphabetical order by laboratory name within state. The states are designated by the standard two-letter postal abbreviations. Laboratories located outside of the United States are listed at the end of the index. Index C also indicates the field of accreditation for each laboratory.

**INDEX D, LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE**, lists all testing laboratories in numerical order by NVLAP Lab Code. There is only one listing per Lab Code in Index D.

**INDEX E, LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE**, lists all calibration laboratories in numerical order by NVLAP Lab Code. There is only one listing per Lab Code in Index E.

### INFORMATION CONTAINED IN INDEXES D AND E

Each laboratory receives a Certificate of Accreditation and a Scope of Accreditation when accreditation is granted or renewed. The Scope of Accreditation details the methods and services for which accreditation has been granted to a laboratory. Indexes D and E present a condensation of the Scope(s) of Accreditation for testing and calibration laboratories, respectively.

The following information is presented for each laboratory listed in Index D or Index E:

- (a) NVLAP Lab Code;
- (b) Laboratory name and address;
- (c) Authorized representative (contact);
- (d) Phone number;
- (e) Fax number;
- (f) E-mail address (if available);
- (g) URL (web site) address (if available);
- (h) Field of accreditation;
- (i) Accreditation expiration date; and
- (j) Scope of accreditation.

## HOW TO LOCATE SPECIFIC INFORMATION

### *For a laboratory whose name is known*

Refer to Index A and note the laboratory's NVLAP Lab Code. Look up the Lab Code in Index D (if testing) or Index E (if calibration) to obtain specific information about the laboratory; e.g., address, phone number, Scope of Accreditation, etc.

### *For a laboratory in a particular geographic area*

Determine the states (or country) included in the geographic area of interest. Refer to Index C to obtain the NVLAP Lab Code of a laboratory within the selected geographic area for a given field of accreditation. Look up the Lab Code in Index D (if testing) or Index E (if calibration) to obtain specific information about the laboratory; e.g., address, phone number, Scope of Accreditation, etc.

### *For a laboratory in a particular field of accreditation*

Choose the field of accreditation from the list on page 6. Refer to Index B and note the name and Lab Code of each laboratory of interest. Index B is organized by field of accreditation within major program group. Look up the Lab Code in Index D (if testing) or Index E (if calibration) to obtain specific information about the laboratory; e.g., address, phone number, Scope of Accreditation, etc.

## SPECIAL NOTE ABOUT LABORATORIES ACCREDITED IN ASBESTOS FIBER ANALYSIS

The test method designations for Bulk Asbestos Analysis (PLM) and Airborne Asbestos Analysis (TEM) are as follows:

### *NVLAP Code*

### *Program Title/Test Method Designation*

18/A01

BULK ASBESTOS ANALYSIS (PLM)

U.S. Environmental Protection Agency (EPA) "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" as found in 40 Code of Federal Regulations (CFR), Part 763, Subpart F, Appendix A, or the current U.S. EPA method for the analysis of asbestos in building material.

18/A02

AIRBORNE ASBESTOS ANALYSIS (TEM)

U.S. Environmental Protection Agency (EPA) "Interim Transmission Electron Microscopy Analytical Methods—Mandatory and Nonmandatory—and Mandatory Section to Determine Completion of Response Actions" as found in 40 Code of Federal Regulations (CFR), Part 763, Subpart E, Appendix A.

TABLE X

A

TABLE OF  
CONTENTS  
PAGE



# INDEX A. LISTING BY LABORATORY NAME

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
<b>3</b>			
3M Product Safety EMC Laboratory	200033-0	St. Paul	MN
3V Fasteners Co. Inc. Testing Laboratory	200264-0	Corona	CA
<b>A</b>			
A & B Environmental Services, Inc.	101793-0	Houston	TX
A T Labs	101062-0	Youngstown	OH
A-Pex International Co., Ltd. Yokowa Laboratory	200109-0	Mie-ken	JAPAN
A.E.S.L.	200303-0	Tempe	AZ
A.R.C. Laboratories, Inc.	101832-0	Grand Forks	ND
AAC Trinity, Inc.	101168-0	Farmington Hills	MI
ABM Environmental Consultants, Inc.	102015-0	Long Island City	NY
Accredited Environmental Technologies, Inc.	101051-0	Media	PA
Accredited Environmental Technologies, Inc.	200236-0	Leland	NC
ACM Environmental, Inc.	101977-0	South Bend	IN
Acominas - Analysis and Testing Laboratory	200185-0	Ouro Branco MG	BRAZIL
Acoustic Systems Acoustical Research Facility	100286-0	Austin	TX
Acton Environmental Testing, dba National Technical Systems	100347-0	Boxborough	MA
Advance Data Technology Corporation	200102-0	Taipei Hsien	TAIWAN
Advanced Energy, Industrial Energy Laboratory	200081-0	Raleigh	NC
Advanced Industrial Hygiene Services, Inc.	101006-0	Miami	FL
Aearo Company, E-A-RCAL Acoustical Laboratory	100374-0	Indianapolis	IN
Aerospace NYLOK - a subsidiary of the NYLOK Fastener Corporation	200271-0	Hawthorne	NJ
Aerospace Rivet Manufacturers Corp.	200266-0	Santa Fe Springs	CA
AGRA Earth and Environmental, Inc. - Env. Chemistry Laboratory	200357-0	Portland	OR
AGX, Inc.	101578-0	Cranberry Township	PA
AHD	200129-0	Dowagiac	MI
Aires Consulting Group, Inc.	101014-0	Batavia	IL
AIResearch, Inc.	101868-0	Wauwatosa	WI
Airtek Environmental Corp.	102011-0	New York	NY
Akzo Kashima Ltd. Kakegawa EMC Test Site	100290-2	Shizuoka	JAPAN
Akzo Kashima Ltd., Kashima EMC Site	100290-0	Ibaraki	JAPAN
Akzo Kashima Ltd., Kawasaki Technical Center	200300-0	Kawasaki	JAPAN
Akzo Kashima Ltd., Matsuda EMC Test Site	100290-4	Kanagawa	JAPAN
Akzo Kashima Ltd., Nagano EMC Test Site	100290-3	Nagano	JAPAN
Akzo Kashima Ltd., Tochigi EMC Test Site	100290-5	Tochigi	JAPAN
ALAC	200323-0	Bronx	NY
Allegheny Asbestos Analysis	101704-0	Carnegie	PA
AlliedSignal FM&T Metrology	200108-0	Kansas City	MO
Alloy & Stainless Testing	200353-0	Virginia Beach	VA
Alpine Consulting, Inc.	102089-0	Colorado Springs	CO
AMA Analytical Services, Inc.	101143-0	Lanham	MD
Ambient Labs, Inc.	101618-0	New York	NY
American Asbestos Laboratories, Inc.	101775-0	Miami	FL
American Carpet Laboratories, Inc.	100139-0	Ringgold	GA
American Electric Power, Environmental	102102-0	Columbus	OH



INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Laboratory			
American Medical Laboratories, Inc.	101136-0	Chantilly	VA
American Testing Laboratories, Inc.	100146-0	Lancaster	PA
Analab, LLC	200260-0	Sterling	PA
Analytica Solutions, Inc.	101086-0	Broomfield	CO
Analytical Environmental Services International, Inc.	200051-0	Hato Rey	PR
Analytical Environmental Services, Inc.	102033-0	Atlanta	GA
Analytical Industries, Inc.	101855-0	Paducah	KY
Analytical Labs San Francisco, Inc.	101909-0	San Francisco	CA
Analyticalab	101727-0	Willow Springs	IL
Aoyama Fastener Laboratory	200213-0	Niwa-gun, Aichi Prefecture	JAPAN
APA - The Engineered Wood Association Research Center	100423-0	Tacoma	WA
Apex Research Laboratory	102118-0	Whitmore Lake	MI
Apollo Environmental, Inc.	101871-0	Gibsonton	FL
Apple Computer, Inc., EMC Compliance Laboratory	200071-0	Cupertino	CA
Applied Environmental, Inc.	101611-0	Reston	VA
Architectural Testing Inc.	200361-0	York	PA
Arden Fasteners	200187-0	Addison	IL
Arizona Public Service Co., Palo Verde	100536-0	Tonopah	AZ
Nuclear Generating Station			
Armstrong Acoustic Labs, Armstrong World Ind., Inc. Innov. Center	100228-0	Lancaster	PA
Asakawa Screw Co., Ltd.	200197-0	Yokohama	JAPAN
Asakawa Screw Co., Ltd. Kawawa Factory	200257-0	Yokohama	JAPAN
ASBESTECH	101442-0	Carmichael	CA
Asbestos Analysis and Information Service, Inc.	101261-0	Four Oaks	NC
Asbestos Analytical	101771-0	Tucson	AZ
Asbestos Consulting & Testing (ACT)	101649-0	Lenexa	KS
Asbestos TEM Laboratories, Inc.	101891-0	Berkeley	CA
Asbestos TEM Laboratories, Inc.	200104-0	Sparks	NV
ASC geoscience, inc.	200316-0	Lakeland	FL
Assaigai Analytical Laboratories, Inc.	101457-0	Albuquerque	NM
AST Research, Inc. EMC Lab.	200135-0	Irvine	CA
ATC Associates Inc.	102071-0	Cincinnati	OH
ATC Associates Inc.	200250-0	Columbia	MD
ATC Associates Inc.	200290-0	Dallas	TX
ATC Associates, Inc.	101187-0	New York	NY
ATC Environmental, Inc.	102031-0	Englewood	CO
Athenica Environmental Services, Inc.	101958-0	Long Island City	NY
Atomic Energy Industrial Laboratory of the Southwest, Inc.	100556-0	Houston	TX
Aurora Consolidated Laboratories	101661-0	West Allis	WI
Austin Analytical Laboratory	200014-0	Austin	TX
<b>B</b>			
Baltimore Gas & Electric Company	100501-0	Lusby	MD
BarTech Inc. - Chemical Laboratory	200148-0	Johnstown	PA
Batta Laboratories, Inc.	101032-0	Newark	DE
Battelle - Pacific Northwest National Laboratory	200216-0	Richland	WA
Bay Area Air Quality Management District	102090-0	San Francisco	CA

# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Bay Area Compliance Laboratory, Corp.	200167-0	Sunnyvale	CA
BCAG Fastener Quality Test Lab Everett Site	200292-0	Seattle	WA
Beaulieu of America - Carpet Testing Lab	100190-0	Dalton	GA
Belgo-Mineira Chemical Laboratory	200196-0	35.930-900 Joao Monlevade	BRAZIL
Beling Consultants, Inc.	101356-0	Moline	IL
Bell Laboratories, Division Lucent Technologies, Inc.	101965-0	Murray Hill	NJ
Bentley Testing Laboratory	100288-0	City of Industry	CA
Binder Metal Products, Inc.	200321-0	Gardena	CA
Bodycote Industrial Testing, Inc.	101072-0	St. Louis	MO
Braun Intertec Corporation	101234-0	Minneapolis	MN

## C

Cabletron Systems, Inc.	200121-0	Rochester	NH
California Screw Products	200183-0	Paramount	CA
CAM Environmental Services, Inc.	200240-0	Pasadena	TX
CAMCO Lab	101803-0	Fontana	CA
Canadian Standards Association	100322-0	Etobicoke Ontario	CANADA
Cape Environmental Management, Inc.	102111-0	Atlanta	GA
Carnow, Conibear & Associates Ltd.	101039-0	Chicago	IL
Carolina Environmental, Inc.	101768-0	Cary	NC
Carolina Power & Light Company, Harris Energy & Enviro. Center	100517-0	New Hill	NC
Casey Products, Inc.	200278-0	Lisle	IL
CBS Fasteners, Inc.	200253-0	Anaheim	CA
CDRH X-Ray Calibration Laboratory	105018-0	Rockville	MD
Celestica International Inc.	200055-0	North York, Ontario	CANADA
Celotex Technical Center	100417-0	St. Petersburg	FL
Chatfield Technical Consulting Limited	101103-0	Mississauga Ontario	CANADA
Chemitox EMC Research, Inc.	200120-0	Yamanashi-ken	JAPAN
ChemScope, Inc.	101061-0	North Haven	CT
CHEMTEx Environmental Laboratory, Inc.	200025-0	Port Arthur	TX
Chomerics Test Services (CTS)	100296-0	Woburn	MA
Chopra-Lee, Inc.	200095-0	Grand Island	NY
Cisco Systems, Inc.	200114-0	San Jose	CA
City of Los Angeles Department of Water and Power	101111-0	Los Angeles	CA
City of San Jose, Materials Testing Laboratory	100325-0	San Jose	CA
Clark Seif Clark, Inc.	200324-0	Chatsworth	CA
Clayton Environmental Consultants	101106-0	Seattle	WA
Clayton Laboratory Services	101125-0	Kennesaw	GA
Clinton Power Station	100570-0	Clinton	IL
Combustion Engineering, Inc.	100563-0	Windsor	CT
ComEd - TLD Processing Lab - CTEAM Facility	100541-0	Bolingbrook	IL
Commercial Testing Company	100120-0	Dalton	GA
Communication Certification Laboratory	100272-0	Salt Lake City	UT
Compaq Computer Corp. EMC Test Facility	200078-0	Colorado Springs	CO
Compaq Computer Corp. Emissions Control Lab	200058-0	Houston	TX
Compaq Corporate Metrology	200154-0	Houston	TX
Compatible Electronics, Inc.	200063-0	Agoura	CA
Compliance Eng. Svces, Inc., Compliance Certification Services	200065-0	Sunnyvale	CA

# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Compliance Engineering Services, Inc. - Taiwan	200064-0	Sunnyvale	CA
Compliance Test Laboratories, Inc.	200237-0	Liberty	SC
Composite Panel Association (CPA)	100418-0	Gaithersburg	MD
Comprehensive Health Services-Environmental Health PLM Laboratory	101759-0	Kennedy Space Center	FL
Con Edison - ChemLab	101558-0	Long Island City	NY
Con Edison, Indian Point	100538-0	Buchanan	NY
Concord Analysis, Inc.	101884-0	Chatsworth	CA
Continental Envirotech, Inc.	200080-0	Mesa	AZ
Control Data Accredited OSI Test Center	100354-0	Arden Hills	MN
Converse Consultants MR, Inc.	102091-0	Reno	NV
Cooper Lighting - Metalux Research Laboratories	200050-0	Americus	GA
Cosmos Corporation	200151-0	Watarai-gun Mie	JAPAN
Covino Environmental Associates, Inc.	101781-0	Woburn	MA
Craig Environmental Services, Inc.	200289-0	Mays Landing	NJ
Crisp Analytical Laboratory	200349-0	Carrollton	TX
Criterion Laboratories, Inc.	102046-0	Bensalem	PA
Criterion Technology	100396-0	Rollinsville	CO
Cryptographic Equipment Assessment Lab. (CEAL)	200002-0	McLean	VA
CT&E Environmental Services Inc.	200067-0	San Diego	CA
CTL Environmental Services	101216-0	Harbor City	CA
Curtis-Straus LLC	200057-0	Littleton	MA

## D

D.L.S. Electronic Systems, Inc.	100276-0	Wheeling	IL
D/L Laboratories	100252-0	New York	NY
Dames & Moore, Inc.	101433-0	Salem	NH
Data General Corporation	100339-0	Westboro	MA
DataChem Laboratories	101917-0	Cincinnati	OH
Davis & Floyd, Inc.	101410-0	Greenwood	SC
Daybrite Lighting (Genlyte Thomas Group) Photometric Laboratory	200016-0	Tupelo	MS
DCM Science Laboratory, Inc.	101258-0	Wheat Ridge	CO
Dell Regulatory Test Laboratories	200052-0	Round Rock	TX
Denver Instrument Co. Weight Lab	200106-0	Arvada	CO
Department of Environmental Health Industrial Hygiene Laboratory	101530-0	San Diego	CA
Design for Health, Inc.	101864-0	San Diego	CA
Detroit Edison, Fermi 2 Dosimetry Laboratory	100529-0	Newport	MI
Dexter Fastener Technologies, Inc.	200144-0	Dexter	MI
DHMH-Air Quality Laboratory	101523-0	Baltimore	MD
Digital Regulatory Engineering and Testing Services	100413-0	Marlboro	MA
Diviersified T.E.S.T. Technologies, Inc.	200340-0	Groton	NY
Dixon Information Inc.	101012-0	South Salt Lake	UT
DLZ Laboratories, Inc.	101060-0	Columbus	OH
Dodge-Regupol, Inc. Laboratory	200030-0	Lancaster	PA
Dolphin Environmental Consultants	102086-0	Stafford	TX
DOMUS ITSL, a division of LGS Group, Incorporated	200017-0	Ottawa Ontario	CANADA

**INDEX A. LISTING BY LABORATORY NAME - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
Dove Environmental Corporation	102053-0	Miami	FL
Dow Chemical N. America Foam Products Research, Prod. Perf. Lab.	100103-0	Midland	MI
Duke Engineering and Services Environmental Laboratory	100524-0	Bolton	MA
Duke Power Company Dosimetry Laboratory	100505-0	Charlotte	NC
Duquesne Light Company, Beaver Valley Power Station	100521-0	Shippingport	PA
Durkee Testing Laboratories, Inc.	200178-0	Paramount	CA
Duro-Test Corporation	200283-0	Clifton	NJ
<b>E</b>			
E. M. Analytical, Inc.	101902-0	Dania	FL
EA Group	101019-0	Mentor	OH
EAI, Inc.	102114-0	Jersey City	NJ
Eastern Analytical Services, Inc.	101646-0	Elmsford	NY
Eastern Materials Testing Lab a division of Jaworski Geotech	100315-0	New Britain	CT
Eastman Kodak Co.-Regulatory Compliance Center-EMC Facility	200313-0	Rochester	NY
Eaton E3 Laboratory	100382-0	Southfield	MI
Eberline Dosimetry Service	100515-0	Albuquerque	NM
EcoSystems Environmental, Inc.	101162-0	Carrollton	TX
ECS/Wagner Environmental	101064-0	Eugene	OR
EEC, Inc.	101088-0	Raleigh	NC
Electric Boat Corp/A General Dynamics Co. Radiological Ctrl. Dept	100560-0	Groton	CT
Electro Magnetic Test, Inc.	200147-0	Mountain View	CA
Electro. Meas. Off., Yokohama Res. & Dev. Ctr. Murata Mfg. Co.	200263-0	Kanagawa	JAPAN
Electronic Compliance Laboratories, Inc.	200089-0	Sunnyvale	CA
Electronic Research & Service Organization/ITRI	200118-0	Hsinchu	TAIWAN
Electronics Test Centre	200282-0	Kanata, Ont.	CANADA
Electronics Testing Center, Taiwan	200133-0	Taoyuan Hsien	TAIWAN
Elite Electronic Engineering Company	100278-0	Downers Grove	IL
Elliott Laboratories, Inc.	200069-0	Sunnyvale	CA
EMC Compliance Mgmt Group, dba Turntech Scientific & Instr., Inc.	200068-0	Mountain View	CA
EMC International, Inc.	200094-0	Youngsville	NC
EMC Kashima Corporation	200070-0	Chiba-ken	JAPAN
EMCE Engineering, Inc.	200092-0	Fremont	CA
EMS Laboratories, Inc.	101218-0	Pasadena	CA
EMSL Analytical Mobile Laboratory	200344-0	Chicago	IL
EMSL Analytical, Inc.	101048-0	Westmont	NJ
EMSL Analytical, Inc.	101048-1	Atlanta	GA
EMSL Analytical, Inc.	101048-2	Piscataway	NJ
EMSL Analytical, Inc.	101048-3	San Mateo	CA
EMSL Analytical, Inc.	101048-4	Ann Arbor	MI
EMSL Analytical, Inc.	101048-9	New York	NY
EMSL Analytical, Inc.	101048-10	Carle Place	NY
EMSL Analytical, Inc.	101277-0	Fairfax	VA
EMSL Analytical, Inc.	102104-0	Greensboro	NC
EMSL Analytical, Inc.	102105-0	Warwick	RI
EMSL Analytical, Inc.	102106-0	Houston	TX



**INDEX A. LISTING BY LABORATORY NAME - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
EMSL Analytical, Inc.	200019-0	Seattle	WA
EMSL Analytical, Inc.	200034-0	Dallas	TX
EMSL Analytical, Inc.	200056-0	Williamsville	NY
EMSL Analytical, Inc.	200188-0	Indianapolis	IN
EMSL Analytical, Inc.	200204-0	N. Miami Beach	FL
EMSL Analytical, Inc.	200247-0	Charlotte	NC
EMSL Analytical, Inc.	200293-0	Beltsville	MD
EMSL Analytical, Inc.	200310-0	Carlstadt	NJ
EMSL Analytical, Inc.	200333-0	Elmsford	NY
EMSL Analytical, Inc.	200375-0	Baton Rouge	LA
ENCORP	200013-0	El Segundo	CA
Entergy Operations, Inc.	100535-0	Taft	LA
Enviro Techniques, Inc.	200024-0	Paterson	NJ
Enviro-Probe, Inc.	101222-0	Bronx	NY
EnviroHealth Technologies, Inc.	200374-0	St. Louis	MO
EnviroMed Services, Inc.	101514-0	New Haven	CT
Environmental Enterprise Group(EEG), Inc.	101587-0	Russellville	AR
Environmental Hazards Services, L.L.C.	101882-0	Richmond	VA
Environmental Health Laboratories	101506-0	Clayton	MO
Environmental Management Consultants, Inc.	101926-0	Scottsdale	AZ
Environmental Monitoring & Consulting Associates	101087-0	Somerville	NJ
Environmental Services International, Inc.	101306-0	St. Albans	WV
Environmental Testing and Monitoring Services, Inc.	200131-0	Virginia Beach	VA
Environmental Testing Laboratories, Inc.	101937-0	Farmingdale	NY
Environmental Testing, Inc.	101848-0	Middletown	DE
EnvironMETeo Services Inc.	101807-0	Waipahu	HI
Envirotest, Inc.	101595-0	Houston	TX
ERI Consulting Engineers, Inc.	101232-0	Tyler	TX
ERT Testing Services	101295-0	Highland Park	MI
ESG Laboratories	102029-0	Indianapolis	IN
EssTek Ohio, Inc.	102093-0	Middleburg Heights	OH
<b>F</b>			
Fabristeel Products Inc.	200329-0	Taylor	MI
Fairfield Testing Laboratory, Inc.	100317-0	Stamford	CT
Fairway Testing Company, Inc.	100340-0	Stony Point	NY
Fastener Innovation Technology, Inc.	200179-0	Gardena	CA
Federal Manufacturing Corp.	200279-0	Chatsworth	CA
Fiberquant, Inc.	101031-0	Phoenix	AZ
Fibertec, Inc.	101510-0	Holt	MI
Flexible Products Company	100210-0	Joliet	IL
Florida Power & Light Company	100544-0	Juno Beach	FL
Fluke Corporation Primary Standards Laboratory	105016-0	Everett	WA
Fluor Daniel Fernald, Inc., Analytical Laboratory Services	102010-0	Cincinnati	OH
Fong Preat Industrial Co., Ltd.	200288-0	Kaohsiung Hsien	TAIWAN
Forensic Analytical Specialties, Inc.	101459-0	Hayward	CA
Forensic Analytical Specialties, Inc.	101459-1	Rancho Domingues	CA
Fountain Compliance Laboratory	200101-0	Somerset	NJ
Froehling & Robertson, Inc.	102060-0	Richmond	VA
FRS Geotech, Inc.	102078-0	Denver	CO
Fuji Buhin Kogyo Kabushiki Kaisha	200203-0	Ohta Gunma	JAPAN
Fuji Component Parts USA, Inc.	200180-0	Indianapolis	IN



# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Fujitsu Evaluation Engineering Laboratory	200281-0	Numazu, Shizuoka-Pref.	JAPAN
Fujitsu General EMC Laboratory	200373-0	Kawasaki	JAPAN
Fuserashi Gunma	200173-0	Gunma-Ken	JAPAN
Fwu Kuang Enterprises Co., Ltd.	200286-0	Tainan Hsien	TAIWAN

## G

GA Environmental Services, Inc.	101996-0	Eddystone	PA
Galson Laboratories	101375-0	East Syracuse	NY
Garwood Laboratories, Inc.	200119-0	Placentia	CA
GE Industrial Systems, Renewal Services - TEMS	200029-0	Rome	NY
GE Lighting- Engineering Support - NA	100398-0	Cleveland	OH
GE Owensboro Test Laboratory	200305-0	Owensboro	KY
GEC Marconi Avionics Ltd Environmental and EMC Test Center	200304-0	Kent	UNITED KINGDOM
Gelles Laboratories, Inc.	101170-0	Columbus	OH
Geo-Analytical Services, Inc.	102082-0	Atlanta	GA
Georgia Power Company/Enviro. Affairs, Enviro. Lab-Dosimetry	100551-0	Smyrna	GA
Geoscience Ltd.	100142-0	San Diego	CA
Ginna Nuclear Station	100514-0	Ontario	NY
GLE Associates, Inc.	102003-0	Tampa	FL
Global EMC Standard Tech. Corp.	200085-0	Taipei County	TAIWAN
GPU Nuclear Chemistry/Materials Labs.	102064-0	Reading	PA
GPU Nuclear Corp.	100510-0	Middletown	PA
Guardian Laboratories	101399-0	Louisville	KY

## H

Hadd-Co Inspection Lab	200326-0	Torrance	CA
Hayes Microcomputer Products, Inc.	200103-0	Atlanta	GA
Health Science Associates	101384-0	Los Alamitos	CA
Henderson/Longfellow Associates, Inc.	102077-0	St. Petersburg	FL
Henry Troemner, Inc.	105013-0	Philadelphia	PA
Hewlett Packard, Product Test Lab, San Diego	200138-0	San Diego	CA
Hi-Tech Environmental and Laboratory Services	102013-0	Cypress	CA
HIH Laboratory, Inc.	101233-0	Webster	TX
Hillmann Environmental Company	101421-0	Union	NJ
Hitachi Information Technology Co., Ltd. Nakai Test Site	200186-0	Kanagawa	JAPAN
Hollytex Carpet Mills, Inc.	100247-0	Anadarko	OK
Holometrix - Micromet	100113-0	Bedford	MA
HomeTek Technology Inc.	200331-0	Taipei Shien	TAIWAN
HPNW	100567-0	Tigard	OR
Hub Testing Laboratory, Inc.	101045-0	Waltham	MA
Hubbell Lighting Photometric Laboratory	200020-0	Christiansburg	VA
Hufcor Laboratory	100239-0	Janesville	WI
Hygeia Laboratories Inc.	102116-0	Sierra Madre	CA
Hygeia Laboratories, Inc.	101011-0	Woburn	MA
Hygeia Laboratories, Inc.	102087-0	Marietta	GA
Hygeia Laboratories, Inc.	200335-0	Miami	FL
HYGENIX, INC.	101199-0	Stamford	CT
Hygieneering, Inc.	101997-0	Willowbrook	IL
Hygienetics Laboratory Services	101147-0	Boston	MA

# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
<b>I</b>			
IBM Austin EMC	200112-0	Austin	TX
IBM Charlotte EMC Facility	200337-0	Charlotte	NC
IBM Hudson Valley Acoustics Laboratory	100323-0	Poughkeepsie	NY
IBM Rochester EMC Lab	200091-0	Rochester	MN
IBM RTP PSG EMC Test Labs	200200-0	Research Triangle Park	NC
IBM Yamato EMC Engineering	200198-0	Yamato Kanagawa	JAPAN
ICN Dosimetry Service, Div. of ICN Biomedicals, Inc.	100555-0	Costa Mesa	CA
ILX Lightwave Corporation, Optical Calibration	200211-0	Bozeman	MT
Incotec Laboratory	200339-0	Mojave	CA
Independent Materials Testing Laboratories, Inc.	100316-0	Plainville	CT
Independent Textile Testing Service, Inc.	100166-0	Dalton	GA
Indiana Automotive Fasteners, Inc.	200150-0	Greenfield	IN
Industrial Acoustics Company, Inc., Aero-Acoustics Laboratory	100404-0	Bronx	NY
Industrial Laboratory	102115-0	Portsmouth	VA
InFocus Systems, Inc.	200152-0	Wilsonville	OR
InfoGard Laboratories, Inc.	100432-0	San Luis Obispo	CA
Ingersoll Fasteners	200208-0	Ingersoll Ontario	CANADA
Inland Foundation Engineering, Inc.	100406-0	San Jacinto	CA
Institute for Environmental Assessment	101249-0	Brooklyn Park	MN
Instron Force Calibration Laboratory	105023-0	Canton	MA
Instrument Specialties Co., Inc.	200076-0	Delaware Water Gap	PA
Integrity Design & Test Services, Inc.	200004-0	Littleton	MA
Intermec Technologies Corporation, Norand Mobile System Division	100269-0	Cedar Rapids	IA
International Asbestos Testing Laboratory	101165-0	Mt. Laurel	NJ
International Standards Laboratory	200234-0	Hsichih Chen, Taipei	TAIWAN
Intertek Testing Services	200201-0	Menlo Park	CA
Intertek Testing Services NA Inc.	100270-0	Boxborough	MA
Intertek Testing Services NA Inc.	100274-0	Lexington	KY
Intertek Testing Services NA Inc.	100402-0	Cortland	NY
Intertek Testing Services NA Inc.	100409-0	Norcross	GA
Intertek Testing Services NA Inc.	200031-0	Middleton	WI
Intertek Testing Services NA Inc.	200297-0	Laguna Niguel	CA
Intertek Testing Services NA, Inc.	200049-0	Oakdale	MN
Iowa Environmental Services, Inc.	101990-0	Des Moines	IA
IPS Corporation	200012-0	Nagano	JAPAN
ITEK Enviro Services, Inc.	200032-0	South San Francisco	CA
Ivaco Rolling Mills, Chemistry Laboratory	200143-0	L'Orignal Ontario	CANADA
<b>J</b>			
J.W. Mfg. DBA Van Petty Mfg.	200225-0	Newbury Park	CA
Japan Quality Assurance Org. Chubu Testing Center Shikatsu Branch	200190-0	Aichi	JAPAN
Japan Quality Assurance Org. Safety Testing Ctr. Tsuru EMC Branch	200192-0	Yamanashi	JAPAN
Japan Quality Assurance Organization	200191-0	Osaka	JAPAN
Kita-Kansai Testing Center			
Japan Quality Assurance Organization Safety Testing Center	200189-0	Tokyo	JAPAN

# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Jimmie Ann Bolton	101735-0	Austin	TX
JLC Environmental Consultants, Inc.	101953-0	New York	NY
JMS Environmental Associates, Ltd.	102012-0	Westmont	IL
Johns Manville Technical Center	100425-0	Littleton	CO
<b>K</b>			
KAM Consultants	102047-0	Long Island City	NY
Kansai Electronic Industry Development Center, Ikoma Testing Lab.	200207-0	Ikoma Nara	JAPAN
Kellco Services, Inc.	101331-0	Hayward	CA
Kevco Services, Inc.	101941-0	Butler	PA
Key Tronic Corp.	200096-0	Spokane	WA
Kingston Environmental Laboratory	200041-0	Lee's Summit	MO
Knauf Fiber Glass Research Laboratory	100248-0	Shelbyville	IN
Kobelco Research Institute, Inc. Stock Company	200169-0	Kobe	JAPAN
Korea Testing & Research Inst. for Chemical Industry-Inchon Off.	200177-0	Inchon	KOREA
Korea Tokin EMC Engineering Co., Ltd.	200220-0	Namyangju-si, Kyunggi-Do	KOREA
KTL Dallas, Inc.	100426-0	Lewisville	TX
KTL Ottawa Inc.	100351-0	Ottawa Ontario	CANADA
Kyowa Kogyosyo Co., Ltd. Test Laboratory	200274-0	Komatsu City, Ishikawa	JAPAN
<b>L</b>			
LA Testing	200232-0	S. Pasadena	CA
Lab/Cor, Inc.	101920-0	Seattle	WA
Labcorp Analytics Laboratory	101004-0	Richmond	VA
LambdaMetrics, Inc.	200122-0	Cedar Park	TX
Landauer, Inc.	100518-0	Glenwood	IL
Larron Laboratory	101415-0	Cape Girardeau	MO
Law Engineering and Environmental Services, Inc.	101066-0	Birmingham	AL
Law Engineering and Environmental Services, Inc.	101152-0	Houston	TX
Law Engineering and Environmental Services, Inc.	101226-0	Charlotte	NC
Law Engineering and Environmental Services, Inc.	101515-0	Tampa	FL
Law Engineering and Environmental Services, Inc.	101515-1	Miami Lakes	FL
Law Engineering and Environmental Services, Inc.	101847-0	Sterling	VA
Law Engineering and Environmental Services, Inc.	101973-0	Dallas	TX
Law Engineering and Environmental Services, Inc.	102035-0	Phoenix	AZ
Legend Technical Services, Inc.	102081-0	St. Paul	MN
Leland-Powell Fasteners, Inc. Fastener Testing Laboratory	200171-0	Martin	TN
Levecque Technical Center	100101-0	Blue Bell	PA
LG Electronics, Inc., Quality and Reliability Center	200040-0	Seoul	KOREA
Liberty Labs, Inc.	200123-0	Kimballton	IA
Lithonia Testing Laboratories	200007-0	Conyers	GA
Lockheed Martin Control Systems EMI	200142-0	Johnson City	NY

# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Laboratory			
Lockheed Martin Idaho Tech. Co., Standards and Calibration Lab.	200115-0	Idaho Falls	ID
Lockheed Martin Technical Operations	105017-0	Sunnyvale	CA
Lockheed Martin Utility Services, Inc.	101383-0	Piketon	OH
Loflin Environmental Services	102044-0	Houston	TX
Los Angeles Harbor Department Testing Laboratory	102020-0	Wilmington	CA
Los Angeles Unified School District	101505-0	Los Angeles	CA
Louisiana Department of Environmental Quality Microanalytical Lab	102000-0	Baton Rouge	LA
Lucent Technologies, Global Product Compliance Lab	100275-0	Holmdel	NJ
<b>M</b>			
M&M Manufacturing Corportation	200356-0	Chino	CA
<b>m</b>			
m.a.c. Paran Consulting Services, Inc.	102108-0	Amelia	OH
<b>M</b>			
MAC Fasteners, Inc.	200141-0	Ottawa	KS
MacLean Fasteners - QC Laboratory	200153-0	Mundelein	IL
MacMillan Bloedel Packaging, Inc., Combined Board Test Lab	100259-0	Pine Hill	AL
MACS Lab, Inc.	101948-0	Santa Clara	CA
MagneTek (Lexington) Engineering Laboratory	200053-0	Lexington	TN
Mallinckrodt Group, Inc.	100503-0	Maryland Heights	MO
Marathon Electric - Wausau Engineering Lab.	200134-0	Wausau	WI
Marine Chemist Service, Inc.	101425-0	Newport News	VA
Materials Analytical Services, Inc.	101235-0	Suwanee	GA
Materials Testing, Inc.	100320-0	Milford	CT
Matsushita EMC Center	100428-0	Taki-gun, Hyogo	JAPAN
Maxim Technologies, Inc.	101091-0	Dallas	TX
Maxim Technologies, Inc.	101091-1	Houston	TX
Maxim Technologies, Inc.	101292-0	Billings	MT
Maxim Technologies, Inc.	200046-0	St. Paul	MN
McCall and Spero Environmental, Inc.	101895-0	Louisville	KY
McKee Environmental Health, Inc.	101135-0	Friendswood	TX
Meidoh Laboratory	200239-0	Toyota, Aichi	JAPAN
MET Laboratories, Inc.	100273-0	Baltimore	MD
Metallic Material Laboratory in Toyota Motor Co.	200223-0	Toyota city Aichi	JAPAN
Metroplex Metrology Lab, Inc.	200262-0	Fort Worth	TX
Metropolitan Environmental Testing Services dba METS Laboratories	200165-0	Waldorf	MD
Michael & Associates	100427-0	State College	PA
Micro Air of Texas, Inc.	102008-0	Houston	TX
Micro Air, Inc.	101221-0	Indianapolis	IN
Micro Analytical Laboratories, Inc.	101151-0	Gainesville	FL
Micro Analytical Laboratories, Inc.	101872-0	Emeryville	CA
Micro Analytical Laboratories, Inc.	200054-0	San Francisco	CA
Micro Analytical, Inc.	101247-0	Milwaukee	WI
Microbac Laboratories, Inc.	101035-0	Erie	PA



**INDEX A. LISTING BY LABORATORY NAME - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
Micron Environmental Labs	200294-0	Arcadia	CA
Microscopic Analysis, Inc.	101037-0	St. Louis	MO
Midwest Laboratories, Inc.	101894-0	Countryside	IL
Minebea Co., Ltd. Fujisawa Manufacturing Unit	200229-0	Fujisawa, Kanagawa	JAPAN
Minnesota Metrology Laboratory	105003-0	St. Paul	MN
Modern Plating Corporation	200320-0	Freeport	IL
Mohawk Industries, Inc.- Lysterly Plant	100156-0	Lysterly	GA
Motorola PPG Compliance Laboratory	200318-0	Boynton Beach	FL
Motorola Product Quality Assurance Laboratory	200005-0	Mansfield	MA
Motorola SSTG EMC/TEMPEST Laboratory	100405-0	Scottsdale	AZ
Mountain Laboratories	101890-0	Spokane	WA
MQS Inspection, Inc. Magnetic Particle & Liquid Penetrant Exam.	200314-0	Santa Fe Springs	CA
MRS., Analytical Laboratory, Inc.	102113-0	Louisville	KY
Multifastener Laboratory	200267-0	Taylor	MI
Muranaka Environmental Consultants, Inc.	102085-0	Honolulu	HI
Mystic Air Quality Consultants, Inc.	101282-0	Groton	CT
<b>N</b>			
NAHB Research Center, Inc.	100104-0	Upper Marlboro	MD
NASA-Lewis Research Center	200130-0	Cleveland	OH
NATEC International, Inc.	101155-0	Garden Grove	CA
National Analytical Laboratories, Inc.	102080-0	Roseville	CA
National Computing Centre Ltd.	100357-0	Manchester	UNITED KINGDOM
National Econ Corporation	102062-0	Tustin	CA
National Econ Corporation	200047-0	Memphis	TN
National Environmental Reference Laboratory	101593-0	Denver	CO
Naval Dosimetry Center	100504-0	Bethesda	MD
Naval Nuclear Propulsion Program Directorate, Washington, D.C.	100565-0	Bremerton	WA
NAWC AD 5.1.7.3. EMI Lab	100408-0	Patuxent River	MD
NAWC-Aircraft Div. Lakehurst Electromagnetic Interference Lab.	200222-0	Lakehurst	NJ
NAWCWPNS EMI Lab, China Lake/Pt. Mugu, CA	200199-0	China Lake	CA
Nemko EESI, Inc.	200116-0	San Diego	CA
Neutron Engineering Inc.	200145-0	Taipei	TAIWAN
New York Testing Laboratories, Inc.	101332-0	Bay Shore	NY
Newport News Shipbuilding Radiological Control Department	100561-0	Newport News	VA
NGC Testing Services, National Gypsum Research Center	200291-0	Buffalo	NY
Niche Analysis, Inc.	102057-0	Mount Vernon	NY
NJSP Calibration Laboratory	200006-0	Princeton	NJ
Northeast Test Consultants	101565-0	Westbrook	ME
Northeast Utilities Dosimetry Laboratory	100540-0	Newington	CT
Northern Telecom BVW Lab	200098-0	Belleville, Ontario	CANADA
Northern Telecom Inc.	100411-0	Santa Clara	CA
Northern Telecom Product Integrity Labs.	100350-0	Kanata Ontario	CANADA
Northern Testing Laboratories, Inc.	101463-0	Fairbanks	AK
Northwest EMC, Inc.	200059-0	Newberg	OR
Northwest Envirocon, Inc.	101869-0	Vancouver	WA



# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Northwestern Steel and Wire Company	200224-0	Sterling	IL
Nova Consulting Group, Inc.	101545-0	Chaska	MN
NOVA Machine Products	200202-0	Middleburg Heights	OH
NSS Technologies	200184-0	Plymouth	MI
NVL Laboratories, Inc.	102063-0	Seattle	WA
NY Environmental & Analytical Labs, Inc.	101967-0	Port Washington	NY
NYLOK Fastener Corporation	200272-0	Anaheim	CA
NYLOK Fastener Corporation	200273-0	Macomb	MI
NYLOK Fastener Corporation - Chicago Testing Laboratory	200275-0	Lincolnwood	IL

## O

O & K Company Limited, Osaka Test Center	200166-0	Osaka-Shi	JAPAN
O'Brien & Gere Laboratories, Inc.	101343-0	Syracuse	NY
Oak Ridge Metrology Center	105000-0	Oak Ridge	TN
Oak Ridge National Laboratory	200228-0	Oak Ridge	TN
Oak Ridge National Laboratory Electric Machinery Center	200244-0	Oak Ridge	TN
OCCU-TEC, Inc.	102025-0	Kansas City	MO
Occupational Health Conservation, Inc.	102050-0	Jacksonville	FL
Ohtama Co., Ltd. Yamanashi EMC Test Site	200175-0	Yamanashi	JAPAN
Okai Iron Works Co., Ltd.	200299-0	Izumisano Osaka	JAPAN
Okawa Laboratory	200296-0	Naka-gun, Ibaraki-ken	JAPAN
Oklahoma Dept. of Environmental Quality-State Environmental Lab	102112-0	Oklahoma City	OK
Omni Environmental, Inc.	102061-0	Austin	TX
Orfield Laboratories, Inc.	200248-0	Minneapolis	MN
Osram Sylvania Inc., Test & Measurements Laboratory	100403-0	Beverly	MA
Owari Precise Products Co., Ltd.	200227-0	Nagoya	JAPAN
Owens Corning Testing Systems - Product Testing Laboratory	100109-0	Granville	OH

## P

PA DEP Bureau of Laboratories	101323-0	Harrisburg	PA
Pace Analytical	101265-0	Indianapolis	IN
Pacific Environmental Services, Inc.	101190-0	Herndon	VA
Pacific Gas & Electric Company, Diablo Canyon Nuclear Power Plant	100537-0	Avila Beach	CA
Pacific Northwest National Laboratory	105020-0	Richland	WA
Pacific Rim Environmental, Inc.	101631-0	Tukwila	WA
Paradyne Corporation	200125-0	Largo	FL
Patriot Environmental Laboratory Services	200358-0	Garden Grove	CA
PB Fasteners	200139-0	Gardena	CA
PBS Environmental Building Consultants, Inc.	101910-0	Portland	OR
PCTEST Engineering Laboratory, Inc.	100431-0	Columbia	MD
PDE Laboratories	200082-0	San Clemente	CA
PEP Testing Laboratory	200097-0	Taipei Hsien	TAIWAN
PFS Corporation	100421-0	Madison	WI
PFU TECHNOCONSUL EMC Center	200259-0	Ishikawa-Ken	JAPAN
Philip Analytical Services	101262-0	Reading	PA
Philip Environmental Services Corp.	101192-0	Columbia	IL
Philips Electronics Industries (TAIWAN) Ltd.	200137-0	Chungli, Taoyuan	TAIWAN

# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Philips Lighting Corporate Calibration & Standards Laboratory	100399-0	Fairmont	WV
Pinchin Environmental Ltd.	101270-0	Mississauga Ontario	CANADA
PMK Group, Inc.	101301-0	Kenilworth	NJ
Portland Bolt and Manufacturing Company, Inc. Testing Laboratory	200168-0	Portland	OR
PP&L, Inc.	100554-0	Allentown	PA
Pratt & Whitney Materials Control Laboratory	200336-0	East Hartford	CT
Precision Micro-Analysis, Inc.	101656-0	Sacramento	CA
Precision Testing Laboratories, Inc.	101580-0	Moore	OK
Prezant Associates, Inc.	101886-0	Seattle	WA
PRIMES (Preflight Integration of Munitions & Electronic Systems)	100422-0	Eglin Air Force Base	FL
Product Safety Engineering, Inc.	200074-0	Dade City	FL
Professional Service Industries, Inc., Pittsburgh Test. Lab. Div.	100430-0	Eugene	OR
Professional Testing (EMI), Inc.	200062-0	Round Rock	TX
Professional Testing Laboratory, Inc.	100297-0	Dalton	GA
ProScience Analytical Services, Inc.	200090-0	Woburn	MA
Prospect Testing Labs, Inc.	200328-0	Des Plaines	IL
Prottsa, S.A. de C.V.	200261-0	Mexico City	MEXICO
Proxtronics, Inc.	100573-0	Burke	VA
PSI	101342-0	Lawrence	KS
PSI	101350-0	Pittsburgh	PA
PSI	101755-0	New York	NY
PSI	101970-0	Brea	CA
PSI, Inc.	100319-0	North Haven	CT
PSI, Inc.	101070-0	Farmingdale	NY
PSI, Inc.	200042-0	New Berlin	WI
Puget Sound Naval Shipyard	101539-0	Bremerton	WA

## Q

QuanTEM Laboratories, LLC	101959-0	Oklahoma City	OK
Queen Carpet Test Laboratory	100429-0	Dalton	GA
Quest Engineering Solutions, Inc.	200036-0	N. Billerica	MA
Quest MicroAnalytics, Inc.	200249-0	Dallas	TX
Quietek Corporation	200347-0	Hsin-Chu City	TAIWAN

## R

R & B Enterprises	100280-0	West Conshohocken	PA
R & D Services, Inc.	200265-0	Cookeville	TN
R. Robinson Analytical Services, Inc.	102041-0	Pensacola	FL
Radiation Detection Company	100512-0	Sunnyvale	CA
Radiation Laboratory, Taiwan Power Company	100562-0	Shihmen, Taipei	TAIWAN
Radiation Technology, Inc.	200086-0	San Jose	CA
Rapid Environmental Management, Inc.	101974-0	Great Neck	NY
Raytheon Technical Services Co. EMI Laboratory	200317-0	Indianapolis	IN
RCM Laboratories, Inc.	101853-0	Countryside	IL
Republic Fastener Manufacturing	200195-0	Newbury Park	CA
Reservoirs Environmental Services, Inc.	101896-0	Denver	CO
Reservoirs Environmental Services, Inc.	101896-1	Houston	TX
Resources, Applications, Designs & Control,	100261-0	Long Beach	CA

# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Inc. (RADCO)			
Retlif Testing Laboratories	100267-0	Ronkonkoma	NY
Retlif Testing Laboratories	100267-1	Goffstown	NH
Rhein Tech Laboratories, Inc.	200061-0	Herndon	VA
RheinTexas, Inc.	200245-0	Plano	TX
RI Analytical Laboratories, Inc.	101440-0	Warwick	RI
Rice Lake Weighing Systems	105001-0	Rice Lake	WI
Ricoh Company LTD. Ohmori Acoustics Test Site	200345-0	Tokyo	JAPAN
Ricoh Company, Ltd. Ohmori EMC Center	200163-0	Tokyo	JAPAN
Rightway Fasteners, Inc.	200210-0	Columbus	IN
Riverbank Acoustical Laboratories	100227-0	Geneva	IL
RJ Lee Group, Inc.	101208-0	Monroeville	PA
RJ Lee Group, Inc.	101208-2	San Leandro	CA
RJ Lee Group, Inc.	101208-3	Manassas	VA
RJ Lee Group, Inc.	101208-5	Houston	TX
Robbins Manufacturing Co., Inc.	200161-0	Fall River	MA
Rockford Bolt & Steel Co.	200255-0	Rockford	IL
Rockford Engineering Services, Inc.	200172-0	Sunol	CA
Rocknel Fastener Inc.	200307-0	Rockford	IL
Rogers Labs, Inc.	200087-0	Louisburg	KS
Roy F. Weston, Inc.	101254-0	Auburn	AL
<b>S</b>			
S&ME, Inc.	102075-0	Charlotte	NC
Safe Environment of America	102021-0	Kent	WA
San Shing Hardware Works Co., Ltd. Test Laboratory	200158-0	Tainan	TAIWAN
Sandia National Laboratories	105002-0	Albuquerque	NM
Sannohashi Corporation	200205-0	Yashioshi, Saitama-ken	JAPAN
Saturn Fasteners, Inc.	200327-0	Burbank	CA
Schneider Laboratories, Inc.	101150-0	Richmond	VA
Scientific Laboratories, Inc.	101904-0	Midlothian	VA
Scientific Laboratories, Inc.	101904-1	New York	NY
SCILAB BOSTON, Inc.	102079-0	East Weymouth	MA
SCILAB California, Inc.	200346-0	Carson	CA
SEAS, Inc.	101185-0	Blacksburg	VA
Seiko Epson Corporation	200157-0	Shiojiri-City Nagano	JAPAN
Severn Trent Laboratories (MA)	101005-0	N. Billerica	MA
SGI EMC Laboratories	200233-0	Mountain View	CA
SGS U.S. Testing Company, Inc.	100416-0	Tulsa	OK
Shaw Industries, Inc., Central Laboratory Operations	100193-0	Dalton	GA
Small IAC Test Laboratory	200287-0	Peterborough, ON	CANADA
SNB Laboratory	200308-0	Cumberland	RI
Solar Environmental Services, Inc.	102006-0	Anchorage	AK
Sony Atsugi EMC Site	200285-0	Shinagawa, Tokyo	JAPAN
Sony Electronics Inc. Product Quality Division EMC Group	200312-0	San Diego	CA
Sony Minokamo EMC Site	200368-0	Gifu-Pref.	JAPAN
South Carolina Department of Health & Environmental Control	101572-0	Columbia	SC
South Coast Air Quality Management District	101567-0	Diamond Bar	CA
South Texas Project Dosimetry Laboratory	100519-0	Wadsworth	TX
Southern California Edison	100506-0	San Clemente	CA
Southern California Edison Company	105014-0	Westminster	CA

**INDEX A. LISTING BY LABORATORY NAME - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
Special Testing Laboratories, Inc.	100308-0	Bethel	CT
Spectrum Research & Testing Laboratory, Inc.	200099-0	Chung-Li, Taoyuan	TAIWAN
Sporton International, Inc.	200079-0	Taipei Hsien	TAIWAN
SPS Technologies Aerospace Product Division	200298-0	Santa Ana	CA
SPS Technologies; Aerospace Fastener Group	200164-0	Jenkintown	PA
St. of California, Bur. of Home Furnishings & Thermal Insulation	100251-0	North Highlands	CA
STAT Analysis Corporation	101202-0	Chicago	IL
State of Connecticut	101237-0	Hartford	CT
State of Virginia Metrology Lab	105007-0	Richmond	VA
STERIS-Isomedix Services	200235-0	Whippany	NJ
Steve Moody Micro Services, Inc.	102056-0	Carrollton	TX
Storagtek Open Area Test Site	200251-0	Louisville	CO
STS Consultants, Ltd.	100191-0	Vernon Hills	IL
Sugiura Seisakusho Co., Ltd.	200226-0	Nishio Aichi	JAPAN
Sumitomo Metal Technology, Inc. Kokura Division	200215-0	Kitakyushu	JAPAN
Sun City Analytical, Inc.	101870-0	El Paso	TX
Sun Microsystems, Inc. EMC Testing	200363-0	Palo Alto	CA
Sundram Fasteners Limited (Inhouse test laboratory)	200212-0	Chennai (Madras), Tamil, Nadh	INDIA
Sundram Fasteners Limited Chemical Testing Laboratory	200256-0	Andhra Pradesh	INDIA
Super Cheng Industrial Testing Laboratory	200280-0	Kaohsiung, Kangshan	TAIWAN
<b>T</b>			
Taiwan Tokin EMC Eng. Corp.	200077-0	Taipei	TAIWAN
TAO/TA2 EMC Laboratory	200140-0	Taoyuan	TAIWAN
Taylor Environmental Group, Inc.	102101-0	Floral Park	NY
TC Analytics, Inc.	101672-0	Norfolk	VA
TDK Corporation's 10m Anechoic Chamber and Chikumagawa Open Site	200309-0	Ichikawa-shi, Chiba-ken	JAPAN
TDK Corporation's Chikumagawa Open Site	200319-0	Saku-shi, Nagano-ken	JAPAN
TEAC Corporation EMC Center	200362-0	Iruma-shi	JAPAN
TEC-AN, Inc.	200325-0	Oklahoma City	OK
TEM, Incorporated	101130-0	Glen Ellyn	IL
Tennessee Valley Authority External Dosimetry Service	100516-0	Soddy-Daisy	TN
Test Site Services, Inc.	100419-0	Marlboro	MA
Test-Con Incorporated	200018-0	Danbury	CT
Testing Mechanics Corp.	102001-0	Seaford	NY
Testwell Laboratories, Inc./Testwell Industries, Inc.	200083-0	Ossining	NY
The Monadnock Company	200268-0	City of Industry	CA
The Perryman Company	200128-0	Houston	PA
The Scott Lawson Group, Ltd.	101228-0	Concord	NH
Thomas Lighting Accent Division Photometric Laboratory	200155-0	Los Angeles	CA
Timberco, Inc.- dba TECO	100420-0	Eugene	OR
Tokin EMC Engineering Co., Ltd. Kawasaki Facility	200217-0	Kawasaki-city, Kanagawa	JAPAN
Tokin EMC Engineering Co., Ltd. Nagoya Testing Laboratory	200219-0	Daian-cho, Inabe-gun, Mie	JAPAN



# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Tokin EMC Engineering Co., Ltd. Osaka Testing Laboratory	200218-0	Sanda-city, Hyogo	JAPAN
Tokin EMC Engineering Co., Ltd. Tsukuba Testing Laboratory	200221-0	Tsukuba-city, Ibaraki	JAPAN
TolTest, Inc.	101594-0	Toledo	OH
Topura Co., Ltd.	200181-0	Hadano Kanagawa	JAPAN
Topura Co., Ltd. Osaka	200242-0	Katano, Osaka	JAPAN
Topura Co., Ltd. Tokai	200243-0	Ogasagun, Shizuoka	JAPAN
Toshiba Corp., Ome Works	200107-0	Ome Tokyo	JAPAN
Toshiba/Houston Test Laboratory	200088-0	Houston	TX
Training Research Co., Ltd.	200174-0	Taipei	TAIWAN
TRC Environmental Corporation	101424-0	Windsor	CT
Tremco, Inc. - Roofing Division, An RPM Company	101188-0	Beachwood	OH
Tri-State Materials Testing Lab, Inc.	200010-0	Newington	CT
Triad Environmental Consulting, Inc.	102073-0	Huntington	WV
Troxler Radiation Monitoring Svc. a div. of Troxler Elect. Labs	100559-0	Research Triangle Park	NC
TSi, Testing Services, Inc.	100108-0	Dalton	GA
TU Electric-Comanche Peak Steam Electric Station	100528-0	Glen Rose	TX
TUV Product Service, Inc.	100268-0	San Diego	CA
TUV Product Service, Inc.	100271-0	New Brighton	MN
TUV Product Service, Inc.	100271-1	Boulder	CO
TUV Rheinland of North America, Inc.	200111-0	Newtown	CT
TUV Telecom Services, Inc.	200039-0	St. Paul	MN
TWN Fastener, Inc.	200194-0	Bowling Green	KY
<b>U</b>			
U.S. Army Center for Health Promotion and Preventive Medicine	200044-0	Aberdeen Proving Ground	MD
U.S. Army Primary Standards Laboratory	105004-0	Redstone Arsenal	AL
U.S. Army Radiation Standards & Dosimetry Laboratory	100539-0	Redstone Arsenal	AL
U.S. EPA	200231-0	Las Vegas	NV
U.S. EPA - National Enforcement Investigations Center	101703-0	Denver	CO
UltraTech Engineering Labs Inc.	200093-0	Mississauga, Ontario	CANADA
Underwriters Laboratories	200252-0	Santa Clara	CA
Underwriters Laboratories Inc.	100414-0	Northbrook	IL
Underwriters Laboratories Inc.	200214-0	Camas	WA
Underwriters Laboratories, Inc.	100255-0	Melville	NY
Underwriters Laboratories, Inc.	200246-0	Research Triangle Park	NC
Union Electric Company, Callaway Plant	100502-0	Fulton	MO
United Analytical Services, Inc.	101732-0	Hillside	IL
United States Dosimetry Technology, Inc.	100571-0	Richland	WA
United States Technologies, Inc.	200162-0	Alpharetta	GA
United Steel and Fasteners Inc.	200341-0	Itasca	IL
Universal Compliance Laboratories	200117-0	San Jose	CA
University (State) Hygienic Laboratory	101288-0	Iowa City	IA
University of Alabama Asbestos Laboratory	102005-0	Tuscaloosa	AL
US Air Force Center for Radiation Dosimetry	100548-0	Brooks AFB	TX
USG Research-Systems Evaluation Laboratory	200132-0	Libertyville	IL



# INDEX A. LISTING BY LABORATORY NAME - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
<b>V</b>			
Vartest Laboratories, Inc.	200027-0	New York	NY
Vermont Fasteners Manufacturing	200254-0	Swanton	VT
Vibro-Acoustics Laboratory	100424-0	Scarborough Ontario	CANADA
Volz Environmental Services, Inc.	101269-0	Pittsburgh	PA
Vulcan Rivet and Bolt Corporation	200277-0	Birmingham	AL
<b>W</b>			
W.R. Grace & Co.	200258-0	Cambridge	MA
Walker Bolt Manufacturing Co.	200126-0	Houston	TX
Washington Laboratories, Ltd.	200066-0	Gaithersburg	MD
Waste Management Federal Services of Hanford, Inc.	101058-0	Richland	WA
Water, Earth Solutions & Technologies, Inc.	102043-0	Dallas	TX
Wausau Insurance Companies	101079-0	Wausau	WI
Wayne Langston, Inc.	200021-0	League City	TX
Webber Gage Division / L.S. Starrett Co.	200038-0	Cleveland	OH
Western Analytical Laboratory	200037-0	Burbank	CA
Western Electro-Acoustic Lab., Inc.	100256-0	Santa Monica	CA
White Environmental Consultants Inc.	200124-0	Anchorage	AK
White Environmental Consultants, Inc.	200350-0	Honolulu	HI
Willamette Industries, Inc. West Coast Development Lab	200045-0	Wilsonville	OR
Wilson-Garner Company	200136-0	Harrison Township	MI
Windermere Info. Tech. Sys.	200084-0	Annapolis	MD
Military/Commercial Compliance Lab.			
Wisconsin Occupational Health Laboratory	101109-0	Madison	WI
WKP Laboratories, Inc.	101950-0	Ossining	NY
Wolverine Plating Corp.	200230-0	Roseville	MI
Wonder Makers Environmental, Inc.	102065-0	Kalamazoo	MI
World Carpets, Inc.	100197-0	Dalton	GA
<b>Y</b>			
Yamaha Motor Metal Testing Laboratory Fasteners and Metals	200276-0	Iwata Shizuoka	JAPAN
<b>Z</b>			
Zacta Technology Corporation Yonezawa Testing Center	200306-0	Yonezawa-shi Yamagata	JAPAN



INDEX

**B**

LISTING BY  
FIELD OF  
ACCREDITATION



## INDEX B. LISTING BY FIELD OF ACCREDITATION

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
<b>CALIBRATION LABORATORIES GROUP</b>			
<i><b>Dimensional</b></i>			
AlliedSignal FM&T Metrology	200108-0	Kansas City	MO
Lockheed Martin Idaho Tech. Co., Standards and Calibration Lab.	200115-0	Idaho Falls	ID
Lockheed Martin Technical Operations	105017-0	Sunnyvale	CA
Metroplex Metrology Lab, Inc.	200262-0	Fort Worth	TX
Minnesota Metrology Laboratory	105003-0	St. Paul	MN
Oak Ridge Metrology Center	105000-0	Oak Ridge	TN
Sandia National Laboratories	105002-0	Albuquerque	NM
Southern California Edison Company	105014-0	Westminster	CA
State of Virginia Metrology Lab	105007-0	Richmond	VA
Webber Gage Division / L.S. Starrett Co.	200038-0	Cleveland	OH
<i><b>Electromagnetics - DC/Low Frequency</b></i>			
Compaq Corporate Metrology	200154-0	Houston	TX
Fluke Corporation Primary Standards Laboratory	105016-0	Everett	WA
GE Industrial Systems, Renewal Services - TEMS	200029-0	Rome	NY
Lockheed Martin Idaho Tech. Co., Standards and Calibration Lab.	200115-0	Idaho Falls	ID
Lockheed Martin Technical Operations	105017-0	Sunnyvale	CA
Sandia National Laboratories	105002-0	Albuquerque	NM
Southern California Edison Company	105014-0	Westminster	CA
U.S. Army Primary Standards Laboratory	105004-0	Redstone Arsenal	AL
<i><b>Electromagnetics - RF/Microwave</b></i>			
Compaq Corporate Metrology	200154-0	Houston	TX
Liberty Labs, Inc.	200123-0	Kimballton	IA
Sandia National Laboratories	105002-0	Albuquerque	NM
U.S. Army Primary Standards Laboratory	105004-0	Redstone Arsenal	AL
<i><b>Ionizing Radiation</b></i>			
CDRH X-Ray Calibration Laboratory	105018-0	Rockville	MD
Pacific Northwest National Laboratory	105020-0	Richland	WA
Sandia National Laboratories	105002-0	Albuquerque	NM
STERIS-Isomedix Services	200235-0	Whippany	NJ
U.S. Army Primary Standards Laboratory	105004-0	Redstone Arsenal	AL
<i><b>Mechanical</b></i>			
AlliedSignal FM&T Metrology	200108-0	Kansas City	MO
Denver Instrument Co. Weight Lab	200106-0	Arvada	CO
Henry Troemner, Inc.	105013-0	Philadelphia	PA
Instron Force Calibration Laboratory	105023-0	Canton	MA
Lockheed Martin Technical Operations	105017-0	Sunnyvale	CA
Minnesota Metrology Laboratory	105003-0	St. Paul	MN
Rice Lake Weighing Systems	105001-0	Rice Lake	WI
Sandia National Laboratories	105002-0	Albuquerque	NM
Southern California Edison Company	105014-0	Westminster	CA
State of Virginia Metrology Lab	105007-0	Richmond	VA



# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
<b><i>Optical Radiation</i></b>			
ILX Lightwave Corporation, Optical Calibration	200211-0	Bozeman	MT
<b><i>Thermodynamic</i></b>			
Fluke Corporation Primary Standards Laboratory	105016-0	Everett	WA
GE Industrial Systems, Renewal Services - TEMS	200029-0	Rome	NY
Lockheed Martin Technical Operations	105017-0	Sunnyvale	CA
Minnesota Metrology Laboratory	105003-0	St. Paul	MN
Sandia National Laboratories	105002-0	Albuquerque	NM
State of Virginia Metrology Lab	105007-0	Richmond	VA
U.S. Army Primary Standards Laboratory	105004-0	Redstone Arsenal	AL
<b><i>Time &amp; Frequency</i></b>			
Compaq Corporate Metrology	200154-0	Houston	TX
Fluke Corporation Primary Standards Laboratory	105016-0	Everett	WA
Lockheed Martin Idaho Tech. Co., Standards and Calibration Lab.	200115-0	Idaho Falls	ID
Lockheed Martin Technical Operations	105017-0	Sunnyvale	CA
Sandia National Laboratories	105002-0	Albuquerque	NM
State of Virginia Metrology Lab	105007-0	Richmond	VA
U.S. Army Primary Standards Laboratory	105004-0	Redstone Arsenal	AL
<b>COMPUTER/ELECTRONICS GROUP</b>			
<b><i>Cryptographic Modules Testing</i></b>			
Cryptographic Equipment Assessment Lab. (CEAL)	200002-0	McLean	VA
DOMUS ITSL, a division of LGS Group, Incorporated	200017-0	Ottawa Ontario	CANADA
InfoGard Laboratories, Inc.	100432-0	San Luis Obispo	CA
<b><i>GOSIP</i></b>			
Control Data Accredited OSI Test Center	100354-0	Arden Hills	MN
National Computing Centre Ltd.	100357-0	Manchester	UNITED KINGDOM
<b><i>Federal Communications Commission (FCC) Methods</i></b>			
3M Product Safety EMC Laboratory	200033-0	St. Paul	MN
A-Pex International Co., Ltd. Yokowa Laboratory	200109-0	Mie-ken	JAPAN
Advance Data Technology Corporation	200102-0	Taipei Hsien	TAIWAN
AHD	200129-0	Dowagiac	MI
Akzo Kashima Ltd. Kakegawa EMC Test Site	100290-2	Shizuoka	JAPAN
Akzo Kashima Ltd., Kashima EMC Site	100290-0	Ibaraki	JAPAN
Akzo Kashima Ltd., Kawasaki Technical Center	200300-0	Kawasaki	JAPAN
Akzo Kashima Ltd., Matsuda EMC Test Site	100290-4	Kanagawa	JAPAN
Akzo Kashima Ltd., Nagano EMC Test Site	100290-3	Nagano	JAPAN
Akzo Kashima Ltd., Tochigi EMC Test Site	100290-5	Tochigi	JAPAN
Analab, LLC	200260-0	Sterling	PA
Apple Computer, Inc., EMC Compliance	200071-0	Cupertino	CA

**INDEX B. LISTING BY FIELD OF ACCREDITATION - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
Laboratory			
AST Research, Inc. EMC Lab.	200135-0	Irvine	CA
Bay Area Compliance Laboratory, Corp.	200167-0	Sunnyvale	CA
Cabletron Systems, Inc.	200121-0	Rochester	NH
Canadian Standards Association	100322-0	Etobicoke Ontario	CANADA
Celestica International Inc.	200055-0	North York, Ontario	CANADA
Chemitox EMC Research, Inc.	200120-0	Yamanashi-ken	JAPAN
Chomerics Test Services (CTS)	100296-0	Woburn	MA
Cisco Systems, Inc.	200114-0	San Jose	CA
Communication Certification Laboratory	100272-0	Salt Lake City	UT
Compaq Computer Corp. EMC Test Facility	200078-0	Colorado Springs	CO
Compaq Computer Corp. Emissions Control Lab	200058-0	Houston	TX
Compatible Electronics, Inc.	200063-0	Agoura	CA
Compliance Eng. Svces, Inc., Compliance Certification Services	200065-0	Sunnyvale	CA
Compliance Engineering Services, Inc. - Taiwan	200064-0	Sunnyvale	CA
Compliance Test Laboratories, Inc.	200237-0	Liberty	SC
Cosmos Corporation	200151-0	Watarai-gun Mie	JAPAN
Criterion Technology	100396-0	Rollinsville	CO
Curtis-Straus LLC	200057-0	Littleton	MA
D.L.S. Electronic Systems, Inc.	100276-0	Wheeling	IL
Data General Corporation	100339-0	Westboro	MA
Dell Regulatory Test Laboratories	200052-0	Round Rock	TX
Digital Regulatory Engineering and Testing Services	100413-0	Marlboro	MA
Diviersified T.E.S.T. Technologies, Inc.	200340-0	Groton	NY
Eastman Kodak Co.-Regulatory Compliance Center-EMC Facility	200313-0	Rochester	NY
Electro Magnetic Test, Inc.	200147-0	Mountain View	CA
Electro. Meas. Off., Yokohama Res. & Dev. Ctr. Murata Mfg. Co.	200263-0	Kanagawa	JAPAN
Electronic Compliance Laboratories, Inc.	200089-0	Sunnyvale	CA
Electronic Research & Service Organization/ITRI	200118-0	Hsinchu	TAIWAN
Electronics Test Centre	200282-0	Kanata, Ont.	CANADA
Electronics Testing Center, Taiwan	200133-0	Taoyuan Hsien	TAIWAN
Elite Electronic Engineering Company	100278-0	Downers Grove	IL
Elliott Laboratories, Inc.	200069-0	Sunnyvale	CA
EMC Compliance Mgmt Group, dba Turntech Scientific & Instr., Inc.	200068-0	Mountain View	CA
EMC International, Inc.	200094-0	Youngsville	NC
EMC Kashima Corporation	200070-0	Chiba-ken	JAPAN
EMCE Engineering, Inc.	200092-0	Fremont	CA
Fountain Compliance Laboratory	200101-0	Somerset	NJ
Fujitsu Evaluation Engineering Laboratory	200281-0	Numazu, Shizuoka-Pref.	JAPAN
Fujitsu General EMC Laboratory	200373-0	Kawasaki	JAPAN
Garwood Laboratories, Inc.	200119-0	Placentia	CA
Global EMC Standard Tech. Corp.	200085-0	Taipei County	TAIWAN
Hayes Microcomputer Products, Inc.	200103-0	Atlanta	GA
Hewlett Packard, Product Test Lab, San	200138-0	San Diego	CA

# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Diego			
Hitachi Information Technology Co., Ltd.	200186-0	Kanagawa	JAPAN
Nakai Test Site			
HomeTek Technology Inc.	200331-0	Taipei Shien	TAIWAN
IBM Austin EMC	200112-0	Austin	TX
IBM Charlotte EMC Facility	200337-0	Charlotte	NC
IBM Rochester EMC Lab	200091-0	Rochester	MN
IBM RTP PSG EMC Test Labs	200200-0	Research Triangle Park	NC
IBM Yamato EMC Engineering	200198-0	Yamato Kanagawa	JAPAN
InFocus Systems, Inc.	200152-0	Wilsonville	OR
Instrument Specialties Co., Inc.	200076-0	Delaware Water Gap	PA
Integrity Design & Test Services, Inc.	200004-0	Littleton	MA
Intermec Technologies Corporation, Norand	100269-0	Cedar Rapids	IA
Mobile System Division			
International Standards Laboratory	200234-0	Hsichih Chen, Taipei	TAIWAN
Intertek Testing Services	200201-0	Menlo Park	CA
Intertek Testing Services NA Inc.	100270-0	Boxborough	MA
Intertek Testing Services NA Inc.	100274-0	Lexington	KY
Intertek Testing Services NA Inc.	100409-0	Norcross	GA
Intertek Testing Services NA Inc.	200297-0	Laguna Niguel	CA
Intertek Testing Services NA, Inc.	200049-0	Oakdale	MN
IPS Corporation	200012-0	Nagano	JAPAN
Japan Quality Assurance Org. Chubu Testing	200190-0	Aichi	JAPAN
Center Shikatsu Branch			
Japan Quality Assurance Org. Safety Testing	200192-0	Yamanashi	JAPAN
Ctr. Tsuru EMC Branch			
Japan Quality Assurance Organization	200191-0	Osaka	JAPAN
Kita-Kansai Testing Center			
Japan Quality Assurance Organization Safety	200189-0	Tokyo	JAPAN
Testing Center			
Kansai Electronic Industry Development	200207-0	Ikoma Nara	JAPAN
Center, Ikoma Testing Lab.			
Key Tronic Corp.	200096-0	Spokane	WA
Korea Tokin EMC Engineering Co., Ltd.	200220-0	Namyangju-si, Kyunggi-Do	KOREA
KTL Dallas, Inc.	100426-0	Lewisville	TX
KTL Ottawa Inc.	100351-0	Ottawa Ontario	CANADA
LambdaMetrics, Inc.	200122-0	Cedar Park	TX
LG Electronics, Inc., Quality and Reliability	200040-0	Seoul	KOREA
Center			
Lucent Technologies, Global Product	100275-0	Holmdel	NJ
Compliance Lab			
Matsushita EMC Center	100428-0	Taki-gun, Hyogo	JAPAN
MET Laboratories, Inc.	100273-0	Baltimore	MD
Motorola PPG Compliance Laboratory	200318-0	Boynton Beach	FL
Motorola Product Quality Assurance	200005-0	Mansfield	MA
Laboratory			
Motorola SSTG EMC/TEMPEST Laboratory	100405-0	Scottsdale	AZ
Nemko EESI, Inc.	200116-0	San Diego	CA
Neutron Engineering Inc.	200145-0	Taipei	TAIWAN
Northern Telecom BVW Lab	200098-0	Belleville, Ontario	CANADA
Northern Telecom Inc.	100411-0	Santa Clara	CA
Northern Telecom Product Integrity Labs.	100350-0	Kanata Ontario	CANADA

# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Northwest EMC, Inc.	200059-0	Newberg	OR
Ohtama Co., Ltd. Yamanashi EMC Test Site	200175-0	Yamanashi	JAPAN
Paradyne Corporation	200125-0	Largo	FL
PCTEST Engineering Laboratory, Inc.	100431-0	Columbia	MD
PDE Laboratories	200082-0	San Clemente	CA
PEP Testing Laboratory	200097-0	Taipei Hsien	TAIWAN
PFU TECHNOCONSUL EMC Center	200259-0	Ishikawa-Ken	JAPAN
Philips Electronics Industries (TAIWAN) Ltd.	200137-0	Chungli, Taoyuan	TAIWAN
Product Safety Engineering, Inc.	200074-0	Dade City	FL
Professional Testing (EMI), Inc.	200062-0	Round Rock	TX
Quest Engineering Solutions, Inc.	200036-0	N. Billerica	MA
Quietek Corporation	200347-0	Hsin-Chu City	TAIWAN
R & B Enterprises	100280-0	West Conshohocken	PA
Radiation Technology, Inc.	200086-0	San Jose	CA
Retlif Testing Laboratories	100267-0	Ronkonkoma	NY
Retlif Testing Laboratories	100267-1	Goffstown	NH
Rhein Tech Laboratories, Inc.	200061-0	Herndon	VA
RheinTexas, Inc.	200245-0	Plano	TX
Ricoh Company, Ltd. Ohmori EMC Center	200163-0	Tokyo	JAPAN
Rockford Engineering Services, Inc.	200172-0	Sunol	CA
Rogers Labs, Inc.	200087-0	Louisburg	KS
Seiko Epson Corporation	200157-0	Shiojiri-City Nagano	JAPAN
SGI EMC Laboratories	200233-0	Mountain View	CA
Sony Atsugi EMC Site	200285-0	Shinagawa, Tokyo	JAPAN
Sony Electronics Inc. Product Quality Division EMC Group	200312-0	San Diego	CA
Sony Minokamo EMC Site	200368-0	Gifu-Pref.	JAPAN
Spectrum Research & Testing Laboratory, Inc.	200099-0	Chung-Li, Taoyuan	TAIWAN
Sporton International, Inc.	200079-0	Taipei Hsien	TAIWAN
Storagtek Open Area Test Site	200251-0	Louisville	CO
Sun Microsystems, Inc. EMC Testing	200363-0	Palo Alto	CA
Taiwan Tokin EMC Eng. Corp.	200077-0	Taipei	TAIWAN
TAO/TA2 EMC Laboratory	200140-0	Taoyuan	TAIWAN
TDK Corporation's 10m Anechoic Chamber and Chikumagawa Open Site	200309-0	Ichikawa-shi, Chiba-ken	JAPAN
TDK Corporation's Chikumagawa Open Site	200319-0	Saku-shi, Nagano-ken	JAPAN
TEAC Corporation EMC Center	200362-0	Iruma-shi	JAPAN
Test Site Services, Inc.	100419-0	Marlboro	MA
Tokin EMC Engineering Co., Ltd. Kawasaki Facility	200217-0	Kawasaki-city, Kanagawa	JAPAN
Tokin EMC Engineering Co., Ltd. Nagoya Testing Laboratory	200219-0	Daian-cho, Inabe-gun, Mie	JAPAN
Tokin EMC Engineering Co., Ltd. Osaka Testing Laboratory	200218-0	Sanda-city, Hyogo	JAPAN
Tokin EMC Engineering Co., Ltd. Tsukuba Testing Laboratory	200221-0	Tsukuba-city, Ibaraki	JAPAN
Toshiba Corp., Ome Works	200107-0	Ome Tokyo	JAPAN
Training Research Co., Ltd.	200174-0	Taipei	TAIWAN
TUV Product Service, Inc.	100268-0	San Diego	CA
TUV Product Service, Inc.	100271-0	New Brighton	MN



## INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
TUV Product Service, Inc.	100271-1	Boulder	CO
TUV Rheinland of North America, Inc.	200111-0	Newtown	CT
TUV Telecom Services, Inc.	200039-0	St. Paul	MN
UltraTech Engineering Labs Inc.	200093-0	Mississauga, Ontario	CANADA
Underwriters Laboratories	200252-0	Santa Clara	CA
Underwriters Laboratories Inc.	100414-0	Northbrook	IL
Underwriters Laboratories Inc.	200214-0	Camas	WA
Underwriters Laboratories, Inc.	100255-0	Melville	NY
Underwriters Laboratories, Inc.	200246-0	Research Triangle Park	NC
United States Technologies, Inc.	200162-0	Alpharetta	GA
Universal Compliance Laboratories	200117-0	San Jose	CA
Washington Laboratories, Ltd.	200066-0	Gaithersburg	MD
Wayne Langston, Inc.	200021-0	League City	TX
Windermere Info. Tech. Sys.	200084-0	Annapolis	MD
Military/Commercial Compliance Lab.			
Zacta Technology Corporation Yonezawa Testing Center	200306-0	Yonezawa-shi Yamagata	JAPAN

### *MIL-STD-462 Test Methods*

Acton Environmental Testing, dba National Technical Systems	100347-0	Boxborough	MA
Eaton E3 Laboratory	100382-0	Southfield	MI
Elite Electronic Engineering Company	100278-0	Downers Grove	IL
GEC Marconi Avionics Ltd Environmental and EMC Test Center	200304-0	Kent	UNITED KINGDOM
Intertek Testing Services NA Inc.	100270-0	Boxborough	MA
Lockheed Martin Control Systems EMI Laboratory	200142-0	Johnson City	NY
Motorola SSTG EMC/TEMPEST Laboratory	100405-0	Scottsdale	AZ
NAWC AD 5.1.7.3. EMI Lab	100408-0	Patuxent River	MD
NAWC-Aircraft Div. Lakehurst Electromagnetic Interference Lab.	200222-0	Lakehurst	NJ
NAWCWPNS EMI Lab, China Lake/Pt. Mugu, CA	200199-0	China Lake	CA
PRIMES (Preflight Integration of Munitions & Electronic Systems)	100422-0	Eglin Air Force Base	FL
R & B Enterprises	100280-0	West Conshohocken	PA
Raytheon Technical Services Co. EMI Laboratory	200317-0	Indianapolis	IN
Retlif Testing Laboratories	100267-0	Ronkonkoma	NY
TUV Product Service, Inc.	100268-0	San Diego	CA
TUV Product Service, Inc.	100271-0	New Brighton	MN

### **DOSIMETRY GROUP**

#### *Ionizing Radiation Dosimetry*

Arizona Public Service Co., Palo Verde Nuclear Generating Station	100536-0	Tonopah	AZ
Atomic Energy Industrial Laboratory of the Southwest, Inc.	100556-0	Houston	TX
Baltimore Gas & Electric Company	100501-0	Lusby	MD
Battelle - Pacific Northwest National Laboratory	200216-0	Richland	WA
Carolina Power & Light Company, Harris	100517-0	New Hill	NC



**INDEX B. LISTING BY FIELD OF ACCREDITATION - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
Energy & Enviro. Center			
Clinton Power Station	100570-0	Clinton	IL
Combustion Engineering, Inc.	100563-0	Windsor	CT
ComEd - TLD Processing Lab - CTEAM Facility	100541-0	Bolingbrook	IL
Con Edison, Indian Point	100538-0	Buchanan	NY
Detroit Edison, Fermi 2 Dosimetry Laboratory	100529-0	Newport	MI
Duke Engineering and Services Environmental Laboratory	100524-0	Bolton	MA
Duke Power Company Dosimetry Laboratory	100505-0	Charlotte	NC
Duquesne Light Company, Beaver Valley Power Station	100521-0	Shippingport	PA
Eberline Dosimetry Service	100515-0	Albuquerque	NM
Electric Boat Corp/A General Dynamics Co. Radiological Ctrl. Dept	100560-0	Groton	CT
Entergy Operations, Inc.	100535-0	Taft	LA
Florida Power & Light Company	100544-0	Juno Beach	FL
Georgia Power Company/Enviro. Affairs, Enviro. Lab-Dosimetry	100551-0	Smyrna	GA
Ginna Nuclear Station	100514-0	Ontario	NY
GPU Nuclear Corp.	100510-0	Middletown	PA
HPNW	100567-0	Tigard	OR
ICN Dosimetry Service, Div. of ICN Biomedicals, Inc.	100555-0	Costa Mesa	CA
Landauer, Inc.	100518-0	Glenwood	IL
Mallinckrodt Group, Inc.	100503-0	Maryland Heights	MO
Naval Dosimetry Center	100504-0	Bethesda	MD
Naval Nuclear Propulsion Program Directorate, Washington, D.C.	100565-0	Bremerton	WA
Newport News Shipbuilding Radiological Control Department	100561-0	Newport News	VA
NJSP Calibration Laboratory	200006-0	Princeton	NJ
Northeast Utilities Dosimetry Laboratory	100540-0	Newington	CT
Pacific Gas & Electric Company, Diablo Canyon Nuclear Power Plant	100537-0	Avila Beach	CA
PP&L, Inc.	100554-0	Allentown	PA
Proxtronic, Inc.	100573-0	Burke	VA
Radiation Detection Company	100512-0	Sunnyvale	CA
Radiation Laboratory, Taiwan Power Company	100562-0	Shihmen, Taipei	TAIWAN
South Texas Project Dosimetry Laboratory	100519-0	Wadsworth	TX
Southern California Edison	100506-0	San Clemente	CA
Tennessee Valley Authority External Dosimetry Service	100516-0	Soddy-Daisy	TN
Troxler Radiation Monitoring Svc. a div. of Troxler Elect. Labs	100559-0	Research Triangle Park	NC
TU Electric-Comanche Peak Steam Electric Station	100528-0	Glen Rose	TX
U.S. Army Radiation Standards & Dosimetry Laboratory	100539-0	Redstone Arsenal	AL
U.S. EPA	200231-0	Las Vegas	NV

## INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Union Electric Company, Callaway Plant	100502-0	Fulton	MO
United States Dosimetry Technology, Inc.	100571-0	Richland	WA
US Air Force Center for Radiation Dosimetry	100548-0	Brooks AFB	TX
<b>ENVIRONMENTAL GROUP</b>			
<i>Asbestos Fiber Analysis (PLM Test Method)</i>			
A & B Environmental Services, Inc.	101793-0	Houston	TX
A T Labs	101062-0	Youngstown	OH
A.E.S.L.	200303-0	Tempe	AZ
A.R.C. Laboratories, Inc.	101832-0	Grand Forks	ND
AAC Trinity, Inc.	101168-0	Farmington Hills	MI
ABM Environmental Consultants, Inc.	102015-0	Long Island City	NY
Accredited Environmental Technologies, Inc.	101051-0	Media	PA
Accredited Environmental Technologies, Inc.	200236-0	Leland	NC
ACM Environmental, Inc.	101977-0	South Bend	IN
Advanced Industrial Hygiene Services, Inc.	101006-0	Miami	FL
AGRA Earth and Environmental, Inc. - Env. Chemistry Laboratory	200357-0	Portland	OR
AGX, Inc.	101578-0	Cranberry Township	PA
Aires Consulting Group, Inc.	101014-0	Batavia	IL
AIRResearch, Inc.	101868-0	Wauwatosa	WI
Airtek Environmental Corp.	102011-0	New York	NY
ALAC	200323-0	Bronx	NY
Allegheny Asbestos Analysis	101704-0	Carnegie	PA
Alpine Consulting, Inc.	102089-0	Colorado Springs	CO
AMA Analytical Services, Inc.	101143-0	Lanham	MD
Ambient Labs, Inc.	101618-0	New York	NY
American Asbestos Laboratories, Inc.	101775-0	Miami	FL
American Electric Power, Environmental Laboratory	102102-0	Columbus	OH
American Medical Laboratories, Inc.	101136-0	Chantilly	VA
Analytica Solutions, Inc.	101086-0	Broomfield	CO
Analytical Environmental Services International, Inc.	200051-0	Hato Rey	PR
Analytical Environmental Services, Inc.	102033-0	Atlanta	GA
Analytical Industries, Inc.	101855-0	Paducah	KY
Analytical Labs San Francisco, Inc.	101909-0	San Francisco	CA
Analyticalab	101727-0	Willow Springs	IL
Apex Research Laboratory	102118-0	Whitmore Lake	MI
Apollo Environmental, Inc.	101871-0	Gibsonton	FL
Applied Environmental, Inc.	101611-0	Reston	VA
ASBESTECH	101442-0	Carmichael	CA
Asbestos Analysis and Information Service, Inc.	101261-0	Four Oaks	NC
Asbestos Analytical	101771-0	Tucson	AZ
Asbestos Consulting & Testing (ACT)	101649-0	Lenexa	KS
Asbestos TEM Laboratories, Inc.	101891-0	Berkeley	CA
Asbestos TEM Laboratories, Inc.	200104-0	Sparks	NV
Assaigai Analytical Laboratories, Inc.	101457-0	Albuquerque	NM
ATC Associates Inc.	102071-0	Cincinnati	OH
ATC Associates Inc.	200250-0	Columbia	MD
ATC Associates Inc.	200290-0	Dallas	TX

**INDEX B. LISTING BY FIELD OF ACCREDITATION - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
ATC Associates, Inc.	101187-0	New York	NY
ATC Environmental, Inc.	102031-0	Englewood	CO
Athenica Environmental Services, Inc.	101958-0	Long Island City	NY
Aurora Consolidated Laboratories	101661-0	West Allis	WI
Austin Analytical Laboratory	200014-0	Austin	TX
Batta Laboratories, Inc.	101032-0	Newark	DE
Bay Area Air Quality Management District	102090-0	San Francisco	CA
Beling Consultants, Inc.	101356-0	Moline	IL
Bell Laboratories, Division Lucent Technologies, Inc.	101965-0	Murray Hill	NJ
Braun Intertec Corporation	101234-0	Minneapolis	MN
CAM Environmental Services, Inc.	200240-0	Pasadena	TX
CAMCO Lab	101803-0	Fontana	CA
Cape Environmental Management, Inc.	102111-0	Atlanta	GA
Carnow, Conibear & Associates Ltd.	101039-0	Chicago	IL
Carolina Environmental, Inc.	101768-0	Cary	NC
Chatfield Technical Consulting Limited	101103-0	Mississauga Ontario	CANADA
ChemScope, Inc.	101061-0	North Haven	CT
CHEMTEX Environmental Laboratory, Inc.	200025-0	Port Arthur	TX
Chopra-Lee, Inc.	200095-0	Grand Island	NY
City of Los Angeles Department of Water and Power	101111-0	Los Angeles	CA
Clark Seif Clark, Inc.	200324-0	Chatsworth	CA
Clayton Environmental Consultants	101106-0	Seattle	WA
Clayton Laboratory Services	101125-0	Kennesaw	GA
Comprehensive Health Services-Environmental Health PLM Laboratory	101759-0	Kennedy Space Center	FL
Con Edison - ChemLab	101558-0	Long Island City	NY
Concord Analysis, Inc.	101884-0	Chatsworth	CA
Continental Envirotech, Inc.	200080-0	Mesa	AZ
Converse Consultants MR, Inc.	102091-0	Reno	NV
Covino Environmental Associates, Inc.	101781-0	Woburn	MA
Craig Environmental Services, Inc.	200289-0	Mays Landing	NJ
Crisp Analytical Laboratory	200349-0	Carrollton	TX
Criterion Laboratories, Inc.	102046-0	Bensalem	PA
CT&E Environmental Services Inc.	200067-0	San Diego	CA
CTL Environmental Services	101216-0	Harbor City	CA
Dames & Moore, Inc.	101433-0	Salem	NH
DataChem Laboratories	101917-0	Cincinnati	OH
Davis & Floyd, Inc.	101410-0	Greenwood	SC
DCM Science Laboratory, Inc.	101258-0	Wheat Ridge	CO
Department of Environmental Health Industrial Hygiene Laboratory	101530-0	San Diego	CA
Design for Health, Inc.	101864-0	San Diego	CA
DHMH-Air Quality Laboratory	101523-0	Baltimore	MD
Dixon Information Inc.	101012-0	South Salt Lake	UT
DLZ Laboratories, Inc.	101060-0	Columbus	OH
Dolphin Environmental Consultants	102086-0	Stafford	TX
Dove Environmental Corporation	102053-0	Miami	FL
EA Group	101019-0	Mentor	OH
EAI, Inc.	102114-0	Jersey City	NJ

# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Eastern Analytical Services, Inc.	101646-0	Elmsford	NY
EcoSystems Environmental, Inc.	101162-0	Carrollton	TX
ECS/Wagner Environmental	101064-0	Eugene	OR
EEC, Inc.	101088-0	Raleigh	NC
EMS Laboratories, Inc.	101218-0	Pasadena	CA
EMSL Analytical Mobile Laboratory	200344-0	Chicago	IL
EMSL Analytical, Inc.	101048-0	Westmont	NJ
EMSL Analytical, Inc.	101048-1	Atlanta	GA
EMSL Analytical, Inc.	101048-2	Piscataway	NJ
EMSL Analytical, Inc.	101048-3	San Mateo	CA
EMSL Analytical, Inc.	101048-4	Ann Arbor	MI
EMSL Analytical, Inc.	101048-9	New York	NY
EMSL Analytical, Inc.	101048-10	Carle Place	NY
EMSL Analytical, Inc.	101277-0	Fairfax	VA
EMSL Analytical, Inc.	102104-0	Greensboro	NC
EMSL Analytical, Inc.	102105-0	Warwick	RI
EMSL Analytical, Inc.	102106-0	Houston	TX
EMSL Analytical, Inc.	200019-0	Seattle	WA
EMSL Analytical, Inc.	200034-0	Dallas	TX
EMSL Analytical, Inc.	200056-0	Williamsville	NY
EMSL Analytical, Inc.	200188-0	Indianapolis	IN
EMSL Analytical, Inc.	200204-0	N. Miami Beach	FL
EMSL Analytical, Inc.	200247-0	Charlotte	NC
EMSL Analytical, Inc.	200293-0	Beltsville	MD
EMSL Analytical, Inc.	200310-0	Carlstadt	NJ
EMSL Analytical, Inc.	200333-0	Elmsford	NY
EMSL Analytical, Inc.	200375-0	Baton Rouge	LA
ENCORP	200013-0	El Segundo	CA
Enviro Techniques, Inc.	200024-0	Paterson	NJ
Enviro-Probe, Inc.	101222-0	Bronx	NY
EnviroHealth Technologies, Inc.	200374-0	St. Louis	MO
EnviroMed Services, Inc.	101514-0	New Haven	CT
Environmental Enterprise Group(EEG), Inc.	101587-0	Russellville	AR
Environmental Hazards Services, L.L.C.	101882-0	Richmond	VA
Environmental Health Laboratories	101506-0	Clayton	MO
Environmental Management Consultants, Inc.	101926-0	Scottsdale	AZ
Environmental Monitoring & Consulting Associates	101087-0	Somerville	NJ
Environmental Services International, Inc.	101306-0	St. Albans	WV
Environmental Testing and Monitoring Services, Inc.	200131-0	Virginia Beach	VA
Environmental Testing, Inc.	101848-0	Middletown	DE
EnvironMETeo Services Inc.	101807-0	Waipahu	HI
Envirotest, Inc.	101595-0	Houston	TX
ERI Consulting Engineers, Inc.	101232-0	Tyler	TX
ERT Testing Services	101295-0	Highland Park	MI
ESG Laboratories	102029-0	Indianapolis	IN
EssTek Ohio, Inc.	102093-0	Middleburg Heights	OH
Fiberquant, Inc.	101031-0	Phoenix	AZ
Fibertec, Inc.	101510-0	Holt	MI
Fluor Daniel Fernald, Inc., Analytical Laboratory Services	102010-0	Cincinnati	OH



# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Forensic Analytical Specialties, Inc.	101459-0	Hayward	CA
Forensic Analytical Specialties, Inc.	101459-1	Rancho Domingues	CA
Froehling & Robertson, Inc.	102060-0	Richmond	VA
FRS Geotech, Inc.	102078-0	Denver	CO
GA Environmental Services, Inc.	101996-0	Eddystone	PA
Galson Laboratories	101375-0	East Syracuse	NY
Gelles Laboratories, Inc.	101170-0	Columbus	OH
Geo-Analytical Services, Inc.	102082-0	Atlanta	GA
GLE Associates, Inc.	102003-0	Tampa	FL
GPU Nuclear Chemistry/Materials Labs.	102064-0	Reading	PA
Guardian Laboratories	101399-0	Louisville	KY
Health Science Associates	101384-0	Los Alamitos	CA
Henderson/Longfellow Associates, Inc.	102077-0	St. Petersburg	FL
Hi-Tech Environmental and Laboratory Services	102013-0	Cypress	CA
HIH Laboratory, Inc.	101233-0	Webster	TX
Hillmann Environmental Company	101421-0	Union	NJ
Hub Testing Laboratory, Inc.	101045-0	Waltham	MA
Hygeia Laboratories Inc.	102116-0	Sierra Madre	CA
Hygeia Laboratories, Inc.	101011-0	Woburn	MA
Hygeia Laboratories, Inc.	102087-0	Marietta	GA
Hygeia Laboratories, Inc.	200335-0	Miami	FL
HYGENIX, INC.	101199-0	Stamford	CT
Hygieneering, Inc.	101997-0	Willowbrook	IL
Hygienetics Laboratory Services	101147-0	Boston	MA
Industrial Laboratory	102115-0	Portsmouth	VA
Institute for Environmental Assessment	101249-0	Brooklyn Park	MN
International Asbestos Testing Laboratory	101165-0	Mt. Laurel	NJ
Iowa Environmental Services, Inc.	101990-0	Des Moines	IA
ITEK Enviro Services, Inc.	200032-0	South San Francisco	CA
Jimmie Ann Bolton	101735-0	Austin	TX
JLC Environmental Consultants, Inc.	101953-0	New York	NY
JMS Environmental Associates, Ltd.	102012-0	Westmont	IL
KAM Consultants	102047-0	Long Island City	NY
Kellco Services, Inc.	101331-0	Hayward	CA
Kevco Services, Inc.	101941-0	Butler	PA
Kingston Environmental Laboratory	200041-0	Lee's Summit	MO
LA Testing	200232-0	S. Pasadena	CA
Labcorp Analytics Laboratory	101004-0	Richmond	VA
Larron Laboratory	101415-0	Cape Girardeau	MO
Law Engineering and Environmental Services, Inc.	101066-0	Birmingham	AL
Law Engineering and Environmental Services, Inc.	101152-0	Houston	TX
Law Engineering and Environmental Services, Inc.	101226-0	Charlotte	NC
Law Engineering and Environmental Services, Inc.	101515-0	Tampa	FL
Law Engineering and Environmental Services, Inc.	101515-1	Miami Lakes	FL
Law Engineering and Environmental Services, Inc.	101847-0	Sterling	VA



# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Law Engineering and Environmental Services, Inc.	101973-0	Dallas	TX
Law Engineering and Environmental Services, Inc.	102035-0	Phoenix	AZ
Legend Technical Services, Inc.	102081-0	St. Paul	MN
Lockheed Martin Utility Services, Inc.	101383-0	Piketon	OH
Loflin Environmental Services	102044-0	Houston	TX
Los Angeles Harbor Department Testing Laboratory	102020-0	Wilmington	CA
Los Angeles Unified School District	101505-0	Los Angeles	CA
Louisiana Department of Environmental Quality Microanalytical Lab	102000-0	Baton Rouge	LA
m.a.c. Paran Consulting Services, Inc.	102108-0	Amelia	OH
MACS Lab, Inc.	101948-0	Santa Clara	CA
Marine Chemist Service, Inc.	101425-0	Newport News	VA
Materials Analytical Services, Inc.	101235-0	Suwanee	GA
Maxim Technologies, Inc.	101091-0	Dallas	TX
Maxim Technologies, Inc.	101091-1	Houston	TX
Maxim Technologies, Inc.	101292-0	Billings	MT
McCall and Spero Environmental, Inc.	101895-0	Louisville	KY
McKee Environmental Health, Inc.	101135-0	Friendswood	TX
Metropolitan Environmental Testing Services dba METS Laboratories	200165-0	Waldorf	MD
Micro Air of Texas, Inc.	102008-0	Houston	TX
Micro Air, Inc.	101221-0	Indianapolis	IN
Micro Analytical Laboratories, Inc.	101151-0	Gainesville	FL
Micro Analytical Laboratories, Inc.	101872-0	Emeryville	CA
Micro Analytical Laboratories, Inc.	200054-0	San Francisco	CA
Micro Analytical, Inc.	101247-0	Milwaukee	WI
Microbac Laboratories, Inc.	101035-0	Erie	PA
Micron Environmental Labs	200294-0	Arcadia	CA
Microscopic Analysis, Inc.	101037-0	St. Louis	MO
Midwest Laboratories, Inc.	101894-0	Countryside	IL
Mountain Laboratories	101890-0	Spokane	WA
MRS., Analytical Laboratory, Inc.	102113-0	Louisville	KY
Muranaka Environmental Consultants, Inc.	102085-0	Honolulu	HI
Mystic Air Quality Consultants, Inc.	101282-0	Groton	CT
NASA-Lewis Research Center	200130-0	Cleveland	OH
NATEC International, Inc.	101155-0	Garden Grove	CA
National Analytical Laboratories, Inc.	102080-0	Roseville	CA
National Econ Corporation	102062-0	Tustin	CA
National Econ Corporation	200047-0	Memphis	TN
National Environmental Reference Laboratory	101593-0	Denver	CO
New York Testing Laboratories, Inc.	101332-0	Bay Shore	NY
Niche Analysis, Inc.	102057-0	Mount Vernon	NY
Northeast Test Consultants	101565-0	Westbrook	ME
Northern Testing Laboratories, Inc.	101463-0	Fairbanks	AK
Northwest Envirocon, Inc.	101869-0	Vancouver	WA
Nova Consulting Group, Inc.	101545-0	Chaska	MN
NVL Laboratories, Inc.	102063-0	Seattle	WA
NY Environmental & Analytical Labs, Inc.	101967-0	Port Washington	NY

**INDEX B. LISTING BY FIELD OF ACCREDITATION - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
O'Brien & Gere Laboratories, Inc.	101343-0	Syracuse	NY
Oak Ridge National Laboratory	200228-0	Oak Ridge	TN
OCCU-TEC, Inc.	102025-0	Kansas City	MO
Occupational Health Conservation, Inc.	102050-0	Jacksonville	FL
Oklahoma Dept. of Environmental Quality-State Environmental Lab	102112-0	Oklahoma City	OK
Omni Environmental, Inc.	102061-0	Austin	TX
PA DEP Bureau of Laboratories	101323-0	Harrisburg	PA
Pace Analytical	101265-0	Indianapolis	IN
Pacific Environmental Services, Inc.	101190-0	Herndon	VA
Pacific Rim Environmental, Inc.	101631-0	Tukwila	WA
Patriot Environmental Laboratory Services	200358-0	Garden Grove	CA
PBS Environmental Building Consultants, Inc.	101910-0	Portland	OR
Philip Analytical Services	101262-0	Reading	PA
Philip Environmental Services Corp.	101192-0	Columbia	IL
Pinchin Environmental Ltd.	101270-0	Mississauga Ontario	CANADA
PMK Group, Inc.	101301-0	Kenilworth	NJ
Precision Micro-Analysis, Inc.	101656-0	Sacramento	CA
Precision Testing Laboratories, Inc.	101580-0	Moore	OK
Prezant Associates, Inc.	101886-0	Seattle	WA
ProScience Analytical Services, Inc.	200090-0	Woburn	MA
PSI	101342-0	Lawrence	KS
PSI	101350-0	Pittsburgh	PA
PSI	101755-0	New York	NY
PSI	101970-0	Brea	CA
PSI, Inc.	101070-0	Farmingdale	NY
PSI, Inc.	200042-0	New Berlin	WI
Puget Sound Naval Shipyard	101539-0	Bremerton	WA
QuanTEM Laboratories, LLC	101959-0	Oklahoma City	OK
Quest MicroAnalytics, Inc.	200249-0	Dallas	TX
R. Robinson Analytical Services, Inc.	102041-0	Pensacola	FL
Rapid Environmental Management, Inc.	101974-0	Great Neck	NY
RCM Laboratories, Inc.	101853-0	Countryside	IL
Reservoirs Environmental Services, Inc.	101896-0	Denver	CO
Reservoirs Environmental Services, Inc.	101896-1	Houston	TX
RI Analytical Laboratories, Inc.	101440-0	Warwick	RI
RJ Lee Group, Inc.	101208-0	Monroeville	PA
RJ Lee Group, Inc.	101208-2	San Leandro	CA
RJ Lee Group, Inc.	101208-3	Manassas	VA
RJ Lee Group, Inc.	101208-5	Houston	TX
Roy F. Weston, Inc.	101254-0	Auburn	AL
S&ME, Inc.	102075-0	Charlotte	NC
Safe Environment of America	102021-0	Kent	WA
Schneider Laboratories, Inc.	101150-0	Richmond	VA
Scientific Laboratories, Inc.	101904-0	Midlothian	VA
Scientific Laboratories, Inc.	101904-1	New York	NY
SCILAB BOSTON, Inc.	102079-0	East Weymouth	MA
SCILAB California, Inc.	200346-0	Carson	CA
SEAS, Inc.	101185-0	Blacksburg	VA
Severn Trent Laboratories (MA)	101005-0	N. Billerica	MA
Solar Environmental Services, Inc.	102006-0	Anchorage	AK

# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
South Carolina Department of Health & Environmental Control	101572-0	Columbia	SC
South Coast Air Quality Management District	101567-0	Diamond Bar	CA
STAT Analysis Corporation	101202-0	Chicago	IL
State of Connecticut	101237-0	Hartford	CT
Steve Moody Micro Services, Inc.	102056-0	Carrollton	TX
Sun City Analytical, Inc.	101870-0	El Paso	TX
Taylor Environmental Group, Inc.	102101-0	Floral Park	NY
TC Analytics, Inc.	101672-0	Norfolk	VA
TEC-AN, Inc.	200325-0	Oklahoma City	OK
TEM, Incorporated	101130-0	Glen Ellyn	IL
Testing Mechanics Corp.	102001-0	Seaford	NY
Testwell Laboratories, Inc./Testwell Industries, Inc.	200083-0	Ossining	NY
The Scott Lawson Group, Ltd.	101228-0	Concord	NH
TolTest, Inc.	101594-0	Toledo	OH
TRC Environmental Corporation	101424-0	Windsor	CT
Tremco, Inc. - Roofing Division, An RPM Company	101188-0	Beachwood	OH
Triad Environmental Consulting, Inc.	102073-0	Huntington	WV
U.S. Army Center for Health Promotion and Preventive Medicine	200044-0	Aberdeen Proving Ground	MD
U.S. EPA - National Enforcement Investigations Center	101703-0	Denver	CO
United Analytical Services, Inc.	101732-0	Hillside	IL
University (State) Hygienic Laboratory	101288-0	Iowa City	IA
University of Alabama Asbestos Laboratory	102005-0	Tuscaloosa	AL
Volz Environmental Services, Inc.	101269-0	Pittsburgh	PA
Waste Management Federal Services of Hanford, Inc.	101058-0	Richland	WA
Water, Earth Solutions & Technologies, Inc.	102043-0	Dallas	TX
Wausau Insurance Companies	101079-0	Wausau	WI
Western Analytical Laboratory	200037-0	Burbank	CA
White Environmental Consultants Inc.	200124-0	Anchorage	AK
White Environmental Consultants, Inc.	200350-0	Honolulu	HI
Wisconsin Occupational Health Laboratory	101109-0	Madison	WI
WKP Laboratories, Inc.	101950-0	Ossining	NY
Wonder Makers Environmental, Inc.	102065-0	Kalamazoo	MI
<b><i>Asbestos Fiber Analysis (TEM Test Method)</i></b>			
Aires Consulting Group, Inc.	101014-0	Batavia	IL
AMA Analytical Services, Inc.	101143-0	Lanham	MD
Analytica Solutions, Inc.	101086-0	Broomfield	CO
ASBESTECH	101442-0	Carmichael	CA
Asbestos TEM Laboratories, Inc.	101891-0	Berkeley	CA
ATC Associates, Inc.	101187-0	New York	NY
Batta Laboratories, Inc.	101032-0	Newark	DE
Braun Intertec Corporation	101234-0	Minneapolis	MN
Carnow, Conibear & Associates Ltd.	101039-0	Chicago	IL
Chopra-Lee, Inc.	200095-0	Grand Island	NY
Clayton Laboratory Services	101125-0	Kennesaw	GA
Crisp Analytical Laboratory	200349-0	Carrollton	TX
DataChem Laboratories	101917-0	Cincinnati	OH

# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
E. M. Analytical, Inc.	101902-0	Dania	FL
Eastern Analytical Services, Inc.	101646-0	Elmsford	NY
EMS Laboratories, Inc.	101218-0	Pasadena	CA
EMSL Analytical Mobile Laboratory	200344-0	Chicago	IL
EMSL Analytical, Inc.	101048-0	Westmont	NJ
EMSL Analytical, Inc.	101048-1	Atlanta	GA
EMSL Analytical, Inc.	101048-2	Piscataway	NJ
EMSL Analytical, Inc.	101048-3	San Mateo	CA
EMSL Analytical, Inc.	101048-4	Ann Arbor	MI
EMSL Analytical, Inc.	101048-9	New York	NY
EMSL Analytical, Inc.	101048-10	Carle Place	NY
EMSL Analytical, Inc.	101277-0	Fairfax	VA
EMSL Analytical, Inc.	102104-0	Greensboro	NC
EMSL Analytical, Inc.	102106-0	Houston	TX
EMSL Analytical, Inc.	200019-0	Seattle	WA
EMSL Analytical, Inc.	200034-0	Dallas	TX
EMSL Analytical, Inc.	200056-0	Williamsville	NY
EMSL Analytical, Inc.	200188-0	Indianapolis	IN
EMSL Analytical, Inc.	200204-0	N. Miami Beach	FL
EMSL Analytical, Inc.	200293-0	Beltsville	MD
EMSL Analytical, Inc.	200310-0	Carlstadt	NJ
EMSL Analytical, Inc.	200333-0	Elmsford	NY
EMSL Analytical, Inc.	200375-0	Baton Rouge	LA
Environmental Testing Laboratories, Inc.	101937-0	Farmingdale	NY
Fiberquant, Inc.	101031-0	Phoenix	AZ
Forensic Analytical Specialties, Inc.	101459-0	Hayward	CA
Gelles Laboratories, Inc.	101170-0	Columbus	OH
Geo-Analytical Services, Inc.	102082-0	Atlanta	GA
Hygeia Laboratories Inc.	102116-0	Sierra Madre	CA
Hygeia Laboratories, Inc.	101011-0	Woburn	MA
Hygeia Laboratories, Inc.	200335-0	Miami	FL
Hygienetics Laboratory Services	101147-0	Boston	MA
International Asbestos Testing Laboratory	101165-0	Mt. Laurel	NJ
JMS Environmental Associates, Ltd.	102012-0	Westmont	IL
KAM Consultants	102047-0	Long Island City	NY
LA Testing	200232-0	S. Pasadena	CA
Lab/Cor, Inc.	101920-0	Seattle	WA
Los Angeles Unified School District	101505-0	Los Angeles	CA
MACS Lab, Inc.	101948-0	Santa Clara	CA
Materials Analytical Services, Inc.	101235-0	Suwanee	GA
Maxim Technologies, Inc.	101091-0	Dallas	TX
McCall and Spero Environmental, Inc.	101895-0	Louisville	KY
Micro Analytical Laboratories, Inc.	101151-0	Gainesville	FL
Micro Analytical Laboratories, Inc.	101872-0	Emeryville	CA
Midwest Laboratories, Inc.	101894-0	Countryside	IL
New York Testing Laboratories, Inc.	101332-0	Bay Shore	NY
O'Brien & Gere Laboratories, Inc.	101343-0	Syracuse	NY
Pace Analytical	101265-0	Indianapolis	IN
Philip Analytical Services	101262-0	Reading	PA
ProScience Analytical Services, Inc.	200090-0	Woburn	MA
PSI	101350-0	Pittsburgh	PA
QuanTEM Laboratories, LLC	101959-0	Oklahoma City	OK



## INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Reservoirs Environmental Services, Inc.	101896-0	Denver	CO
Reservoirs Environmental Services, Inc.	101896-1	Houston	TX
RJ Lee Group, Inc.	101208-0	Monroeville	PA
RJ Lee Group, Inc.	101208-2	San Leandro	CA
RJ Lee Group, Inc.	101208-3	Manassas	VA
RJ Lee Group, Inc.	101208-5	Houston	TX
Scientific Laboratories, Inc.	101904-0	Midlothian	VA
Scientific Laboratories, Inc.	101904-1	New York	NY
SCILAB BOSTON, Inc.	102079-0	East Weymouth	MA
SCILAB California, Inc.	200346-0	Carson	CA
Severn Trent Laboratories (MA)	101005-0	N. Billerica	MA
STAT Analysis Corporation	101202-0	Chicago	IL
Steve Moody Micro Services, Inc.	102056-0	Carrollton	TX
TEM, Incorporated	101130-0	Glen Ellyn	IL
Testwell Laboratories, Inc./Testwell Industries, Inc.	200083-0	Ossining	NY
University (State) Hygienic Laboratory	101288-0	Iowa City	IA

## FASTENER & METALS GROUP

### *Fasteners & Metals*

3V Fasteners Co. Inc. Testing Laboratory	200264-0	Corona	CA
Acominas - Analysis and Testing Laboratory	200185-0	Ouro Branco MG	BRAZIL
Aerospace NYLOK - a subsidiary of the NYLOK Fastener Corporation	200271-0	Hawthorne	NJ
Aerospace Rivet Manufacturers Corp.	200266-0	Santa Fe Springs	CA
Alloy & Stainless Testing	200353-0	Virginia Beach	VA
Aoyama Fastener Laboratory	200213-0	Niwa-gun, Aichi Prefecture	JAPAN
Arden Fasteners	200187-0	Addison	IL
Asakawa Screw Co., Ltd.	200197-0	Yokohama	JAPAN
Asakawa Screw Co., Ltd. Kawawa Factory	200257-0	Yokohama	JAPAN
BarTech Inc. - Chemical Laboratory	200148-0	Johnstown	PA
BCAG Fastener Quality Test Lab Everett Site	200292-0	Seattle	WA
Belgo-Mineira Chemical Laboratory	200196-0	35.930-900 Joao Monlevade	BRAZIL
Binder Metal Products, Inc.	200321-0	Gardena	CA
Bodycote Industrial Testing, Inc.	101072-0	St. Louis	MO
California Screw Products	200183-0	Paramount	CA
Casey Products, Inc.	200278-0	Lisle	IL
CBS Fasteners, Inc.	200253-0	Anaheim	CA
Dexter Fastener Technologies, Inc.	200144-0	Dexter	MI
Durkee Testing Laboratories, Inc.	200178-0	Paramount	CA
Fabristeel Products Inc.	200329-0	Taylor	MI
Fastener Innovation Technology, Inc.	200179-0	Gardena	CA
Federal Manufacturing Corp.	200279-0	Chatsworth	CA
Fong Prean Industrial Co., Ltd.	200288-0	Kaohsiung Hsien	TAIWAN
Fuji Buhin Kogyo Kabushiki Kaisha	200203-0	Ohta Gunma	JAPAN
Fuji Component Parts USA, Inc.	200180-0	Indianapolis	IN
Fuserashi Gunma	200173-0	Gunma-Ken	JAPAN
Fwu Kuang Enterprises Co., Ltd.	200286-0	Tainan Hsien	TAIWAN
Hadd-Co Inspection Lab	200326-0	Torrance	CA
Incotec Laboratory	200339-0	Mojave	CA
Indiana Automotive Fasteners, Inc.	200150-0	Greenfield	IN
Ingersoll Fasteners	200208-0	Ingersoll Ontario	CANADA



# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Ivaco Rolling Mills, Chemistry Laboratory	200143-0	L'Orignal Ontario	CANADA
J.W. Mfg. DBA Van Petty Mfg.	200225-0	Newbury Park	CA
Kobelco Research Institute, Inc. Stock Company	200169-0	Kobe	JAPAN
Korea Testing & Research Inst. for Chemical Industry-Inchon Off.	200177-0	Inchon	KOREA
Kyowa Kogyosyo Co., Ltd. Test Laboratory	200274-0	Komatsu City, Ishikawa	JAPAN
Leland-Powell Fasteners, Inc. Fastener Testing Laboratory	200171-0	Martin	TN
M&M Manufacturing Corportation	200356-0	Chino	CA
MAC Fasteners, Inc.	200141-0	Ottawa	KS
MacLean Fasteners - QC Laboratory	200153-0	Mundelein	IL
Meidoh Laboratory	200239-0	Toyota, Aichi	JAPAN
Metallic Material Laboratory in Toyota Motor Co.	200223-0	Toyota city Aichi	JAPAN
Minebea Co., Ltd. Fujisawa Manufacturing Unit	200229-0	Fujisawa, Kanagawa	JAPAN
Modern Plating Corporation	200320-0	Freeport	IL
MQS Inspection, Inc. Magnetic Particle & Liquid Penetrant Exam.	200314-0	Santa Fe Springs	CA
Multifastener Laboratory	200267-0	Taylor	MI
Northwestern Steel and Wire Company	200224-0	Sterling	IL
NOVA Machine Products	200202-0	Middleburg Heights	OH
NSS Technologies	200184-0	Plymouth	MI
NYLOK Fastener Corporation	200272-0	Anaheim	CA
NYLOK Fastener Corporation	200273-0	Macomb	MI
NYLOK Fastener Corporation - Chicago Testing Laboratory	200275-0	Lincolnwood	IL
O & K Company Limited, Osaka Test Center	200166-0	Osaka-Shi	JAPAN
Okai Iron Works Co., Ltd.	200299-0	Izumisano Osaka	JAPAN
Okawa Laboratory	200296-0	Naka-gun, Ibaraki-ken	JAPAN
Owari Precise Products Co., Ltd.	200227-0	Nagoya	JAPAN
PB Fasteners	200139-0	Gardena	CA
Portland Bolt and Manufacturing Company, Inc. Testing Laboratory	200168-0	Portland	OR
Pratt & Whitney Materials Control Laboratory	200336-0	East Hartford	CT
Prospect Testing Labs, Inc.	200328-0	Des Plaines	IL
Protsa, S.A. de C.V.	200261-0	Mexico City	MEXICO
Republic Fastener Manufacturing	200195-0	Newbury Park	CA
Rightway Fasteners, Inc.	200210-0	Columbus	IN
Robbins Manufacturing Co., Inc.	200161-0	Fall River	MA
Rockford Bolt & Steel Co.	200255-0	Rockford	IL
Rocknel Fastener Inc.	200307-0	Rockford	IL
San Shing Hardware Works Co., Ltd. Test Laboratory	200158-0	Tainan	TAIWAN
Sannohashi Corporation	200205-0	Yashioshi, Saitama-ken	JAPAN
Saturn Fasteners, Inc.	200327-0	Burbank	CA
SNB Laboratory	200308-0	Cumberland	RI
SPS Technologies Aerospace Product Division	200298-0	Santa Ana	CA
SPS Technologies; Aerospace Fastener Group	200164-0	Jenkintown	PA

## INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
Sugiura Seisakusho Co., Ltd.	200226-0	Nishio Aichi	JAPAN
Sumitomo Metal Technology, Inc. Kokura Division	200215-0	Kitakyushu	JAPAN
Sundram Fasteners Limited (Inhouse test laboratory)	200212-0	Chennai (Madras), Tamil, Nadh	INDIA
Sundram Fasteners Limited Chemical Testing Laboratory	200256-0	Andhra Pradesh	INDIA
Super Cheng Industrial Testing Laboratory	200280-0	Kaohsiung, Kangshan	TAIWAN
The Monadnock Company	200268-0	City of Industry	CA
The Perryman Company	200128-0	Houston	PA
Topura Co., Ltd.	200181-0	Hadano Kanagawa	JAPAN
Topura Co., Ltd. Osaka	200242-0	Katano, Osaka	JAPAN
Topura Co., Ltd. Tokai	200243-0	Ogasagun, Shizuoka	JAPAN
TWN Fastener, Inc.	200194-0	Bowling Green	KY
United Steel and Fasteners Inc.	200341-0	Itasca	IL
Vermont Fasteners Manufacturing	200254-0	Swanton	VT
Vulcan Rivet and Bolt Corporation	200277-0	Birmingham	AL
Walker Bolt Manufacturing Co.	200126-0	Houston	TX
Wilson-Garner Company	200136-0	Harrison Township	MI
Wolverine Plating Corp.	200230-0	Roseville	MI
Yamaha Motor Metal Testing Laboratory Fasteners and Metals	200276-0	Iwata Shizuoka	JAPAN

## PRODUCT TESTING GROUP

### *Acoustical Testing Services*

Acoustic Systems Acoustical Research Facility	100286-0	Austin	TX
Aearo Company, E·A·RCAL Acoustical Laboratory	100374-0	Indianapolis	IN
Architectural Testing Inc.	200361-0	York	PA
Armstrong Acoustic Labs, Armstrong World Ind., Inc. Innov. Center	100228-0	Lancaster	PA
Celotex Technical Center	100417-0	St. Petersburg	FL
Dell Regulatory Test Laboratories	200052-0	Round Rock	TX
Hufcor Laboratory	100239-0	Janesville	WI
IBM Hudson Valley Acoustics Laboratory	100323-0	Poughkeepsie	NY
Industrial Acoustics Company, Inc., Aero-Acoustics Laboratory	100404-0	Bronx	NY
Johns Manville Technical Center	100425-0	Littleton	CO
Maxim Technologies, Inc.	200046-0	St. Paul	MN
Michael & Associates	100427-0	State College	PA
NGC Testing Services, National Gypsum Research Center	200291-0	Buffalo	NY
Orfield Laboratories, Inc.	200248-0	Minneapolis	MN
Owens Corning Testing Systems - Product Testing Laboratory	100109-0	Granville	OH
Ricoh Company LTD. Ohmori Acoustics Test Site	200345-0	Tokyo	JAPAN
Riverbank Acoustical Laboratories	100227-0	Geneva	IL
USG Research-Systems Evaluation Laboratory	200132-0	Libertyville	IL
Vibro-Acoustics Laboratory	100424-0	Scarborough Ontario	CANADA

**INDEX B. LISTING BY FIELD OF ACCREDITATION - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>
Western Electro-Acoustic Lab., Inc.	100256-0	Santa Monica	CA
<b><i>Carpet and Carpet Cushion</i></b>			
American Carpet Laboratories, Inc.	100139-0	Ringgold	GA
Beaulieu of America - Carpet Testing Lab	100190-0	Dalton	GA
Bentley Testing Laboratory	100288-0	City of Industry	CA
Commercial Testing Company	100120-0	Dalton	GA
Hollytex Carpet Mills, Inc.	100247-0	Anadarko	OK
Independent Textile Testing Service, Inc.	100166-0	Dalton	GA
Mohawk Industries, Inc.- Lyerly Plant	100156-0	Lyerly	GA
Professional Testing Laboratory, Inc.	100297-0	Dalton	GA
Queen Carpet Test Laboratory	100429-0	Dalton	GA
Shaw Industries, Inc., Central Laboratory Operations	100193-0	Dalton	GA
TSi, Testing Services, Inc.	100108-0	Dalton	GA
Vartest Laboratories, Inc.	200027-0	New York	NY
World Carpets, Inc.	100197-0	Dalton	GA
<b><i>Commercial Products Testing</i></b>			
Canadian Standards Association	100322-0	Etobicoke Ontario	CANADA
D/L Laboratories	100252-0	New York	NY
Dodge-Regupol, Inc. Laboratory	200030-0	Lancaster	PA
MacMillan Bloedel Packaging, Inc., Combined Board Test Lab	100259-0	Pine Hill	AL
NAHB Research Center, Inc.	100104-0	Upper Marlboro	MD
SGS U.S. Testing Company, Inc.	100416-0	Tulsa	OK
Willamette Industries, Inc. West Coast Development Lab	200045-0	Wilsonville	OR
<b><i>Construction Materials Testing</i></b>			
American Testing Laboratories, Inc.	100146-0	Lancaster	PA
ASC geoscience, inc.	200316-0	Lakeland	FL
City of San Jose, Materials Testing Laboratory	100325-0	San Jose	CA
Eastern Materials Testing Lab a division of Jaworski Geotech	100315-0	New Britain	CT
Fairfield Testing Laboratory, Inc.	100317-0	Stamford	CT
Fairway Testing Company, Inc.	100340-0	Stony Point	NY
Independent Materials Testing Laboratories, Inc.	100316-0	Plainville	CT
Inland Foundation Engineering, Inc.	100406-0	San Jacinto	CA
Materials Testing, Inc.	100320-0	Milford	CT
PSI, Inc.	100319-0	North Haven	CT
Special Testing Laboratories, Inc.	100308-0	Bethel	CT
STS Consultants, Ltd.	100191-0	Vernon Hills	IL
Test-Con Incorporated	200018-0	Danbury	CT
Testwell Laboratories, Inc./Testwell Industries, Inc.	200083-0	Ossining	NY
Tri-State Materials Testing Lab, Inc.	200010-0	Newington	CT
W.R. Grace & Co.	200258-0	Cambridge	MA

# INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
<i>Efficiency of Electric Motors</i>			
Advanced Energy, Industrial Energy Laboratory	200081-0	Raleigh	NC
GE Owensboro Test Laboratory	200305-0	Owensboro	KY
MagneTek (Lexington) Engineering Laboratory	200053-0	Lexington	TN
Marathon Electric - Wausau Engineering Lab.	200134-0	Wausau	WI
Oak Ridge National Laboratory Electric Machinery Center	200244-0	Oak Ridge	TN
Small IAC Test Laboratory	200287-0	Peterborough	CANADA
Toshiba/Houston Test Laboratory	200088-0	Houston	TX
<i>Energy Efficient Lighting Products</i>			
Cooper Lighting - Metalux Research Laboratories	200050-0	Americus	GA
Daybrite Lighting (Genlyte Thomas Group) Photometric Laboratory	200016-0	Tupelo	MS
Duro-Test Corporation	200283-0	Clifton	NJ
GE Lighting- Engineering Support - NA	100398-0	Cleveland	OH
Hubbell Lighting Photometric Laboratory	200020-0	Christiansburg	VA
Intertek Testing Services NA Inc.	100402-0	Cortland	NY
Lithonia Testing Laboratories	200007-0	Conyers	GA
Osram Sylvania Inc., Test & Measurements Laboratory	100403-0	Beverly	MA
Philips Lighting Corporate Calibration & Standards Laboratory	100399-0	Fairmont	WV
Thomas Lighting Accent Division Photometric Laboratory	200155-0	Los Angeles	CA
<i>Thermal Insulation Materials</i>			
Celotex Technical Center	100417-0	St. Petersburg	FL
Dow Chemical N. America Foam Products Research, Prod. Perf. Lab.	100103-0	Midland	MI
Flexible Products Company	100210-0	Joliet	IL
Geoscience Ltd.	100142-0	San Diego	CA
Holometrix - Micromet	100113-0	Bedford	MA
Intertek Testing Services NA Inc.	100402-0	Cortland	NY
Intertek Testing Services NA Inc.	200031-0	Middleton	WI
Johns Manville Technical Center	100425-0	Littleton	CO
Knauf Fiber Glass Research Laboratory	100248-0	Shelbyville	IN
Levecque Technical Center	100101-0	Blue Bell	PA
Maxim Technologies, Inc.	200046-0	St. Paul	MN
NAHB Research Center, Inc.	100104-0	Upper Marlboro	MD
Owens Corning Testing Systems - Product Testing Laboratory	100109-0	Granville	OH
R & D Services, Inc.	200265-0	Cookeville	TN
Resources, Applications, Designs & Control, Inc. (RADCO)	100261-0	Long Beach	CA
SGS U.S. Testing Company, Inc.	100416-0	Tulsa	OK
St. of California, Bur. of Home Furnishings & Thermal Insulation	100251-0	North Highlands	CA
Underwriters Laboratories Inc.	100414-0	Northbrook	IL

INDEX B. LISTING BY FIELD OF ACCREDITATION - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY
<i>Wood Based Products</i>			
APA - The Engineered Wood Association Research Center	100423-0	Tacoma	WA
Composite Panel Association (CPA)	100418-0	Gaithersburg	MD
PFS Corporation	100421-0	Madison	WI
Professional Service Industries, Inc., Pittsburgh Test. Lab. Div.	100430-0	Eugene	OR
Timberco, Inc.- dba TECO	100420-0	Eugene	OR





THE



OF THE  
SOUTH  
WEST



# INDEX C. LISTING BY STATE/COUNTRY

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
<b>AK</b>				
Northern Testing Laboratories, Inc.	101463-0	Fairbanks	AK	PLM
Solar Environmental Services, Inc.	102006-0	Anchorage	AK	PLM
White Environmental Consultants Inc.	200124-0	Anchorage	AK	PLM
<b>AL</b>				
Law Engineering and Environmental Services, Inc.	101066-0	Birmingham	AL	PLM
MacMillan Bloedel Packaging, Inc., Combined Board Test Lab	100259-0	Pine Hill	AL	Commercial
Roy F. Weston, Inc.	101254-0	Auburn	AL	PLM
U.S. Army Primary Standards Laboratory	105004-0	Redstone Arsenal	AL	Calibration
U.S. Army Radiation Standards & Dosimetry Laboratory	100539-0	Redstone Arsenal	AL	Dosimetry
University of Alabama Asbestos Laboratory	102005-0	Tuscaloosa	AL	PLM
Vulcan Rivet and Bolt Corporation	200277-0	Birmingham	AL	Fasteners
<b>AR</b>				
Environmental Enterprise Group(EEG), Inc.	101587-0	Russellville	AR	PLM
<b>AZ</b>				
A.E.S.L.	200303-0	Tempe	AZ	PLM
Arizona Public Service Co., Palo Verde Nuclear Generating Station	100536-0	Tonopah	AZ	Dosimetry
Asbestos Analytical	101771-0	Tucson	AZ	PLM
Continental Envirotech, Inc.	200080-0	Mesa	AZ	PLM
Environmental Management Consultants, Inc.	101926-0	Scottsdale	AZ	PLM
Fiberquant, Inc.	101031-0	Phoenix	AZ	PLM
Fiberquant, Inc.	101031-0	Phoenix	AZ	TEM
Law Engineering and Environmental Services, Inc.	102035-0	Phoenix	AZ	PLM
Motorola SSTG EMC/TEMPEST Laboratory	100405-0	Scottsdale	AZ	FCC
Motorola SSTG EMC/TEMPEST Laboratory	100405-0	Scottsdale	AZ	MIL-STD-462
<b>CA</b>				
3V Fasteners Co. Inc. Testing Laboratory	200264-0	Corona	CA	Fasteners
Aerospace Rivet Manufacturers Corp.	200266-0	Santa Fe Springs	CA	Fasteners
Analytical Labs San Francisco, Inc.	101909-0	San Francisco	CA	PLM
Apple Computer, Inc., EMC Compliance Laboratory	200071-0	Cupertino	CA	FCC
ASBESTECH	101442-0	Carmichael	CA	PLM
ASBESTECH	101442-0	Carmichael	CA	TEM
Asbestos TEM Laboratories, Inc.	101891-0	Berkeley	CA	PLM
Asbestos TEM Laboratories, Inc.	101891-0	Berkeley	CA	TEM
AST Research, Inc. EMC Lab.	200135-0	Irvine	CA	FCC
Bay Area Air Quality Management District	102090-0	San Francisco	CA	PLM
Bay Area Compliance Laboratory, Corp.	200167-0	Sunnyvale	CA	FCC
Bentley Testing Laboratory	100288-0	City of Industry	CA	Carpet
Binder Metal Products, Inc.	200321-0	Gardena	CA	Fasteners
California Screw Products	200183-0	Paramount	CA	Fasteners
CAMCO Lab	101803-0	Fontana	CA	PLM
CBS Fasteners, Inc.	200253-0	Anaheim	CA	Fasteners

**INDEX C. LISTING BY STATE/COUNTRY - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>	<b>FIELD</b>
Cisco Systems, Inc.	200114-0	San Jose	CA	FCC
City of Los Angeles Department of Water and Power	101111-0	Los Angeles	CA	PLM
City of San Jose, Materials Testing Laboratory	100325-0	San Jose	CA	Construction
Clark Seif Clark, Inc.	200324-0	Chatsworth	CA	PLM
Compatible Electronics, Inc.	200063-0	Agoura	CA	FCC
Compliance Eng. Svces, Inc., Compliance Certification Services	200065-0	Sunnyvale	CA	FCC
Compliance Engineering Services, Inc. - Taiwan	200064-0	Sunnyvale	CA	FCC
Concord Analysis, Inc.	101884-0	Chatsworth	CA	PLM
CT&E Environmental Services Inc.	200067-0	San Diego	CA	PLM
CTL Environmental Services	101216-0	Harbor City	CA	PLM
Department of Environmental Health Industrial Hygiene Laboratory	101530-0	San Diego	CA	PLM
Design for Health, Inc.	101864-0	San Diego	CA	PLM
Durkee Testing Laboratories, Inc.	200178-0	Paramount	CA	Fasteners
Electro Magnetic Test, Inc.	200147-0	Mountain View	CA	FCC
Electronic Compliance Laboratories, Inc.	200089-0	Sunnyvale	CA	FCC
Elliott Laboratories, Inc.	200069-0	Sunnyvale	CA	FCC
EMC Compliance Mgmt Group, dba Turntech Scientific & Instr., Inc.	200068-0	Mountain View	CA	FCC
EMCE Engineering, Inc.	200092-0	Fremont	CA	FCC
EMS Laboratories, Inc.	101218-0	Pasadena	CA	PLM
EMS Laboratories, Inc.	101218-0	Pasadena	CA	TEM
EMSL Analytical, Inc.	101048-3	San Mateo	CA	PLM
EMSL Analytical, Inc.	101048-3	San Mateo	CA	TEM
ENCORP	200013-0	El Segundo	CA	PLM
Fastener Innovation Technology, Inc.	200179-0	Gardena	CA	Fasteners
Federal Manufacturing Corp.	200279-0	Chatsworth	CA	Fasteners
Forensic Analytical Specialties, Inc.	101459-0	Hayward	CA	PLM
Forensic Analytical Specialties, Inc.	101459-0	Hayward	CA	TEM
Forensic Analytical Specialties, Inc.	101459-1	Rancho Domingues	CA	PLM
Garwood Laboratories, Inc.	200119-0	Placentia	CA	FCC
Geoscience Ltd.	100142-0	San Diego	CA	Thermal Insl.
Hadd-Co Inspection Lab	200326-0	Torrance	CA	Fasteners
Health Science Associates	101384-0	Los Alamitos	CA	PLM
Hewlett Packard, Product Test Lab, San Diego	200138-0	San Diego	CA	FCC
Hi-Tech Environmental and Laboratory Services	102013-0	Cypress	CA	PLM
Hygeia Laboratories Inc.	102116-0	Sierra Madre	CA	PLM
Hygeia Laboratories Inc.	102116-0	Sierra Madre	CA	TEM
ICN Dosimetry Service, Div. of ICN Biomedicals, Inc.	100555-0	Costa Mesa	CA	Dosimetry
Incotcc Laboratory	200339-0	Mojave	CA	Fasteners
InfoGard Laboratories, Inc.	100432-0	San Luis Obispo	CA	Cryptographic
Inland Foundation Engineering, Inc.	100406-0	San Jacinto	CA	Construction
Intertek Testing Services	200201-0	Menlo Park	CA	FCC
Intertek Testing Services NA Inc.	200297-0	Laguna Niguel	CA	FCC
ITEK Enviro Services, Inc.	200032-0	South San Francisco	CA	PLM



**INDEX C. LISTING BY STATE/COUNTRY - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>	<b>FIELD</b>
J.W. Mfg. DBA Van Petty Mfg.	200225-0	Newbury Park	CA	Fasteners
Kellco Services, Inc.	101331-0	Hayward	CA	PLM
LA Testing	200232-0	S. Pasadena	CA	PLM
LA Testing	200232-0	S. Pasadena	CA	TEM
Lockheed Martin Technical Operations	105017-0	Sunnyvale	CA	Calibration
Los Angeles Harbor Department Testing Laboratory	102020-0	Wilmington	CA	PLM
Los Angeles Unified School District	101505-0	Los Angeles	CA	PLM
Los Angeles Unified School District	101505-0	Los Angeles	CA	TEM
M&M Manufacturing Corportation	200356-0	Chino	CA	Fasteners
MACS Lab, Inc.	101948-0	Santa Clara	CA	PLM
MACS Lab, Inc.	101948-0	Santa Clara	CA	TEM
Micro Analytical Laboratories, Inc.	101872-0	Emeryville	CA	PLM
Micro Analytical Laboratories, Inc.	101872-0	Emeryville	CA	TEM
Micro Analytical Laboratories, Inc.	200054-0	San Francisco	CA	PLM
Micron Environmental Labs	200294-0	Arcadia	CA	PLM
MQS Inspection, Inc. Magnetic Particle & Liquid Penetrant Exam.	200314-0	Santa Fe Springs	CA	Fasteners
NATEC International, Inc.	101155-0	Garden Grove	CA	PLM
National Analytical Laboratories, Inc.	102080-0	Roseville	CA	PLM
National Econ Corporation	102062-0	Tustin	CA	PLM
NAWCWPNS EMI Lab, China Lake/Pt. Mugu, CA	200199-0	China Lake	CA	MIL-STD-462
Nemko EESI, Inc.	200116-0	San Diego	CA	FCC
Northern Telecom Inc.	100411-0	Santa Clara	CA	FCC
NYLOK Fastener Corporation	200272-0	Anaheim	CA	Fasteners
Pacific Gas & Electric Company, Diablo Canyon Nuclear Power Plant	100537-0	Avila Beach	CA	Dosimetry
Patriot Environmental Laboratory Services	200358-0	Garden Grove	CA	PLM
PB Fasteners	200139-0	Gardena	CA	Fasteners
PDE Laboratories	200082-0	San Clemente	CA	FCC
Precision Micro-Analysis, Inc.	101656-0	Sacramento	CA	PLM
PSI	101970-0	Brea	CA	PLM
Radiation Detection Company	100512-0	Sunnyvale	CA	Dosimetry
Radiation Technology, Inc.	200086-0	San Jose	CA	FCC
Republic Fastener Manufacturing	200195-0	Newbury Park	CA	Fasteners
Resources, Applications, Designs & Control, Inc. (RADCO)	100261-0	Long Beach	CA	Thermal Insl.
RJ Lee Group, Inc.	101208-2	San Leandro	CA	PLM
RJ Lee Group, Inc.	101208-2	San Leandro	CA	TEM
Rockford Engineering Services, Inc.	200172-0	Sunol	CA	FCC
Saturn Fasteners, Inc.	200327-0	Burbank	CA	Fasteners
SCILAB California, Inc.	200346-0	Carson	CA	PLM
SCILAB California, Inc.	200346-0	Carson	CA	TEM
SGI EMC Laboratories	200233-0	Mountain View	CA	FCC
Sony Electronics Inc. Product Quality Division EMC Group	200312-0	San Diego	CA	FCC
South Coast Air Quality Management District	101567-0	Diamond Bar	CA	PLM
Southern California Edison	100506-0	San Clemente	CA	Dosimetry
Southern California Edison Company	105014-0	Westminster	CA	Calibration
SPS Technologies Aerospace Product Division	200298-0	Santa Ana	CA	Fasteners

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
St. of California, Bur. of Home Furnishings & Thermal Insulation	100251-0	North Highlands	CA	Thermal Insl.
Sun Microsystems, Inc. EMC Testing	200363-0	Palo Alto	CA	FCC
The Monadnock Company	200268-0	City of Industry	CA	Fasteners
Thomas Lighting Accent Division Photometric Laboratory	200155-0	Los Angeles	CA	Lighting
TUV Product Service, Inc.	100268-0	San Diego	CA	FCC
TUV Product Service, Inc.	100268-0	San Diego	CA	MIL-STD-462
Underwriters Laboratories	200252-0	Santa Clara	CA	FCC
Universal Compliance Laboratories	200117-0	San Jose	CA	FCC
Western Analytical Laboratory	200037-0	Burbank	CA	PLM
Western Electro-Acoustic Lab., Inc.	100256-0	Santa Monica	CA	Acoustics

## CO

Alpine Consulting, Inc.	102089-0	Colorado Springs	CO	PLM
Analytica Solutions, Inc.	101086-0	Broomfield	CO	PLM
Analytica Solutions, Inc.	101086-0	Broomfield	CO	TEM
ATC Environmental, Inc.	102031-0	Englewood	CO	PLM
Compaq Computer Corp. EMC Test Facility	200078-0	Colorado Springs	CO	FCC
Criterion Technology	100396-0	Rollinsville	CO	FCC
DCM Science Laboratory, Inc.	101258-0	Wheat Ridge	CO	PLM
Denver Instrument Co. Weight Lab	200106-0	Arvada	CO	Calibration
FRS Geotech, Inc.	102078-0	Denver	CO	PLM
Johns Manville Technical Center	100425-0	Littleton	CO	Acoustics
Johns Manville Technical Center	100425-0	Littleton	CO	Thermal Insl.
National Environmental Reference Laboratory	101593-0	Denver	CO	PLM
Reservoirs Environmental Services, Inc.	101896-0	Denver	CO	PLM
Reservoirs Environmental Services, Inc.	101896-0	Denver	CO	TEM
Storagtek Open Area Test Site	200251-0	Louisville	CO	FCC
TUV Product Service, Inc.	100271-1	Boulder	CO	FCC
U.S. EPA - National Enforcement Investigations Center	101703-0	Denver	CO	PLM

## CT

ChemScope, Inc.	101061-0	North Haven	CT	PLM
Combustion Engineering, Inc.	100563-0	Windsor	CT	Dosimetry
Eastern Materials Testing Lab a division of Jaworski Geotech	100315-0	New Britain	CT	Construction
Electric Boat Corp/A General Dynamics Co. Radiological Ctrl. Dept	100560-0	Groton	CT	Dosimetry
EnviroMed Services, Inc.	101514-0	New Haven	CT	PLM
Fairfield Testing Laboratory, Inc.	100317-0	Stamford	CT	Construction
HYGENIX, INC.	101199-0	Stamford	CT	PLM
Independent Materials Testing Laboratories, Inc.	100316-0	Plainville	CT	Construction
Materials Testing, Inc.	100320-0	Milford	CT	Construction
Mystic Air Quality Consultants, Inc.	101282-0	Groton	CT	PLM
Northeast Utilities Dosimetry Laboratory	100540-0	Newington	CT	Dosimetry
Pratt & Whitney Materials Control Laboratory	200336-0	East Hartford	CT	Fasteners
PSI, Inc.	100319-0	North Haven	CT	Construction
Special Testing Laboratories, Inc.	100308-0	Bethel	CT	Construction

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
State of Connecticut	101237-0	Hartford	CT	PLM
Test-Con Incorporated	200018-0	Danbury	CT	Construction
TRC Environmental Corporation	101424-0	Windsor	CT	PLM
Tri-State Materials Testing Lab, Inc.	200010-0	Newington	CT	Construction
TUV Rheinland of North America, Inc.	200111-0	Newtown	CT	FCC
<b>DE</b>				
Batta Laboratories, Inc.	101032-0	Newark	DE	PLM
Batta Laboratories, Inc.	101032-0	Newark	DE	TEM
Environmental Testing, Inc.	101848-0	Middletown	DE	PLM
<b>FL</b>				
Advanced Industrial Hygiene Services, Inc.	101006-0	Miami	FL	PLM
American Asbestos Laboratories, Inc.	101775-0	Miami	FL	PLM
Apollo Environmental, Inc.	101871-0	Gibsonton	FL	PLM
ASC geoscience, inc.	200316-0	Lakeland	FL	Construction
Celotex Technical Center	100417-0	St. Petersburg	FL	Acoustics
Celotex Technical Center	100417-0	St. Petersburg	FL	Thermal Insul.
Comprehensive Health Services-Environmental Health PLM Laboratory	101759-0	Kennedy Space Center	FL	PLM
Dove Environmental Corporation	102053-0	Miami	FL	PLM
E. M. Analytical, Inc.	101902-0	Dania	FL	TEM
EMSL Analytical, Inc.	200204-0	N. Miami Beach	FL	PLM
EMSL Analytical, Inc.	200204-0	N. Miami Beach	FL	TEM
Florida Power & Light Company	100544-0	Juno Beach	FL	Dosimetry
GLE Associates, Inc.	102003-0	Tampa	FL	PLM
Henderson/Longfellow Associates, Inc.	102077-0	St. Petersburg	FL	PLM
Hygeia Laboratories, Inc.	200335-0	Miami	FL	PLM
Hygeia Laboratories, Inc.	200335-0	Miami	FL	TEM
Law Engineering and Environmental Services, Inc.	101515-0	Tampa	FL	PLM
Law Engineering and Environmental Services, Inc.	101515-1	Miami Lakes	FL	PLM
Micro Analytical Laboratories, Inc.	101151-0	Gainesville	FL	PLM
Micro Analytical Laboratories, Inc.	101151-0	Gainesville	FL	TEM
Motorola PPG Compliance Laboratory	200318-0	Boynton Beach	FL	FCC
Occupational Health Conservation, Inc.	102050-0	Jacksonville	FL	PLM
Paradyne Corporation	200125-0	Largo	FL	FCC
PRIMES (Preflight Integration of Munitions & Electronic Systems)	100422-0	Eglin Air Force Base	FL	MIL-STD-462
Product Safety Engineering, Inc.	200074-0	Dade City	FL	FCC
R. Robinson Analytical Services, Inc.	102041-0	Pensacola	FL	PLM
<b>GA</b>				
American Carpet Laboratories, Inc.	100139-0	Ringgold	GA	Carpet
Analytical Environmental Services, Inc.	102033-0	Atlanta	GA	PLM
Beaulieu of America - Carpet Testing Lab	100190-0	Dalton	GA	Carpet
Cape Environmental Management, Inc.	102111-0	Atlanta	GA	PLM
Clayton Laboratory Services	101125-0	Kennesaw	GA	PLM
Clayton Laboratory Services	101125-0	Kennesaw	GA	TEM
Commercial Testing Company	100120-0	Dalton	GA	Carpet
Cooper Lighting - Metalux Research	200050-0	Americus	GA	Lighting

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
<b>Laboratories</b>				
EMSL Analytical, Inc.	101048-1	Atlanta	GA	PLM
EMSL Analytical, Inc.	101048-1	Atlanta	GA	TEM
Geo-Analytical Services, Inc.	102082-0	Atlanta	GA	PLM
Geo-Analytical Services, Inc.	102082-0	Atlanta	GA	TEM
Georgia Power Company/Enviro. Affairs, Enviro. Lab-Dosimetry	100551-0	Smyrna	GA	Dosimetry
Hayes Microcomputer Products, Inc.	200103-0	Atlanta	GA	FCC
Hygeia Laboratories, Inc.	102087-0	Marietta	GA	PLM
Independent Textile Testing Service, Inc.	100166-0	Dalton	GA	Carpet
Intertek Testing Services NA Inc.	100409-0	Norcross	GA	FCC
Lithonia Testing Laboratories	200007-0	Conyers	GA	Lighting
Materials Analytical Services, Inc.	101235-0	Suwanee	GA	PLM
Materials Analytical Services, Inc.	101235-0	Suwanee	GA	TEM
Mohawk Industries, Inc.- Lyerly Plant	100156-0	Lyerly	GA	Carpet
Professional Testing Laboratory, Inc.	100297-0	Dalton	GA	Carpet
Queen Carpet Test Laboratory	100429-0	Dalton	GA	Carpet
Shaw Industries, Inc., Central Laboratory Operations	100193-0	Dalton	GA	Carpet
TSi, Testing Services, Inc.	100108-0	Dalton	GA	Carpet
United States Technologies, Inc.	200162-0	Alpharetta	GA	FCC
World Carpets, Inc.	100197-0	Dalton	GA	Carpet
<b>HI</b>				
EnvironMETeo Services Inc.	101807-0	Waipahu	HI	PLM
Muranaka Environmental Consultants, Inc.	102085-0	Honolulu	HI	PLM
White Environmental Consultants, Inc.	200350-0	Honolulu	HI	PLM
<b>IA</b>				
Intermec Technologies Corporation, Norand Mobile System Division	100269-0	Cedar Rapids	IA	FCC
Iowa Environmental Services, Inc.	101990-0	Des Moines	IA	PLM
Liberty Labs, Inc.	200123-0	Kimballton	IA	Calibration
University (State) Hygienic Laboratory	101288-0	Iowa City	IA	PLM
University (State) Hygienic Laboratory	101288-0	Iowa City	IA	TEM
<b>ID</b>				
Lockheed Martin Idaho Tech. Co., Standards and Calibration Lab.	200115-0	Idaho Falls	ID	Calibration
<b>IL</b>				
Aires Consulting Group, Inc.	101014-0	Batavia	IL	PLM
Aires Consulting Group, Inc.	101014-0	Batavia	IL	TEM
Analyticalab	101727-0	Willow Springs	IL	PLM
Arden Fasteners	200187-0	Addison	IL	Fasteners
Beling Consultants, Inc.	101356-0	Moline	IL	PLM
Carnow, Conibear & Associates Ltd.	101039-0	Chicago	IL	PLM
Carnow, Conibear & Associates Ltd.	101039-0	Chicago	IL	TEM
Casey Products, Inc.	200278-0	Lisle	IL	Fasteners
Clinton Power Station	100570-0	Clinton	IL	Dosimetry
ComEd - TLD Processing Lab - CTEAM Facility	100541-0	Bolingbrook	IL	Dosimetry
D.L.S. Electronic Systems, Inc.	100276-0	Wheeling	IL	FCC



# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
Elite Electronic Engineering Company	100278-0	Downers Grove	IL	FCC
Elite Electronic Engineering Company	100278-0	Downers Grove	IL	MIL-STD-462
EMSL Analytical Mobile Laboratory	200344-0	Chicago	IL	PLM
EMSL Analytical Mobile Laboratory	200344-0	Chicago	IL	TEM
Flexible Products Company	100210-0	Joliet	IL	Thermal Insl.
Hygieneering, Inc.	101997-0	Willowbrook	IL	PLM
JMS Environmental Associates, Ltd.	102012-0	Westmont	IL	PLM
JMS Environmental Associates, Ltd.	102012-0	Westmont	IL	TEM
Landauer, Inc.	100518-0	Glenwood	IL	Dosimetry
MacLean Fasteners - QC Laboratory	200153-0	Mundelein	IL	Fasteners
Midwest Laboratories, Inc.	101894-0	Countryside	IL	PLM
Midwest Laboratories, Inc.	101894-0	Countryside	IL	TEM
Modern Plating Corporation	200320-0	Freeport	IL	Fasteners
Northwestern Steel and Wire Company	200224-0	Sterling	IL	Fasteners
NYLOK Fastener Corporation - Chicago Testing Laboratory	200275-0	Lincolnwood	IL	Fasteners
Philip Environmental Services Corp.	101192-0	Columbia	IL	PLM
Prospect Testing Labs, Inc.	200328-0	Des Plaines	IL	Fasteners
RCM Laboratories, Inc.	101853-0	Countryside	IL	PLM
Riverbank Acoustical Laboratories	100227-0	Geneva	IL	Acoustics
Rockford Bolt & Steel Co.	200255-0	Rockford	IL	Fasteners
Rocknel Fastener Inc.	200307-0	Rockford	IL	Fasteners
STAT Analysis Corporation	101202-0	Chicago	IL	PLM
STAT Analysis Corporation	101202-0	Chicago	IL	TEM
STS Consultants, Ltd.	100191-0	Vernon Hills	IL	Construction
TEM, Incorporated	101130-0	Glen Ellyn	IL	PLM
TEM, Incorporated	101130-0	Glen Ellyn	IL	TEM
Underwriters Laboratories Inc.	100414-0	Northbrook	IL	FCC
Underwriters Laboratories Inc.	100414-0	Northbrook	IL	Thermal Insl.
United Analytical Services, Inc.	101732-0	Hillside	IL	PLM
United Steel and Fasteners Inc.	200341-0	Itasca	IL	Fasteners
USG Research-Systems Evaluation Laboratory	200132-0	Libertyville	IL	Acoustics

## IN

ACM Environmental, Inc.	101977-0	South Bend	IN	PLM
Aearo Company, E-A-R-CAL Acoustical Laboratory	100374-0	Indianapolis	IN	Acoustics
EMSL Analytical, Inc.	200188-0	Indianapolis	IN	PLM
EMSL Analytical, Inc.	200188-0	Indianapolis	IN	TEM
ESG Laboratories	102029-0	Indianapolis	IN	PLM
Fuji Component Parts USA, Inc.	200180-0	Indianapolis	IN	Fasteners
Indiana Automotive Fasteners, Inc.	200150-0	Greenfield	IN	Fasteners
Knauf Fiber Glass Research Laboratory	100248-0	Shelbyville	IN	Thermal Insl.
Micro Air, Inc.	101221-0	Indianapolis	IN	PLM
Pace Analytical	101265-0	Indianapolis	IN	PLM
Pace Analytical	101265-0	Indianapolis	IN	TEM
Raytheon Technical Services Co. EMI Laboratory	200317-0	Indianapolis	IN	MIL-STD-462
Rightway Fasteners, Inc.	200210-0	Columbus	IN	Fasteners



# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
<b>KS</b>				
Asbestos Consulting & Testing (ACT)	101649-0	Lenexa	KS	PLM
MAC Fasteners, Inc.	200141-0	Ottawa	KS	Fasteners
PSI	101342-0	Lawrence	KS	PLM
Rogers Labs, Inc.	200087-0	Louisburg	KS	FCC
<b>KY</b>				
Analytical Industries, Inc.	101855-0	Paducah	KY	PLM
GE Owensboro Test Laboratory	200305-0	Owensboro	KY	Electric Motors
Guardian Laboratories	101399-0	Louisville	KY	PLM
Intertek Testing Services NA Inc.	100274-0	Lexington	KY	FCC
McCall and Spero Environmental, Inc.	101895-0	Louisville	KY	PLM
McCall and Spero Environmental, Inc.	101895-0	Louisville	KY	TEM
MRS., Analytical Laboratory, Inc.	102113-0	Louisville	KY	PLM
TWN Fastener, Inc.	200194-0	Bowling Green	KY	Fasteners
<b>LA</b>				
EMSL Analytical, Inc.	200375-0	Baton Rouge	LA	PLM
EMSL Analytical, Inc.	200375-0	Baton Rouge	LA	TEM
Enterger Operations, Inc.	100535-0	Taft	LA	Dosimetry
Louisiana Department of Environmental Quality Microanalytical Lab	102000-0	Baton Rouge	LA	PLM
<b>MA</b>				
Acton Environmental Testing, dba National Technical Systems	100347-0	Boxborough	MA	MIL-STD-462
Chomerics Test Services (CTS)	100296-0	Woburn	MA	FCC
Covino Environmental Associates, Inc.	101781-0	Woburn	MA	PLM
Curtis-Straus LLC	200057-0	Littleton	MA	FCC
Data General Corporation	100339-0	Westboro	MA	FCC
Digital Regulatory Engineering and Testing Services	100413-0	Marlboro	MA	FCC
Duke Engineering and Services Environmental Laboratory	100524-0	Bolton	MA	Dosimetry
Holometrix - Micromet	100113-0	Bedford	MA	Thermal Insl.
Hub Testing Laboratory, Inc.	101045-0	Waltham	MA	PLM
Hygeia Laboratories, Inc.	101011-0	Woburn	MA	PLM
Hygeia Laboratories, Inc.	101011-0	Woburn	MA	TEM
Hygienetics Laboratory Services	101147-0	Boston	MA	PLM
Hygienetics Laboratory Services	101147-0	Boston	MA	TEM
Instron Force Calibration Laboratory	105023-0	Canton	MA	Calibration
Integrity Design & Test Services, Inc.	200004-0	Littleton	MA	FCC
Intertek Testing Services NA Inc.	100270-0	Boxborough	MA	FCC
Intertek Testing Services NA Inc.	100270-0	Boxborough	MA	MIL-STD-462
Motorola Product Quality Assurance Laboratory	200005-0	Mansfield	MA	FCC
Osram Sylvania Inc., Test & Measurements Laboratory	100403-0	Beverly	MA	Lighting
ProScience Analytical Services, Inc.	200090-0	Woburn	MA	PLM
ProScience Analytical Services, Inc.	200090-0	Woburn	MA	TEM
Quest Engineering Solutions, Inc.	200036-0	N. Billerica	MA	FCC
Robbins Manufacturing Co., Inc.	200161-0	Fall River	MA	Fasteners

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
SCILAB BOSTON, Inc.	102079-0	East Weymouth	MA	PLM
SCILAB BOSTON, Inc.	102079-0	East Weymouth	MA	TEM
Severn Trent Laboratories (MA)	101005-0	N. Billerica	MA	PLM
Severn Trent Laboratories (MA)	101005-0	N. Billerica	MA	TEM
Test Site Services, Inc.	100419-0	Marlboro	MA	FCC
W.R. Grace & Co.	200258-0	Cambridge	MA	Construction

## MD

AMA Analytical Services, Inc.	101143-0	Lanham	MD	PLM
AMA Analytical Services, Inc.	101143-0	Lanham	MD	TEM
ATC Associates Inc.	200250-0	Columbia	MD	PLM
Baltimore Gas & Electric Company	100501-0	Lusby	MD	Dosimetry
CDRH X-Ray Calibration Laboratory	105018-0	Rockville	MD	Calibration
Composite Panel Association (CPA)	100418-0	Gaithersburg	MD	Wood Prod.
DHMH-Air Quality Laboratory	101523-0	Baltimore	MD	PLM
EMSL Analytical, Inc.	200293-0	Beltsville	MD	PLM
EMSL Analytical, Inc.	200293-0	Beltsville	MD	TEM
MET Laboratories, Inc.	100273-0	Baltimore	MD	FCC
Metropolitan Environmental Testing Services dba METS Laboratories	200165-0	Waldorf	MD	PLM
NAHB Research Center, Inc.	100104-0	Upper Marlboro	MD	Commercial
NAHB Research Center, Inc.	100104-0	Upper Marlboro	MD	Thermal Insl.
Naval Dosimetry Center	100504-0	Bethesda	MD	Dosimetry
NAWC AD 5.1.7.3. EMI Lab	100408-0	Patuxent River	MD	MIL-STD-462
PCTEST Engineering Laboratory, Inc.	100431-0	Columbia	MD	FCC
U.S. Army Center for Health Promotion and Preventive Medicine	200044-0	Aberdeen Proving Ground	MD	PLM
Washington Laboratories, Ltd.	200066-0	Gaithersburg	MD	FCC
Windermere Info. Tech. Sys.	200084-0	Annapolis	MD	FCC
Military/Commercial Compliance Lab.				

## ME

Northeast Test Consultants	101565-0	Westbrook	ME	PLM
----------------------------	----------	-----------	----	-----

## MI

AAC Trinity, Inc.	101168-0	Farmington Hills	MI	PLM
AHD	200129-0	Dowagiac	MI	FCC
Apex Research Laboratory	102118-0	Whitmore Lake	MI	PLM
Detroit Edison, Fermi 2 Dosimetry Laboratory	100529-0	Newport	MI	Dosimetry
Dexter Fastener Technologies, Inc.	200144-0	Dexter	MI	Fasteners
Dow Chemical N. America Foam Products Research, Prod. Perf. Lab.	100103-0	Midland	MI	Thermal Insl.
Eaton E3 Laboratory	100382-0	Southfield	MI	MIL-STD-462
EMSL Analytical, Inc.	101048-4	Ann Arbor	MI	PLM
EMSL Analytical, Inc.	101048-4	Ann Arbor	MI	TEM
ERT Testing Services	101295-0	Highland Park	MI	PLM
Fabristeel Products Inc.	200329-0	Taylor	MI	Fasteners
Fibertec, Inc.	101510-0	Holt	MI	PLM
Multifastener Laboratory	200267-0	Taylor	MI	Fasteners
NSS Technologies	200184-0	Plymouth	MI	Fasteners
NYLOK Fastener Corporation	200273-0	Macomb	MI	Fasteners
Wilson-Garner Company	200136-0	Harrison Township	MI	Fasteners

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
Wolverine Plating Corp.	200230-0	Roseville	MI	Fasteners
Wonder Makers Environmental, Inc.	102065-0	Kalamazoo	MI	PLM
<b>MN</b>				
3M Product Safety EMC Laboratory	200033-0	St. Paul	MN	FCC
Braun Intertec Corporation	101234-0	Minneapolis	MN	PLM
Braun Intertec Corporation	101234-0	Minneapolis	MN	TEM
Control Data Accredited OSI Test Center	100354-0	Arden Hills	MN	GOSIP
IBM Rochester EMC Lab	200091-0	Rochester	MN	FCC
Institute for Environmental Assessment	101249-0	Brooklyn Park	MN	PLM
Intertek Testing Services NA, Inc.	200049-0	Oakdale	MN	FCC
Legend Technical Services, Inc.	102081-0	St. Paul	MN	PLM
Maxim Technologies, Inc.	200046-0	St. Paul	MN	Acoustics
Maxim Technologies, Inc.	200046-0	St. Paul	MN	Thermal Insl.
Minnesota Metrology Laboratory	105003-0	St. Paul	MN	Calibration
Nova Consulting Group, Inc.	101545-0	Chaska	MN	PLM
Orfield Laboratories, Inc.	200248-0	Minneapolis	MN	Acoustics
TUV Product Service, Inc.	100271-0	New Brighton	MN	FCC
TUV Product Service, Inc.	100271-0	New Brighton	MN	MIL-STD-462
TUV Telecom Services, Inc.	200039-0	St. Paul	MN	FCC
<b>MO</b>				
AlliedSignal FM&T Metrology	200108-0	Kansas City	MO	Calibration
Bodycote Industrial Testing, Inc.	101072-0	St. Louis	MO	Fasteners
EnviroHealth Technologies, Inc.	200374-0	St. Louis	MO	PLM
Environmental Health Laboratories	101506-0	Clayton	MO	PLM
Kingston Environmental Laboratory	200041-0	Lee's Summit	MO	PLM
Larron Laboratory	101415-0	Cape Girardeau	MO	PLM
Mallinckrodt Group, Inc.	100503-0	Maryland Heights	MO	Dosimetry
Microscopic Analysis, Inc.	101037-0	St. Louis	MO	PLM
OCCU-TEC, Inc.	102025-0	Kansas City	MO	PLM
Union Electric Company, Callaway Plant	100502-0	Fulton	MO	Dosimetry
<b>MS</b>				
Daybrite Lighting (Genlyte Thomas Group) Photometric Laboratory	200016-0	Tupelo	MS	Lighting
<b>MT</b>				
ILX Lightwave Corporation, Optical Calibration	200211-0	Bozeman	MT	Calibration
Maxim Technologies, Inc.	101292-0	Billings	MT	PLM
<b>NC</b>				
Accredited Environmental Technologies, Inc.	200236-0	Leland	NC	PLM
Advanced Energy, Industrial Energy Laboratory	200081-0	Raleigh	NC	Electric Motors
Asbestos Analysis and Information Service, Inc.	101261-0	Four Oaks	NC	PLM
Carolina Environmental, Inc.	101768-0	Cary	NC	PLM
Carolina Power & Light Company, Harris Energy & Enviro. Center	100517-0	New Hill	NC	Dosimetry
Duke Power Company Dosimetry Laboratory	100505-0	Charlotte	NC	Dosimetry
EEC, Inc.	101088-0	Raleigh	NC	PLM

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
EMC International, Inc.	200094-0	Youngsville	NC	FCC
EMSL Analytical, Inc.	102104-0	Greensboro	NC	PLM
EMSL Analytical, Inc.	102104-0	Greensboro	NC	TEM
EMSL Analytical, Inc.	200247-0	Charlotte	NC	PLM
IBM Charlotte EMC Facility	200337-0	Charlotte	NC	FCC
IBM RTP PSG EMC Test Labs	200200-0	Research Triangle Park	NC	FCC
Law Engineering and Environmental Services, Inc.	101226-0	Charlotte	NC	PLM
S&ME, Inc.	102075-0	Charlotte	NC	PLM
Troxler Radiation Monitoring Svc. a div. of Troxler Elect. Labs	100559-0	Research Triangle Park	NC	Dosimetry
Underwriters Laboratories, Inc.	200246-0	Research Triangle Park	NC	FCC
<b>ND</b>				
A.R.C. Laboratories, Inc.	101832-0	Grand Forks	ND	PLM
<b>NH</b>				
Cabletron Systems, Inc.	200121-0	Rochester	NH	FCC
Dames & Moore, Inc.	101433-0	Salem	NH	PLM
Retlif Testing Laboratories	100267-1	Goffstown	NH	FCC
The Scott Lawson Group, Ltd.	101228-0	Concord	NH	PLM
<b>NJ</b>				
Aerospace NYLOK - a subsidiary of the NYLOK Fastener Corporation	200271-0	Hawthorne	NJ	Fasteners
Bell Laboratories, Division Lucent Technologies, Inc.	101965-0	Murray Hill	NJ	PLM
Craig Environmental Services, Inc.	200289-0	Mays Landing	NJ	PLM
Duro-Test Corporation	200283-0	Clifton	NJ	Lighting
EAI, Inc.	102114-0	Jersey City	NJ	PLM
EMSL Analytical, Inc.	101048-0	Westmont	NJ	PLM
EMSL Analytical, Inc.	101048-0	Westmont	NJ	TEM
EMSL Analytical, Inc.	101048-2	Piscataway	NJ	PLM
EMSL Analytical, Inc.	101048-2	Piscataway	NJ	TEM
EMSL Analytical, Inc.	200310-0	Carlstadt	NJ	PLM
EMSL Analytical, Inc.	200310-0	Carlstadt	NJ	TEM
Enviro Techniques, Inc.	200024-0	Paterson	NJ	PLM
Environmental Monitoring & Consulting Associates	101087-0	Somerville	NJ	PLM
Fountain Compliance Laboratory	200101-0	Somerset	NJ	FCC
Hillmann Environmental Company	101421-0	Union	NJ	PLM
International Asbestos Testing Laboratory	101165-0	Mt. Laurel	NJ	PLM
International Asbestos Testing Laboratory	101165-0	Mt. Laurel	NJ	TEM
Lucent Technologies, Global Product Compliance Lab	100275-0	Holmdel	NJ	FCC
NAWC-Aircraft Div. Lakehurst Electromagnetic Interference Lab.	200222-0	Lakehurst	NJ	MIL-STD-462
NJSP Calibration Laboratory	200006-0	Princeton	NJ	Dosimetry
PMK Group, Inc.	101301-0	Kenilworth	NJ	PLM
STERIS-Isomedix Services	200235-0	Whippany	NJ	Calibration



# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
<b>NM</b>				
Assaigai Analytical Laboratories, Inc.	101457-0	Albuquerque	NM	PLM
Eberline Dosimetry Service	100515-0	Albuquerque	NM	Dosimetry
Sandia National Laboratories	105002-0	Albuquerque	NM	Calibration
<b>NV</b>				
Asbestos TEM Laboratories, Inc.	200104-0	Sparks	NV	PLM
Converse Consultants MR, Inc.	102091-0	Reno	NV	PLM
U.S. EPA	200231-0	Las Vegas	NV	Dosimetry
<b>NY</b>				
ABM Environmental Consultants, Inc.	102015-0	Long Island City	NY	PLM
Airtek Environmental Corp.	102011-0	New York	NY	PLM
ALAC	200323-0	Bronx	NY	PLM
Ambient Labs, Inc.	101618-0	New York	NY	PLM
ATC Associates, Inc.	101187-0	New York	NY	PLM
ATC Associates, Inc.	101187-0	New York	NY	TEM
Athenica Environmental Services, Inc.	101958-0	Long Island City	NY	PLM
Chopra-Lee, Inc.	200095-0	Grand Island	NY	PLM
Chopra-Lee, Inc.	200095-0	Grand Island	NY	TEM
Con Edison - ChemLab	101558-0	Long Island City	NY	PLM
Con Edison, Indian Point	100538-0	Buchanan	NY	Dosimetry
D/L Laboratories	100252-0	New York	NY	Commercial
Diviersified T.E.S.T. Technologies, Inc.	200340-0	Groton	NY	FCC
Eastern Analytical Services, Inc.	101646-0	Elmsford	NY	PLM
Eastern Analytical Services, Inc.	101646-0	Elmsford	NY	TEM
Eastman Kodak Co.-Regulatory Compliance Center-EMC Facility	200313-0	Rochester	NY	FCC
EMSL Analytical, Inc.	101048-9	New York	NY	PLM
EMSL Analytical, Inc.	101048-9	New York	NY	TEM
EMSL Analytical, Inc.	101048-10	Carle Place	NY	PLM
EMSL Analytical, Inc.	101048-10	Carle Place	NY	TEM
EMSL Analytical, Inc.	200056-0	Williamsville	NY	PLM
EMSL Analytical, Inc.	200056-0	Williamsville	NY	TEM
EMSL Analytical, Inc.	200333-0	Elmsford	NY	PLM
EMSL Analytical, Inc.	200333-0	Elmsford	NY	TEM
Enviro-Probe, Inc.	101222-0	Bronx	NY	PLM
Environmental Testing Laboratories, Inc.	101937-0	Farmingdale	NY	TEM
Fairway Testing Company, Inc.	100340-0	Stony Point	NY	Construction
Galson Laboratories	101375-0	East Syracuse	NY	PLM
GE Industrial Systems, Renewal Services - TEMS	200029-0	Rome	NY	Calibration
Ginna Nuclear Station	100514-0	Ontario	NY	Dosimetry
IBM Hudson Valley Acoustics Laboratory	100323-0	Poughkeepsie	NY	Acoustics
Industrial Acoustics Company, Inc., Aero-Acoustics Laboratory	100404-0	Bronx	NY	Acoustics
Intertek Testing Services NA Inc.	100402-0	Cortland	NY	Lighting
Intertek Testing Services NA Inc.	100402-0	Cortland	NY	Thermal Insl.
JLC Environmental Consultants, Inc.	101953-0	New York	NY	PLM
KAM Consultants	102047-0	Long Island City	NY	PLM
KAM Consultants	102047-0	Long Island City	NY	TEM
Lockheed Martin Control Systems EMI	200142-0	Johnson City	NY	MIL-STD-462



**INDEX C. LISTING BY STATE/COUNTRY - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>	<b>FIELD</b>
<b>Laboratory</b>				
New York Testing Laboratories, Inc.	101332-0	Bay Shore	NY	PLM
New York Testing Laboratories, Inc.	101332-0	Bay Shore	NY	TEM
NGC Testing Services, National Gypsum Research Center	200291-0	Buffalo	NY	Acoustics
Niche Analysis, Inc.	102057-0	Mount Vernon	NY	PLM
NY Environmental & Analytical Labs, Inc.	101967-0	Port Washington	NY	PLM
O'Brien & Gere Laboratories, Inc.	101343-0	Syracuse	NY	PLM
O'Brien & Gere Laboratories, Inc.	101343-0	Syracuse	NY	TEM
PSI	101755-0	New York	NY	PLM
PSI, Inc.	101070-0	Farmingdale	NY	PLM
Rapid Environmental Management, Inc.	101974-0	Great Neck	NY	PLM
Retlif Testing Laboratories	100267-0	Ronkonkoma	NY	FCC
Retlif Testing Laboratories	100267-0	Ronkonkoma	NY	MIL-STD-462
Scientific Laboratories, Inc.	101904-1	New York	NY	PLM
Scientific Laboratories, Inc.	101904-1	New York	NY	TEM
Taylor Environmental Group, Inc.	102101-0	Floral Park	NY	PLM
Testing Mechanics Corp.	102001-0	Seaford	NY	PLM
Testwell Laboratories, Inc./Testwell Industries, Inc.	200083-0	Ossining	NY	Construction
Testwell Laboratories, Inc./Testwell Industries, Inc.	200083-0	Ossining	NY	PLM
Testwell Laboratories, Inc./Testwell Industries, Inc.	200083-0	Ossining	NY	TEM
Underwriters Laboratories, Inc.	100255-0	Melville	NY	FCC
Vartest Laboratories, Inc.	200027-0	New York	NY	Carpet
WKP Laboratories, Inc.	101950-0	Ossining	NY	PLM
<b>OH</b>				
A T Labs	101062-0	Youngstown	OH	PLM
American Electric Power, Environmental Laboratory	102102-0	Columbus	OH	PLM
ATC Associates Inc.	102071-0	Cincinnati	OH	PLM
DataChem Laboratories	101917-0	Cincinnati	OH	PLM
DataChem Laboratories	101917-0	Cincinnati	OH	TEM
DLZ Laboratories, Inc.	101060-0	Columbus	OH	PLM
EA Group	101019-0	Mentor	OH	PLM
EssTek Ohio, Inc.	102093-0	Middleburg Heights	OH	PLM
Fluor Daniel Fernald, Inc., Analytical Laboratory Services	102010-0	Cincinnati	OH	PLM
GE Lighting- Engineering Support - NA	100398-0	Cleveland	OH	Lighting
Gelles Laboratories, Inc.	101170-0	Columbus	OH	PLM
Gelles Laboratories, Inc.	101170-0	Columbus	OH	TEM
Lockheed Martin Utility Services, Inc.	101383-0	Piketon	OH	PLM
m.a.c. Paran Consulting Services, Inc.	102108-0	Amelia	OH	PLM
NASA-Lewis Research Center	200130-0	Cleveland	OH	PLM
NOVA Machine Products	200202-0	Middleburg Heights	OH	Fasteners
Owens Corning Testing Systems - Product Testing Laboratory	100109-0	Granville	OH	Acoustics
Owens Corning Testing Systems - Product Testing Laboratory	100109-0	Granville	OH	Thermal Insl.
TolTest, Inc.	101594-0	Toledo	OH	PLM
Tremco, Inc. - Roofing Division, An RPM	101188-0	Beachwood	OH	PLM

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
Company				
Webber Gage Division / L.S. Starrett Co.	200038-0	Cleveland	OH	Calibration
<b>OK</b>				
Hollytex Carpet Mills, Inc.	100247-0	Anadarko	OK	Carpet
Oklahoma Dept. of Environmental Quality-State Environmental Lab	102112-0	Oklahoma City	OK	PLM
Precision Testing Laboratories, Inc.	101580-0	Moore	OK	PLM
QuanTEM Laboratories, LLC	101959-0	Oklahoma City	OK	PLM
QuanTEM Laboratories, LLC	101959-0	Oklahoma City	OK	TEM
SGS U.S. Testing Company, Inc.	100416-0	Tulsa	OK	Commercial
SGS U.S. Testing Company, Inc.	100416-0	Tulsa	OK	Thermal Insl.
TEC-AN, Inc.	200325-0	Oklahoma City	OK	PLM
<b>OR</b>				
AGRA Earth and Environmental, Inc. - Env. Chemistry Laboratory	200357-0	Portland	OR	PLM
ECS/Wagner Environmental	101064-0	Eugene	OR	PLM
HPNW	100567-0	Tigard	OR	Dosimetry
InFocus Systems, Inc.	200152-0	Wilsonville	OR	FCC
Northwest EMC, Inc.	200059-0	Newberg	OR	FCC
PBS Environmental Building Consultants, Inc.	101910-0	Portland	OR	PLM
Portland Bolt and Manufacturing Company, Inc. Testing Laboratory	200168-0	Portland	OR	Fasteners
Professional Service Industries, Inc., Pittsburgh Test. Lab. Div.	100430-0	Eugene	OR	Wood Prod.
Timberco, Inc. - dba TECO	100420-0	Eugene	OR	Wood Prod.
Willamette Industries, Inc. West Coast Development Lab	200045-0	Wilsonville	OR	Commercial
<b>PA</b>				
Accredited Environmental Technologies, Inc.	101051-0	Media	PA	PLM
AGX, Inc.	101578-0	Cranberry Township	PA	PLM
Allegheny Asbestos Analysis	101704-0	Carnegie	PA	PLM
American Testing Laboratories, Inc.	100146-0	Lancaster	PA	Construction
Analab, LLC	200260-0	Sterling	PA	FCC
Architectural Testing Inc.	200361-0	York	PA	Acoustics
Armstrong Acoustic Labs, Armstrong World Ind., Inc. Innov. Center	100228-0	Lancaster	PA	Acoustics
BarTech Inc. - Chemical Laboratory	200148-0	Johnstown	PA	Fasteners
Criterion Laboratories, Inc.	102046-0	Bensalem	PA	PLM
Dodge-Regupol, Inc. Laboratory	200030-0	Lancaster	PA	Commercial
Duquesne Light Company, Beaver Valley Power Station	100521-0	Shippingport	PA	Dosimetry
GA Environmental Services, Inc.	101996-0	Eddystone	PA	PLM
GPU Nuclear Chemistry/Materials Labs.	102064-0	Reading	PA	PLM
GPU Nuclear Corp.	100510-0	Middletown	PA	Dosimetry
Henry Troemner, Inc.	105013-0	Philadelphia	PA	Calibration
Instrument Specialties Co., Inc.	200076-0	Delaware Water Gap	PA	FCC
Kevco Services, Inc.	101941-0	Butler	PA	PLM
Levecque Technical Center	100101-0	Blue Bell	PA	Thermal Insl.
Michael & Associates	100427-0	State College	PA	Acoustics

**INDEX C. LISTING BY STATE/COUNTRY - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>	<b>FIELD</b>
Microbac Laboratories, Inc.	101035-0	Erie	PA	PLM
PA DEP Bureau of Laboratories	101323-0	Harrisburg	PA	PLM
Philip Analytical Services	101262-0	Reading	PA	PLM
Philip Analytical Services	101262-0	Reading	PA	TEM
PP&L, Inc.	100554-0	Allentown	PA	Dosimetry
PSI	101350-0	Pittsburgh	PA	PLM
PSI	101350-0	Pittsburgh	PA	TEM
R & B Enterprises	100280-0	West Conshohocken	PA	FCC
R & B Enterprises	100280-0	West Conshohocken	PA	MIL-STD-462
RJ Lee Group, Inc.	101208-0	Monroeville	PA	PLM
RJ Lee Group, Inc.	101208-0	Monroeville	PA	TEM
SPS Technologies; Aerospace Fastener Group	200164-0	Jenkintown	PA	Fasteners
The Perryman Company	200128-0	Houston	PA	Fasteners
Volz Environmental Services, Inc.	101269-0	Pittsburgh	PA	PLM
<b>PR</b>				
Analytical Environmental Services International, Inc.	200051-0	Hato Rey	PR	PLM
<b>RI</b>				
EMSL Analytical, Inc.	102105-0	Warwick	RI	PLM
RI Analytical Laboratories, Inc.	101440-0	Warwick	RI	PLM
SNB Laboratory	200308-0	Cumberland	RI	Fasteners
<b>SC</b>				
Compliance Test Laboratories, Inc.	200237-0	Liberty	SC	FCC
Davis & Floyd, Inc.	101410-0	Greenwood	SC	PLM
South Carolina Department of Health & Environmental Control	101572-0	Columbia	SC	PLM
<b>TN</b>				
Leland-Powell Fasteners, Inc. Fastener Testing Laboratory	200171-0	Martin	TN	Fasteners
MagneTek (Lexington) Engineering Laboratory	200053-0	Lexington	TN	Electric Motors
National Econ Corporation	200047-0	Memphis	TN	PLM
Oak Ridge Metrology Center	105000-0	Oak Ridge	TN	Calibration
Oak Ridge National Laboratory	200228-0	Oak Ridge	TN	PLM
Oak Ridge National Laboratory Electric Machinery Center	200244-0	Oak Ridge	TN	Electric Motors
R & D Services, Inc.	200265-0	Cookeville	TN	Thermal Insl.
Tennessee Valley Authority External Dosimetry Service	100516-0	Soddy-Daisy	TN	Dosimetry
<b>TX</b>				
A & B Environmental Services, Inc.	101793-0	Houston	TX	PLM
Acoustic Systems Acoustical Research Facility	100286-0	Austin	TX	Acoustics
ATC Associates Inc.	200290-0	Dallas	TX	PLM
Atomic Energy Industrial Laboratory of the Southwest, Inc.	100556-0	Houston	TX	Dosimetry
Austin Analytical Laboratory	200014-0	Austin	TX	PLM
CAM Environmental Services, Inc.	200240-0	Pasadena	TX	PLM

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
CHEMTEX Environmental Laboratory, Inc.	200025-0	Port Arthur	TX	PLM
Compaq Computer Corp. Emissions Control Lab	200058-0	Houston	TX	FCC
Compaq Corporate Metrology	200154-0	Houston	TX	Calibration
Crisp Analytical Laboratory	200349-0	Carrollton	TX	PLM
Crisp Analytical Laboratory	200349-0	Carrollton	TX	TEM
Dell Regulatory Test Laboratories	200052-0	Round Rock	TX	Acoustics
Dell Regulatory Test Laboratories	200052-0	Round Rock	TX	FCC
Dolphin Environmental Consultants	102086-0	Stafford	TX	PLM
EcoSystems Environmental, Inc.	101162-0	Carrollton	TX	PLM
EMSL Analytical, Inc.	102106-0	Houston	TX	PLM
EMSL Analytical, Inc.	102106-0	Houston	TX	TEM
EMSL Analytical, Inc.	200034-0	Dallas	TX	PLM
EMSL Analytical, Inc.	200034-0	Dallas	TX	TEM
Envirotest, Inc.	101595-0	Houston	TX	PLM
ERI Consulting Engineers, Inc.	101232-0	Tyler	TX	PLM
HIH Laboratory, Inc.	101233-0	Webster	TX	PLM
IBM Austin EMC	200112-0	Austin	TX	FCC
Jimmie Ann Bolton	101735-0	Austin	TX	PLM
KTL Dallas, Inc.	100426-0	Lewisville	TX	FCC
LambdaMetrics, Inc.	200122-0	Cedar Park	TX	FCC
Law Engineering and Environmental Services, Inc.	101152-0	Houston	TX	PLM
Law Engineering and Environmental Services, Inc.	101973-0	Dallas	TX	PLM
Loflin Environmental Services	102044-0	Houston	TX	PLM
Maxim Technologies, Inc.	101091-0	Dallas	TX	PLM
Maxim Technologies, Inc.	101091-0	Dallas	TX	TEM
Maxim Technologies, Inc.	101091-1	Houston	TX	PLM
McKee Environmental Health, Inc.	101135-0	Friendswood	TX	PLM
Metroplex Metrology Lab, Inc.	200262-0	Fort Worth	TX	Calibration
Micro Air of Texas, Inc.	102008-0	Houston	TX	PLM
Omni Environmental, Inc.	102061-0	Austin	TX	PLM
Professional Testing (EMI), Inc.	200062-0	Round Rock	TX	FCC
Quest MicroAnalytics, Inc.	200249-0	Dallas	TX	PLM
Reservoirs Environmental Services, Inc.	101896-1	Houston	TX	PLM
Reservoirs Environmental Services, Inc.	101896-1	Houston	TX	TEM
RheinTexas, Inc.	200245-0	Plano	TX	FCC
RJ Lee Group, Inc.	101208-5	Houston	TX	PLM
RJ Lee Group, Inc.	101208-5	Houston	TX	TEM
South Texas Project Dosimetry Laboratory	100519-0	Wadsworth	TX	Dosimetry
Steve Moody Micro Services, Inc.	102056-0	Carrollton	TX	PLM
Steve Moody Micro Services, Inc.	102056-0	Carrollton	TX	TEM
Sun City Analytical, Inc.	101870-0	El Paso	TX	PLM
Toshiba/Houston Test Laboratory	200088-0	Houston	TX	Electric Motors
TU Electric-Comanche Peak Steam Electric Station	100528-0	Glen Rose	TX	Dosimetry
US Air Force Center for Radiation Dosimetry	100548-0	Brooks AFB	TX	Dosimetry
Walker Bolt Manufacturing Co.	200126-0	Houston	TX	Fasteners
Water, Earth Solutions & Technologies, Inc.	102043-0	Dallas	TX	PLM
Wayne Langston, Inc.	200021-0	League City	TX	FCC



**INDEX C. LISTING BY STATE/COUNTRY - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>	<b>FIELD</b>
<b>UT</b>				
Communication Certification Laboratory	100272-0	Salt Lake City	UT	FCC
Dixon Information Inc.	101012-0	South Salt Lake	UT	PLM
<b>VA</b>				
Alloy & Stainless Testing	200353-0	Virginia Beach	VA	Fasteners
American Medical Laboratories, Inc.	101136-0	Chantilly	VA	PLM
Applied Environmental, Inc.	101611-0	Reston	VA	PLM
Cryptographic Equipment Assessment Lab. (CEAL)	200002-0	McLean	VA	Cryptographic
EMSL Analytical, Inc.	101277-0	Fairfax	VA	PLM
EMSL Analytical, Inc.	101277-0	Fairfax	VA	TEM
Environmental Hazards Services, L.L.C.	101882-0	Richmond	VA	PLM
Environmental Testing and Monitoring Services, Inc.	200131-0	Virginia Beach	VA	PLM
Froehling & Robertson, Inc.	102060-0	Richmond	VA	PLM
Hubbell Lighting Photometric Laboratory	200020-0	Christiansburg	VA	Lighting
Industrial Laboratory	102115-0	Portsmouth	VA	PLM
Labcorp Analytics Laboratory	101004-0	Richmond	VA	PLM
Law Engineering and Environmental Services, Inc.	101847-0	Sterling	VA	PLM
Marine Chemist Service, Inc.	101425-0	Newport News	VA	PLM
Newport News Shipbuilding Radiological Control Department	100561-0	Newport News	VA	Dosimetry
Pacific Environmental Services, Inc.	101190-0	Herndon	VA	PLM
Proxtronic, Inc.	100573-0	Burke	VA	Dosimetry
Rhein Tech Laboratories, Inc.	200061-0	Herndon	VA	FCC
RJ Lee Group, Inc.	101208-3	Manassas	VA	PLM
RJ Lee Group, Inc.	101208-3	Manassas	VA	TEM
Schneider Laboratories, Inc.	101150-0	Richmond	VA	PLM
Scientific Laboratories, Inc.	101904-0	Midlothian	VA	PLM
Scientific Laboratories, Inc.	101904-0	Midlothian	VA	TEM
SEAS, Inc.	101185-0	Blacksburg	VA	PLM
State of Virginia Metrology Lab	105007-0	Richmond	VA	Calibration
TC Analytics, Inc.	101672-0	Norfolk	VA	PLM
<b>VT</b>				
Vermont Fasteners Manufacturing	200254-0	Swanton	VT	Fasteners
<b>WA</b>				
APA - The Engineered Wood Association Research Center	100423-0	Tacoma	WA	Wood Prod.
Battelle - Pacific Northwest National Laboratory	200216-0	Richland	WA	Dosimetry
BCAG Fastener Quality Test Lab Everett Site	200292-0	Seattle	WA	Fasteners
Clayton Environmental Consultants	101106-0	Seattle	WA	PLM
EMSL Analytical, Inc.	200019-0	Seattle	WA	PLM
EMSL Analytical, Inc.	200019-0	Seattle	WA	TEM
Fluke Corporation Primary Standards Laboratory	105016-0	Everett	WA	Calibration
Key Tronic Corp.	200096-0	Spokane	WA	FCC
Lab/Cor, Inc.	101920-0	Seattle	WA	TEM



# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
Mountain Laboratories	101890-0	Spokane	WA	PLM
Naval Nuclear Propulsion Program Directorate, Washington, D.C.	100565-0	Bremerton	WA	Dosimetry
Northwest Envirocon, Inc.	101869-0	Vancouver	WA	PLM
NVL Laboratories, Inc.	102063-0	Seattle	WA	PLM
Pacific Northwest National Laboratory	105020-0	Richland	WA	Calibration
Pacific Rim Environmental, Inc.	101631-0	Tukwila	WA	PLM
Prezant Associates, Inc.	101886-0	Seattle	WA	PLM
Puget Sound Naval Shipyard	101539-0	Bremerton	WA	PLM
Safe Environment of America	102021-0	Kent	WA	PLM
Underwriters Laboratories Inc.	200214-0	Camas	WA	FCC
United States Dosimetry Technology, Inc.	100571-0	Richland	WA	Dosimetry
Waste Management Federal Services of Hanford, Inc.	101058-0	Richland	WA	PLM
<b>WI</b>				
AIResearch, Inc.	101868-0	Wauwatosa	WI	PLM
Aurora Consolidated Laboratories	101661-0	West Allis	WI	PLM
Hufcor Laboratory	100239-0	Janesville	WI	Acoustics
Intertek Testing Services NA Inc.	200031-0	Middleton	WI	Thermal Insl.
Marathon Electric - Wausau Engineering Lab.	200134-0	Wausau	WI	Electric Motors
Micro Analytical, Inc.	101247-0	Milwaukee	WI	PLM
PFS Corporation	100421-0	Madison	WI	Wood Prod.
PSI, Inc.	200042-0	New Berlin	WI	PLM
Rice Lake Weighing Systems	105001-0	Rice Lake	WI	Calibration
Wausau Insurance Companies	101079-0	Wausau	WI	PLM
Wisconsin Occupational Health Laboratory	101109-0	Madison	WI	PLM
<b>WV</b>				
Environmental Services International, Inc.	101306-0	St. Albans	WV	PLM
Philips Lighting Corporate Calibration & Standards Laboratory	100399-0	Fairmont	WV	Lighting
Triad Environmental Consulting, Inc.	102073-0	Huntington	WV	PLM
<b>BRAZIL</b>				
Acominas - Analysis and Testing Laboratory	200185-0	Ouro Branco MG	BRAZIL	Fasteners
Belgo-Mineira Chemical Laboratory	200196-0	35.930-900 Joao Monlevade	BRAZIL	Fasteners
<b>CANADA</b>				
Canadian Standards Association	100322-0	Etobicoke Ontario	CANADA	Commercial
Canadian Standards Association	100322-0	Etobicoke Ontario	CANADA	FCC
Celestica International Inc.	200055-0	North York, Ontario	CANADA	FCC
Chatfield Technical Consulting Limited	101103-0	Mississauga Ontario	CANADA	PLM
DOMUS ITSL, a division of LGS Group, Incorporated	200017-0	Ottawa Ontario	CANADA	Cryptographic
Electronics Test Centre	200282-0	Kanata, Ont.	CANADA	FCC
Ingersoll Fasteners	200208-0	Ingersoll Ontario	CANADA	Fasteners
Ivaco Rolling Mills, Chemistry Laboratory	200143-0	L'Orignal Ontario	CANADA	Fasteners
KTL Ottawa Inc.	100351-0	Ottawa Ontario	CANADA	FCC
Northern Telecom BVW Lab	200098-0	Belleville, Ontario	CANADA	FCC
Northern Telecom Product Integrity Labs.	100350-0	Kanata Ontario	CANADA	FCC
Pinchin Environmental Ltd.	101270-0	Mississauga Ontario	CANADA	PLM
Small IAC Test Laboratory	200287-0	Peterborough	CANADA	Electric Motors

**INDEX C. LISTING BY STATE/COUNTRY - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>	<b>FIELD</b>
UltraTech Engineering Labs Inc.	200093-0	Mississauga, Ontario	CANADA	FCC
Vibro-Acoustics Laboratory	100424-0	Scarborough Ontario	CANADA	Acoustics
<b>INDIA</b>				
Sundram Fasteners Limited (Inhouse test laboratory)	200212-0	Chennai (Madras), Tamil	INDIA	Fasteners
Sundram Fasteners Limited Chemical Testing Laboratory	200256-0	Andhra Pradesh	INDIA	Fasteners
<b>JAPAN</b>				
A-Pex International Co., Ltd. Yokowa Laboratory	200109-0	Mie-ken	JAPAN	FCC
Akzo Kashima Ltd. Kakegawa EMC Test Site	100290-2	Shizuoka	JAPAN	FCC
Akzo Kashima Ltd., Kashima EMC Site	100290-0	Ibaraki	JAPAN	FCC
Akzo Kashima Ltd., Kawasaki Technical Center	200300-0	Kawasaki	JAPAN	FCC
Akzo Kashima Ltd., Matsuda EMC Test Site	100290-4	Kanagawa	JAPAN	FCC
Akzo Kashima Ltd., Nagano EMC Test Site	100290-3	Nagano	JAPAN	FCC
Akzo Kashima Ltd., Tochigi EMC Test Site	100290-5	Tochigi	JAPAN	FCC
Aoyama Fastener Laboratory	200213-0	Niwa-gun, Aichi Prefecture	JAPAN	Fasteners
Asakawa Screw Co., Ltd.	200197-0	Yokohama	JAPAN	Fasteners
Asakawa Screw Co., Ltd. Kawawa Factory	200257-0	Yokohama	JAPAN	Fasteners
Chemitox EMC Research, Inc.	200120-0	Yamanashi-ken	JAPAN	FCC
Cosmos Corporation	200151-0	Watarai-gun Mie	JAPAN	FCC
Electro. Meas. Off., Yokohama Res. & Dev. Ctr. Murata Mfg. Co.	200263-0	Kanagawa	JAPAN	FCC
EMC Kashima Corporation	200070-0	Chiba-ken	JAPAN	FCC
Fuji Buhin Kogyo Kabushiki Kaisha	200203-0	Ohta Gunma	JAPAN	Fasteners
Fujitsu Evaluation Engineering Laboratory	200281-0	Numazu, Shizuoka-Pref.	JAPAN	FCC
Fujitsu General EMC Laboratory	200373-0	Kawasaki	JAPAN	FCC
Fuserashi Gunma	200173-0	Gunma-Ken	JAPAN	Fasteners
Hitachi Information Technology Co., Ltd. Nakai Test Site	200186-0	Kanagawa	JAPAN	FCC
IBM Yamato EMC Engineering	200198-0	Yamato Kanagawa	JAPAN	FCC
IPS Corporation	200012-0	Nagano	JAPAN	FCC
Japan Quality Assurance Org. Chubu Testing Center Shikatsu Branch	200190-0	Aichi	JAPAN	FCC
Japan Quality Assurance Org. Safety Testing Ctr. Tsuru EMC Branch	200192-0	Yamanashi	JAPAN	FCC
Japan Quality Assurance Organization	200191-0	Osaka	JAPAN	FCC
Kita-Kansai Testing Center				
Japan Quality Assurance Organization Safety Testing Center	200189-0	Tokyo	JAPAN	FCC
Kansai Electronic Industry Development Center, Ikoma Testing Lab.	200207-0	Ikoma Nara	JAPAN	FCC
Kobelco Research Institute, Inc. Stock Company	200169-0	Kobe	JAPAN	Fasteners
Kyowa Kogyosyo Co., Ltd. Test Laboratory	200274-0	Komatsu City, Ishikawa	JAPAN	Fasteners
Matsushita EMC Center	100428-0	Taki-gun, Hyogo	JAPAN	FCC
Meidoh Laboratory	200239-0	Toyota, Aichi	JAPAN	Fasteners
Metallic Material Laboratory in Toyota Motor Co.	200223-0	Toyota city Aichi	JAPAN	Fasteners
Minebea Co., Ltd. Fujisawa Manufacturing	200229-0	Fujisawa, Kanagawa	JAPAN	Fasteners

# INDEX C. LISTING BY STATE/COUNTRY - continued

LABORATORY NAME	NVLAP LAB CODE	CITY	STATE/ COUNTRY	FIELD
Unit				
O & K Company Limited, Osaka Test Center	200166-0	Osaka-Shi	JAPAN	Fasteners
Ohtama Co., Ltd. Yamanashi EMC Test Site	200175-0	Yamanashi	JAPAN	FCC
Okai Iron Works Co., Ltd.	200299-0	Izumisano Osaka	JAPAN	Fasteners
Okawa Laboratory	200296-0	Naka-gun, Ibaraki-ken	JAPAN	Fasteners
Owari Precise Products Co., Ltd.	200227-0	Nagoya	JAPAN	Fasteners
PFU TECHNOCONSUL EMC Center	200259-0	Ishikawa-Ken	JAPAN	FCC
Ricoh Company LTD. Ohmori Acoustics Test Site	200345-0	Tokyo	JAPAN	Acoustics
Site				
Ricoh Company, Ltd. Ohmori EMC Center	200163-0	Tokyo	JAPAN	FCC
Sannohashi Corporation	200205-0	Yashioshi, Saitama-ken	JAPAN	Fasteners
Seiko Epson Corporation	200157-0	Shiojiri-City Nagano	JAPAN	FCC
Sony Atsugi EMC Site	200285-0	Shinagawa, Tokyo	JAPAN	FCC
Sony Minokamo EMC Site	200368-0	Gifu-Pref.	JAPAN	FCC
Sugiura Seisakusho Co., Ltd.	200226-0	Nishio Aichi	JAPAN	Fasteners
Sumitomo Metal Technology, Inc. Kokura Division	200215-0	Kitakyushu	JAPAN	Fasteners
Division				
TDK Corporation's 10m Anechoic Chamber and Chikumagawa Open Site	200309-0	Ichikawa-shi, Chiba-ken	JAPAN	FCC
TDK Corporation's Chikumagawa Open Site	200319-0	Saku-shi, Nagano-ken	JAPAN	FCC
TEAC Corporation EMC Center	200362-0	Iruma-shi	JAPAN	FCC
Tokin EMC Engineering Co., Ltd. Kawasaki Facility	200217-0	Kawasaki-city, Kanagawa	JAPAN	FCC
Tokin EMC Engineering Co., Ltd. Nagoya Testing Laboratory	200219-0	Daian-cho, Inabe-gun, Mie	JAPAN	FCC
Tokin EMC Engineering Co., Ltd. Osaka Testing Laboratory	200218-0	Sanda-city, Hyogo	JAPAN	FCC
Tokin EMC Engineering Co., Ltd. Tsukuba Testing Laboratory	200221-0	Tsukuba-city, Ibaraki	JAPAN	FCC
Topura Co., Ltd.	200181-0	Hadano Kanagawa	JAPAN	Fasteners
Topura Co., Ltd. Osaka	200242-0	Katano, Osaka	JAPAN	Fasteners
Topura Co., Ltd. Tokai	200243-0	Ogasagun, Shizuoka	JAPAN	Fasteners
Toshiba Corp., Ome Works	200107-0	Ome Tokyo	JAPAN	FCC
Yamaha Motor Metal Testing Laboratory	200276-0	Iwata Shizuoka	JAPAN	Fasteners
Fasteners and Metals				
Zacta Technology Corporation Yonezawa Testing Center	200306-0	Yonezawa-shi Yamagata	JAPAN	FCC
<b>KOREA</b>				
Korea Testing & Research Inst. for Chemical Industry-Inchon Off.	200177-0	Inchon	KOREA	Fasteners
Korea Tokin EMC Engineering Co., Ltd.	200220-0	Namyangju-si, Kyunggi-Do	KOREA	FCC
LG Electronics, Inc., Quality and Reliability Center	200040-0	Seoul	KOREA	FCC
<b>MEXICO</b>				
Prottsa, S.A. de C.V.	200261-0	Mexico City	MEXICO	Fasteners
<b>TAIWAN</b>				
Advance Data Technology Corporation	200102-0	Taipei Hsien	TAIWAN	FCC
Electronic Research & Service Organization/ITRI	200118-0	Hsinchu	TAIWAN	FCC
Electronics Testing Center, Taiwan	200133-0	Taoyuan Hsien	TAIWAN	FCC

**INDEX C. LISTING BY STATE/COUNTRY - continued**

<b>LABORATORY NAME</b>	<b>NVLAP LAB CODE</b>	<b>CITY</b>	<b>STATE/ COUNTRY</b>	<b>FIELD</b>
Fong Prean Industrial Co., Ltd.	200288-0	Kaohsiung Hsien	TAIWAN	Fasteners
Fwu Kuang Enterprises Co., Ltd.	200286-0	Tainan Hsien	TAIWAN	Fasteners
Global EMC Standard Tech. Corp.	200085-0	Taipei County	TAIWAN	FCC
HomeTek Technology Inc.	200331-0	Taipei Shien	TAIWAN	FCC
International Standards Laboratory	200234-0	Hsichih Chen, Taipei	TAIWAN	FCC
Neutron Engineering Inc.	200145-0	Taipei	TAIWAN	FCC
PEP Testing Laboratory	200097-0	Taipei Hsien	TAIWAN	FCC
Philips Electronics Industries (TAIWAN) Ltd.	200137-0	Chungli, Taoyuan	TAIWAN	FCC
Quietek Corporation	200347-0	Hsin-Chu City	TAIWAN	FCC
Radiation Laboratory, Taiwan Power Company	100562-0	Shihmen, Taipei	TAIWAN	Dosimetry
San Shing Hardware Works Co., Ltd. Test Laboratory	200158-0	Tainan	TAIWAN	Fasteners
Spectrum Research & Testing Laboratory, Inc.	200099-0	Chung-Li, Taoyuan	TAIWAN	FCC
Sporton International, Inc.	200079-0	Taipei Hsien	TAIWAN	FCC
Super Cheng Industrial Testing Laboratory	200280-0	Kaohsiung, Kangshan	TAIWAN	Fasteners
Taiwan Tokin EMC Eng. Corp.	200077-0	Taipei	TAIWAN	FCC
TAO/TA2 EMC Laboratory	200140-0	Taoyuan	TAIWAN	FCC
Training Research Co., Ltd.	200174-0	Taipei	TAIWAN	FCC
<b>UNITED KINGDOM</b>				
GEC Marconi Avionics Ltd Environmental and EMC Test Center	200304-0	Kent	U. K.	MIL-STD-462
National Computing Centre Ltd.	100357-0	Manchester	U. K.	GOSIP





INDEX

D

LISTING OF  
TESTING  
LABORATORIES  
BY NYLAP  
LAB CODE



NVLAP LAB CODE 100101-0

**Leveque Technical Center**

1400 Union Meeting Road  
P.O. Box 1100  
Blue Bell, PA 19422-0761  
Contact: Mr. Peter Herault  
Phone: 610-341-6376  
Fax: 610-341-6291  
E-Mail: pete.herault@CT.SGCNA.com

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code	Designation
------	-------------

**Canadian Standards (Specifications)**

01/W01	CAN/CGSB-51.2-M88
01/W03	CAN/CGSB-51.10-92
01/W04	CAN/CGSB-51.11-92
01/WNOT	Scope excludes CGSB 51-GP-52M; however, ASTM E96 & ASTM D828 are included where specified in the Canadian Standards (01/W02-W04)

**Corrosiveness**

01/C02	16 CFR-Part 1209.5
--------	--------------------

**Flammability**

01/F01	TAPPI T461-OM
01/F05	ASTM E136
01/F07	16 CFR-Part 1209.6
01/F08	16 CFR-Part 1209.7

**Mass, Density, and Dimensional Stability**

01/D01	ASTM C136
01/D02	ASTM C167
01/D08	ASTM C302
01/D09	ASTM C303
01/D11	ASTM C356
01/D12	ASTM C411
01/D24	ASTM C739 (Sec. 12)
01/D26	16 CFR-Part 1209.4
01/D27	ASTM C739 (Sec. 8)
01/D31	MIL-I-22344D (Para. 4.6.3, 4.6.4.)

**Related Material Properties**

01/V04	ASTM E96
01/V07	ASTM C1104/C1104M

**Strength**

01/S01b	ASTM C165 (Proc. B only)
01/S08	ASTM C446
01/S10	ASTM D828
01/S15	ASTM C421
01/S16	ASTM C1101/C1101M

**Thermal Resistance**

01/T01	ASTM C177
01/T04	ASTM C236
01/T05	ASTM C335
01/T06	ASTM C518
01/T09	ASTM C653
01/T10	ASTM C687

NVLAP LAB CODE 100103-0

**Dow Chemical N. America Foam Products Research, Prod. Perf. Lab.**

1605 Joseph Drive  
Midland, MI 48674  
Contact: Ms. Linda Hess  
Phone: 517-636-5069  
Fax: 517-636-0194  
E-Mail: lindahess@dow.com

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code	Designation
------	-------------

**Mass, Density, and Dimensional Stability**

01/D07	ASTM C272
01/D18	ASTM D1622
01/D19	ASTM D2126
01/D23	ASTM D2842

**Related Material Properties**

01/V04	ASTM E96
--------	----------

**Strength**

01/S02	ASTM C203
01/S07	ASTM C273
01/S11	ASTM D1621 (Proc. A)

**Thermal Resistance**

01/T06	ASTM C518
--------	-----------

NVLAP LAB CODE 100104-0

**NAHB Research Center, Inc.**

400 Prince George's Boulevard  
Upper Marlboro, MD 20774-8731  
Contact: Mr. Thomas M. Kenney, P.E.  
Phone: 301-249-4000  
Fax: 301-218-8827  
E-Mail: tkenney@nahbrc.org  
URL: <http://www.nahbrc.org>

**Commercial Products Testing**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code	Designation
------	-------------

**Paints and Related Coatings and Materials**

09/A20	ASTM D2244
--------	------------

**Plastics**

15/A18	ASTM D2565
15/A19	ASTM D2583

**Plumbing**

19/M01	ANSI/CABO A117.1 (Sec. 4.24)
19/M02	ASME/ANSI A112.19.7M (Sec. 5, 7)
19/M03	ASME/ANSI A112.19.8M (Sec. 4, 5)
19/M04	ASTM F446
19/P01	ANSI Z124.1 (Sec. 4, 5, 6)
19/P02	ANSI Z124.2 (Sec. 4, 5, 6)
19/P03	ANSI Z124.3 (Sec. 4, 5, 6)
19/P04	ANSI Z124.4 (Sec. 4, 5)
19/P05	ANSI Z124.4 (Sec. 8) per ASME A112.19.6M (Sec. 7.1)
19/P06	ANSI/IAPMO Z124.6 (Sec. 4, 5, 6)

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

19/P07	ANSI/IAPMO Z124.8 (Sec. 4, 5)
19/V01	ASME A112.19.2M (Sec. 7.1)
19/V02	ASME A112.19.2M (Sec. 7.2)
19/V03	ASME A112.19.2M (Sec. 7.3)
19/V04	ASME A112.19.2M (Sec. 7.4)
19/V06	ASME A112.19.2M (Sec. 7.7)
19/W01	ASME A112.19.6 (Sec. 7.1.2)
19/W02	ASME A112.19.6 (Sec. 7.1.3)
19/W03	ASME A112.19.6 (Sec. 7.1.4)
19/W04	ASME A112.19.6 (Sec. 7.1.5)
19/W05	ASME A112.19.6 (Sec. 7.1.6)
19/W06	ASME A112.19.6 (Sec. 7.1.7)
19/W07	ASME A112.19.6 (Sec. 7.1.8)
19/W08	ASME A112.19.6 (Sec. 7.1.9)

## Thermal Insulation Materials

Accreditation Valid Through: December 31, 1999

### NVLAP

Code Designation

### Mass, Density, and Dimensional Stability

01/D02	ASTM C167
01/D13	ASTM C519
01/D27	ASTM C739 (Sec. 8)

### Thermal Resistance

01/T06	ASTM C518
01/T09	ASTM C653
01/T10	ASTM C687

## NVLAP LAB CODE 100108-0

### TSi, Testing Services, Inc.

817 Showalter Avenue

P.O. Box 2041

Dalton, GA 30721

Contact: Mr. Erle W. Miles, Jr.

Phone: 706-226-1400

Fax: 706-226-6118

URL: <http://www.testing1-2-3.com>

### Carpet and Carpet Cushion

Accreditation Valid Through: December 31, 1999

### NVLAP

Code Designation

### Tests Applicable to Carpet and Carpet Cushion

03/T01	AATCC 16 (Option E)
03/T02	ASTM D2646 (Secs. 16-24)
03/T04	16 CFR Part 1630 (FF-1-70)

### Tests Applicable to Carpets

03/G01	AATCC 20
03/G02	AATCC 20A
03/G03	AATCC 134
03/G04	AATCC 165
03/G05	ASTM D418 (Sec. 8)
03/G06	ASTM D418 (Sec. 9)
03/G07	ASTM D418 (Secs. 10-11)
03/G08	ASTM D418 (Sec. 13)
03/G09	ASTM D1335
03/G10	ASTM D3936
03/G11	ASTM D5252
03/G12	ASTM E648
03/G13	ASTM E662
03/G14	Fed Spec, DDD-C-0095A

## NVLAP LAB CODE 100109-0

### Owens Corning Testing Systems - Product Testing Laboratory

2790 Columbus Road, Route 16

Granville, OH 43023-1200

Contact: Mr. J. Michael Stair

Phone: 740-321-7053

Fax: 740-321-4080

E-Mail: [mike.stair@owenscorning.com](mailto:mike.stair@owenscorning.com)

### Acoustical Testing Services

Accreditation Valid Through: December 31, 1999

### NVLAP

Code Designation

08/P03	ASTM C423 (ISO 354)
08/P04	ASTM C522
08/P35	ASTM E1050

### Thermal Insulation Materials

Accreditation Valid Through: December 31, 1999

### NVLAP

Code Designation

### Corrosiveness

01/C01	ASTM C739 (Sec. 9)
--------	--------------------

### Flammability

01/F02	ASTM E84
01/F05	ASTM E136
01/F07	16 CFR-Part 1209.6
01/F08	16 CFR-Part 1209.7

### Mass, Density, and Dimensional Stability

01/D02	ASTM C167
01/D08	ASTM C302
01/D09	ASTM C303
01/D11	ASTM C356
01/D12	ASTM C411
01/D24	ASTM C739 (Sec. 12)
01/D27	ASTM C739 (Sec. 8)

### Related Material Properties

01/V04	ASTM E96
--------	----------

### Strength

01/S01a	ASTM C165 (Proc. A only)
01/S02	ASTM C203
01/S08	ASTM C446

### Thermal Resistance

01/T01	ASTM C177
01/T05	ASTM C335
01/T06	ASTM C518
01/T09	ASTM C653
01/T10	ASTM C687
01/T11	ASTM C976

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****NVLAP LAB CODE 100113-0****Holometrix - Micromet**

25 Wiggins Avenue  
Bedford, MA 01730-2323  
Contact: Mr. Timothy Kunz  
Phone: 781-275-3300 x245  
Fax: 781-275-3705  
E-Mail: info@holometrix.com  
URL: http://www.holometrix.com

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

**NVLAP**

*Code Designation*

**Thermal Resistance**

01/T01 ASTM C177  
01/T05 ASTM C335  
01/T06 ASTM C518

**NVLAP LAB CODE 100120-0****Commercial Testing Company**

1215 South Hamilton Street  
P.O. Box 985  
Dalton, GA 30722-0985  
Contact: Mr. Jonathan Jackson  
Phone: 706-278-3935  
Fax: 706-278-3936  
E-Mail: ctctest@alltel.net

**Carpet and Carpet Cushion**

Accreditation Valid Through: December 31, 1999

**NVLAP**

*Code Designation*

**Tests Applicable to Carpet Cushion**

03/U01a ASTM D3574 (Sec. 8.2 & Test A)  
03/U01b ASTM D3676 (Secs. 10-12)  
03/U02 ASTM D297  
03/U06 ASTM D1667 (Suffix B)  
03/U07 ASTM D3574 (Test C)  
03/U08 ASTM D3574 (Test D)  
03/U09 ASTM D3574 (Test E)  
03/U10 ASTM D3676 (Sec.13)  
03/U11 ASTM D3676 (Sec.14)  
03/U12 ASTM D3676 (Sec.15)  
03/U13 ASTM D3676 (Sec.16)

**Tests Applicable to Carpet and Carpet Cushion**

03/T01 AATCC 16 (Option E)  
03/T02 ASTM D2646 (Secs. 16-24)  
03/T03 ASTM E84  
03/T04 16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G03 AATCC 134  
03/G04 AATCC 165  
03/G05 ASTM D418 (Sec. 8)  
03/G06 ASTM D418 (Sec. 9)  
03/G07 ASTM D418 (Secs. 10-11)  
03/G08 ASTM D418 (Sec. 13)  
03/G09 ASTM D1335  
03/G10 ASTM D3936  
03/G12 ASTM E648

**03/G13 ASTM E662****NVLAP LAB CODE 100139-0****American Carpet Laboratories, Inc.**

7517 Nashville Street  
P.O. Box 357  
Ringgold, GA 30736  
Contact: Mr. Michael D. Connell  
Phone: 706-935-5672  
Fax: 706-891-5713

**Carpet and Carpet Cushion**

Accreditation Valid Through: December 31, 1999

**NVLAP**

*Code Designation*

**Tests Applicable to Carpet Cushion**

03/U01b ASTM D3676 (Secs. 10-12)  
03/U02 ASTM D297  
03/U08 ASTM D3574 (Test D)  
03/U10 ASTM D3676 (Sec.13)  
03/U12 ASTM D3676 (Sec.15)  
03/U13 ASTM D3676 (Sec.16)

**Tests Applicable to Carpet and Carpet Cushion**

03/T01 AATCC 16 (Option E)  
03/T02 ASTM D2646 (Secs. 16-24)  
03/T04 16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G01 AATCC 20  
03/G02 AATCC 20A  
03/G04 AATCC 165  
03/G05 ASTM D418 (Sec. 8)  
03/G06 ASTM D418 (Sec. 9)  
03/G07 ASTM D418 (Secs. 10-11)  
03/G08 ASTM D418 (Sec. 13)  
03/G09 ASTM D1335  
03/G10 ASTM D3936  
03/G12 ASTM E648  
03/G13 ASTM E662  
03/G14 Fed Spec, DDD-C-0095A

**NVLAP LAB CODE 100142-0****Geoscience Ltd.**

6260-B Marindustry Drive  
San Diego, CA 92121  
Contact: Dr. H. F. Poppendiek  
Phone: 619-453-5483  
Fax: 619-453-4694

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

**NVLAP**

*Code Designation*

**Flammability**

01/F05 ASTM E136

**Thermal Resistance**

01/T01 ASTM C177  
01/T04 ASTM C236



# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

## NVLAP LAB CODE 100146-0

### American Testing Laboratories, Inc.

784 Flory Mill Road  
P.O. Box 4014  
Lancaster, PA 17604-4014  
Contact: Mr. John S. Kassees  
Phone: 717-569-0488  
Fax: 717-569-3429

### Construction Materials Testing

Accreditation Valid Through: March 31, 1999

#### NVLAP

Code Designation

#### Aggregates

02/A03 ASTM C29  
02/A04 ASTM C40  
02/A06 ASTM C88  
02/A07 ASTM C117  
02/A09 ASTM C127  
02/A10 ASTM C128  
02/A11 ASTM C131  
02/A12 ASTM C136  
02/A44 ASTM C566  
02/A46 ASTM C535

#### Cement

02/A51 ASTM C780 (Annex A7)  
02/A52 ASTM C1019

#### Concrete

02/A01 ASTM C39  
02/A02 ASTM C617  
02/A41 ASTM C192  
02/A43 ASTM C1064  
02/A45 ASTM C42  
02/G01 ASTM C31/C172/C143/C138/C231  
02/G02 ASTM C173

#### Soil and Rock

02/L02 ASTM D422  
02/L04 ASTM D698  
02/L05 ASTM D854  
02/L06 ASTM D1140  
02/L08 ASTM D1557  
02/L11 ASTM D2166  
02/L13 ASTM D2216  
02/L16 ASTM D2487  
02/L17 ASTM D2488  
02/L20 ASTM D4318  
02/L23 ASTM D2922  
02/L25 ASTM D3017

## NVLAP LAB CODE 100156-0

### Mohawk Industries, Inc.- Lyerly Plant

Route 1, Box 32, Highway 114  
Lyerly, GA 30730  
Contact: Mr. Richard Turner  
Phone: 706-895-3341 x6250  
Fax: 706-895-2346

### Carpet and Carpet Cushion

Accreditation Valid Through: December 31, 1999

#### NVLAP

Code Designation

#### Tests Applicable to Carpet and Carpet Cushion

03/T01 AATCC 16 (Option E)  
03/T02 ASTM D2646 (Secs. 16-24)  
03/T04 16 CFR Part 1630 (FF-1-70)

#### Tests Applicable to Carpets

03/G04 AATCC 165  
03/G05 ASTM D418 (Sec. 8)  
03/G06 ASTM D418 (Sec. 9)  
03/G07 ASTM D418 (Secs. 10-11)  
03/G08 ASTM D418 (Sec. 13)  
03/G09 ASTM D1335  
03/G10 ASTM D3936

## NVLAP LAB CODE 100166-0

### Independent Textile Testing Service, Inc.

1503 Murray Avenue, P.O. Box 1948  
Dalton, GA 30722-1948  
Contact: Mr. L. Kent Suddeth  
Phone: 706-278-3013  
Fax: 706-272-7057  
E-Mail: ittsslab@dalton.net  
URL: ittsslab.com

### Carpet and Carpet Cushion

Accreditation Valid Through: December 31, 1999

#### NVLAP

Code Designation

#### Tests Applicable to Carpet Cushion

03/U01a ASTM D3574 (Sec. 8.2 & Test A)  
03/U01b ASTM D3676 (Secs. 10-12)  
03/U02 ASTM D297  
03/U03 ASTM D629 (Sec. 10)  
03/U04 ASTM D629 (Secs. 13-22)  
03/U05 ASTM D629 (Secs. 23-27)  
03/U06 ASTM D1667 (Suffix B)  
03/U07 ASTM D3574 (Test C)  
03/U08 ASTM D3574 (Test D)  
03/U09 ASTM D3574 (Test E)  
03/U10 ASTM D3676 (Sec. 13)  
03/U11 ASTM D3676 (Sec. 14)  
03/U12 ASTM D3676 (Sec. 15)  
03/U13 ASTM D3676 (Sec. 16)

#### Tests Applicable to Carpet and Carpet Cushion

03/T01 AATCC 16 (Option E)  
03/T02 ASTM D2646 (Secs. 16-24)  
03/T04 16 CFR Part 1630 (FF-1-70)

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

## Tests Applicable to Carpets

03/G01	AATCC 20
03/G02	AATCC 20A
03/G03	AATCC 134
03/G04	AATCC 165
03/G05	ASTM D418 (Sec. 8)
03/G06	ASTM D418 (Sec. 9)
03/G07	ASTM D418 (Secs. 10-11)
03/G08	ASTM D418 (Sec. 13)
03/G09	ASTM D1335
03/G10	ASTM D3936
03/G11	ASTM D5252
03/G12	ASTM E648
03/G13	ASTM E662
03/G14	Fed Spec, DDD-C-0095A

NVLAP LAB CODE 100190-0

## Beaulieu of America - Carpet Testing Lab

1502 Coronet Drive  
P.O. Box 1248  
Dalton, GA 30722-1248  
Contact: Mr. E. Ronald Vinyard  
Phone: 706-259-4511 x7367  
Fax: 706-259-2211 x7893

## Carpet and Carpet Cushion

Accreditation Valid Through: December 31, 1999

### NVLAP

Code Designation

## Tests Applicable to Carpet and Carpet Cushion

03/T01	AATCC 16 (Option E)
03/T02	ASTM D2646 (Secs. 16-24)
03/T04	16 CFR Part 1630 (FF-1-70)

## Tests Applicable to Carpets

03/G04	AATCC 165
03/G05	ASTM D418 (Sec. 8)
03/G06	ASTM D418 (Sec. 9)
03/G07	ASTM D418 (Secs. 10-11)
03/G08	ASTM D418 (Sec. 13)
03/G09	ASTM D1335
03/G10	ASTM D3936

NVLAP LAB CODE 100191-0

## STS Consultants, Ltd.

750 Corporate Woods Parkway  
Vernon Hills, IL 60061  
Contact: Mr. William P. Quinn  
Phone: 847-279-2500  
Fax: 847-279-2550  
E-Mail: quinn@stsltd.com

## Construction Materials Testing

Accreditation Valid Through: December 31, 1999

### NVLAP

Code Designation

## Aggregates

02/A03	ASTM C29
02/A04	ASTM C40
02/A06	ASTM C88

02/A07 ASTM C117

02/A09 ASTM C127

02/A10 ASTM C128

02/A11 ASTM C131

02/A12 ASTM C136

02/A13 ASTM C142

02/A15 ASTM D75

02/A46 ASTM C535

## Cement

02/A17 ASTM C109

## Concrete

02/A01 ASTM C39

02/A02 ASTM C617

02/A40 ASTM C78

02/A41 ASTM C192

02/A45 ASTM C42

02/G01 ASTM C31/C172/C143/C138/C231

02/G02 ASTM C173

## Road and Paving Materials

02/M03 ASTM D140

02/M09 ASTM D1074

02/M11 ASTM D1188

02/M12 ASTM D1559

02/M19 ASTM D2172

02/M24 ASTM D2041

02/M25 ASTM D2726

## Soil and Rock

02/L02 ASTM D422

02/L03 ASTM D427

02/L04 ASTM D698

02/L05 ASTM D854

02/L06 ASTM D1140

02/L08 ASTM D1557

02/L10 ASTM D1883

02/L11 ASTM D2166

02/L13 ASTM D2216

02/L15 ASTM D2435

02/L16 ASTM D2487

02/L17 ASTM D2488

02/L18 ASTM D3080

02/L20 ASTM D4318

02/L21 ASTM D2434

02/L22 ASTM D2850

02/L23 ASTM D2922

02/L24 ASTM D2974

02/L26 ASTM D4221

02/L29 Corps of Engineers - Manual

EM-1110-2-1906, Appendix VII, Permeability  
of Fine Grained Soils Using a Triaxial  
Apparatus

02/L30 Corps of Engineers - Manual

EM-1110-2-1906, Appendix X, Consolidated  
Undrained and Consolidated Drained Triaxial  
Test

02/L46 ASTM D5084

## Standard Practices

02/A38 ASTM E329

02/A39 ASTM C1077

02/L32 ASTM D3740

02/M26 ASTM D3666

NVLAP LAB CODE 100193-0

**Shaw Industries, Inc., Central Laboratory  
Operations**

South Glenwood Avenue  
P.O. Box 2128  
Dalton, GA 30722-2128  
Contact: Mr. Jerry T. Wright, Jr.  
Phone: 706-275-2205  
Fax: 706-275-2221  
E-Mail: jay.wright@shawinc.com

**Carpet and Carpet Cushion**

Accreditation Valid Through: June 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Tests Applicable to Carpet and Carpet Cushion**

03/T01	AATCC 16 (Option E)
03/T02	ASTM D2646 (Secs. 16-24)
03/T04	16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G04	AATCC 165
03/G06	ASTM D418 (Sec. 9)
03/G07	ASTM D418 (Secs. 10-11)
03/G08	ASTM D418 (Sec. 13)
03/G09	ASTM D1335
03/G10	ASTM D3936
03/G12	ASTM E648
03/G13	ASTM E662

NVLAP LAB CODE 100197-0

**World Carpets, Inc.**

One World Plaza  
P.O. Box 1448  
Dalton, GA 30720-1448  
Contact: Mr. Wayne Murdock  
Phone: 706-278-8000  
Fax: 706-278-4982  
E-Mail: worldtechlab@juno.com

**Carpet and Carpet Cushion**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Tests Applicable to Carpet and Carpet Cushion**

03/T01	AATCC 16 (Option E)
03/T02	ASTM D2646 (Secs. 16-24)
03/T04	16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G04	AATCC 165
03/G06	ASTM D418 (Sec. 9)
03/G07	ASTM D418 (Secs. 10-11)
03/G08	ASTM D418 (Sec. 13)
03/G09	ASTM D1335
03/G10	ASTM D3936

NVLAP LAB CODE 100210-0

**Flexible Products Company**

2050 North Broadway  
Joliet, IL 60435-3187  
Contact: Mr. Robert Braun  
Phone: 815-774-6500 x1560  
Fax: 815-774-6522  
E-Mail: rbraun@flexpro.com

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Mass, Density, and Dimensional Stability**

01/D15	ASTM D756 (Proc. A)
01/D16	ASTM D756 (Proc. B)
01/D17	ASTM D756 (Proc. E)
01/D18	ASTM D1622
01/D19	ASTM D2126
01/D23	ASTM D2842

**Related Material Properties**

01/V04	ASTM E96
--------	----------

**Strength**

01/S02	ASTM C203
01/S07	ASTM C273
01/S11	ASTM D1621 (Proc. A)

**Thermal Resistance**

01/T06	ASTM C518
--------	-----------

NVLAP LAB CODE 100227-0

**Riverbank Acoustical Laboratories**

1512 S. Batavia Avenue  
P.O. Box 189  
Geneva, IL 60134-3302  
Contact: Mr. John W. Kopec  
Phone: 630-232-0104  
Fax: 630-232-0138  
E-Mail: ral@imaxx.net

**Acoustical Testing Services**

Accreditation Valid Through: March 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

08/P03	ASTM C423 (ISO 354)
08/P05	ASTMC523
08/P06	ASTM E90 (ISO 140, Part 3)
08/P07	ASTM E492
08/P10	ANSI S12.31 (ISO 3741)
08/P30	ASTM E1408
08/P39	ANSI S12.5 (ISO 6926)

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****NVLAP LAB CODE 100228-0**

**Armstrong Acoustic Labs, Armstrong World Ind., Inc. Innov. Center**  
P.O. Box 3511  
2500 Columbia Avenue  
Lancaster, PA 17604  
Contact: Mr. Robert Alan Hallman  
Phone: 717-396-6225  
Fax: 717-396-5865  
E-Mail: Robert\_A\_Hallman@armstrong.com

**Acoustical Testing Services**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

08/P03	ASTM C423 (ISO 354)
08/P07	ASTM E492
08/P28	ASTM E1375
08/P29	ASTM E1376
08/P33	ASTM E1111
08/P34	ASTM E1414 (AMA-1-II-67)(ISO 140, Part 9)

**NVLAP LAB CODE 100239-0****Hufcor Laboratory**

1017 South Jackson Street  
P.O. Box 591  
Janesville, WI 53547-0591  
Contact: Mr. Todd A. Williams  
Phone: 608-758-8329  
Fax: 608-758-8300  
E-Mail: twilliams@hufcor.com

**Acoustical Testing Services**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

08/P06	ASTM E90 (ISO 140, Part 3)
08/P31	ASTM E336

**NVLAP LAB CODE 100247-0****Hollytex Carpet Mills, Inc.**

505 N.E. 7th  
P.O. Box 369  
Anadarko, OK 73005-2299  
Contact: Ms. Carla McCathern  
Phone: 405-247-7453  
Fax: 405-247-9303

**Carpet and Carpet Cushion**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Tests Applicable to Carpet and Carpet Cushion**

03/T01	AATCC 16 (Option E)
03/T04	16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G04	AATCC 165
--------	-----------

03/G09	ASTM D1335
03/G10	ASTM D3936

**NVLAP LAB CODE 100248-0****Knauf Fiber Glass Research Laboratory**

240 Elizabeth Street  
Shelbyville, IN 46176-1496  
Contact: Mr. Timothy R. Jonas  
Phone: 317-398-4434  
Fax: 317-398-3675

**Thermal Insulation Materials**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Mass, Density, and Dimensional Stability**

01/D02	ASTM C167
01/D08	ASTM C302
01/D09	ASTM C303
01/D11	ASTM C356
01/D12	ASTM C411
01/D13	ASTM C519

**Strength**

01/S01a	ASTM C165 (Proc. A only)
---------	--------------------------

**Thermal Resistance**

01/T01	ASTM C177
01/T05	ASTM C335
01/T06	ASTM C518
01/T09	ASTM C653
01/T10	ASTM C687

**NVLAP LAB CODE 100251-0****St. of California, Bur. of Home Furnishings &****Thermal Insulation**

3485 Orange Grove Avenue  
North Highlands, CA 95660-5595  
Contact: Dr. Stephen J. Fischer  
Phone: 916-574-2060  
Fax: 916-574-2449

**Thermal Insulation Materials**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Corrosiveness**

01/C01	ASTM C739 (Sec. 9)
01/C02	16 CFR-Part 1209.5

**Flammability**

01/F07	16 CFR-Part 1209.6
01/F08	16 CFR-Part 1209.7
01/F09	ASTM C739 (Sec. 10)
01/F10	ASTM C739 (Sec. 14)

**Mass, Density, and Dimensional Stability**

01/D02	ASTM C167
01/D08	ASTM C302
01/D09	ASTM C303
01/D26	16 CFR-Part 1209.4



# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

01/D27 ASTM C739 (Sec. 8)

## Thermal Resistance

01/T01 ASTM C177

01/T05 ASTM C335

## NVLAP LAB CODE 100252-0

### D/L Laboratories

116 East 16th Street

New York, NY 10003-2174

Contact: Mr. Saul Spindel

Phone: 212-777-4445

Fax: 212-505-8419

E-Mail: dllabs@aol.com

### Commercial Products Testing

Accreditation Valid Through: December 31, 1999

#### NVLAP

Code Designation

### Building Seals and Sealants

13/O01 ASTM C510

13/O02a ASTM C603

13/O02b CAN2-19.0-M77, Meth. 3.1

13/O03 ASTM C639

13/O04a ASTM C661

13/O04b CAN2-19.0-M77, Meth. 8.1

13/O05a ASTM C679

13/O05b CAN2-19.0-M77, Meth. 2.1

13/O06 ASTM C681

13/O07 ASTM C711

13/O08 ASTM C712

13/O09 ASTM C713

13/O10 ASTM C718

13/O11a ASTM C719

13/O11b CAN2-19.0-M77, Meth. 14.4

13/O12 ASTM C731

13/O13 ASTM C732

13/O14 ASTM C733

13/O15 ASTM C734

13/O16 ASTM C736

13/O17 ASTM C741

13/O18 ASTM C742

13/O19a ASTM C792

13/O19b CAN2-19.0-M77, Meth. 5.1

13/O20 ASTM C793

13/O21 ASTM C794

13/O22 ASTM C910

13/O23 ASTM D2202

13/O24 ASTM D2203

13/O25 ASTM D2376

13/O26 ASTM D2377

13/O27 ASTM D2450

13/O28 ASTM D2451

13/O29 ASTM D2452

13/O30 ASTM D2453

13/O31 CAN2-19.0-M77, Meth. 7.1

13/O32 CAN2-19.0-M77, Meth. 7.3

13/O33 CAN2-19.0-M77, Meth. 8.2

13/O34 CAN2-19.0-M77, Meth. 11.1

13/O35 CAN2-19.0-M77, Meth. 14.7

13/O36 CAN2-19.0-M77, Meth. 19.2

13/O37 ASTM C920

13/O38 ASTM C1241

13/O39 ASTM C1183

13/O40 ASTM C1246

13/O41 CAN2-19.0-M77, Meth. 9.1

13/O42 CAN2-19.0-M77, Meth. 9.2

13/O43 CAN2-19.0-M77, Meth. 14.6

13/O44 CAN2-19.0-M77, Meth. 18.2

13/O45 ASTM C834

### Paints and Related Coatings and Materials

09/A01 ASTM D56

09/A02 ASTM D93 (Method A)

09/A03 ASTM D153

09/A04 ASTM D185

09/A05 ASTM D281

09/A07 ASTM D523

09/A08 ASTM D562

09/A09 ASTM D1005

09/A10 ASTM D1186

09/A11 ASTM D1200

09/A12 ASTM D1210

09/A13 ASTM D1212 (Method A)

09/A14 ASTM D1296

09/A15 ASTM D1310

09/A16 ASTM D1400

09/A17 ASTM D1475

09/A18 ASTM D1544

09/A19 ASTM D1729

09/A20 ASTM D2244

09/A21 ASTM D3278

09/A22 ASTM D3363

09/A23 ASTM D3793

09/A25 ASTM D4212

09/A26 ASTM E1347

09/A28 ASTM E313

09/A30 CGSB Method 1-GP-71, Meth. 10.1

09/A31 CGSB Method 1-GP-71, Meth. 12.8

09/A32 CGSB Method 1-GP-71, Meth. 45.1

09/A33 ASTM D2196

09/B02 ASTM D332

09/B03 ASTM D344

09/B04 ASTM D610

09/B05 ASTM D4214

09/B06 ASTM D660

09/B07 ASTM D661

09/B08 ASTM D662

09/B09 ASTM D711

09/B10 ASTM D714

09/B11 ASTM D772

09/B12 ASTM D868

09/B13a ASTM D968

09/B13b CGSB Method 1-GP-71 Meth. 104.1

09/B14 ASTM D869

09/B15 ASTM D870

09/B16 ASTM D913

09/B18 ASTM D969

09/B19a ASTM D1308

09/B19b CGSB Method 1-GP-71, Meth. 105.1

09/B19c CGSB Method 1-GP-71, Meth. 106.1

09/B19d CGSB Method 1-GP-71, Meth. 107.1

09/B19e CGSB Method 1-GP-71, Meth. 110.1

09/B20 ASTM D1309

09/B23 ASTM D1640



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

09/B24	ASTM D522	09/C44	ASTM D5095
09/B25	ASTM D2197	09/C45	CGSB Method 1-GP-71, Meth. 69.3
09/B26	ASTM D2243	09/D01	ASTM B117
09/B27	ASTM D2248	09/D02	ASTM D609
09/B29	ASTM D2486	09/D03	ASTM D822
09/B31	ASTM D2805	09/D04	ASTM D823 (Limited to Practices B, C, D and E)
09/B32	ASTM D3273	09/D05	ASTM D1006
09/B33	ASTM D3274	09/D06	ASTM D1014
09/B34	ASTM D3450	09/D07	ASTM D1654
09/B37	ASTM D4060	09/D13	ASTM D3924
09/B38	ASTM D4062	09/D14	ASTM G23
09/B39	ASTM D4213	09/D16	ASTM G53
09/B41	Fed. Std. 141, Method 4494	09/D17	ASTM D4446
09/B42	Fed. Std. 141, Method 4061	09/D18	ASTM D5401
09/B43	ASTM D3359	<i>Plastics</i>	
09/B44	ASTM D4828	15/A26	ASTM D2240
09/B45	CGSB Method 1-GP-71, Meth. 14.1		
09/B46a	ASTM D1849		
09/B46b	CGSB Method 1-GP-71, Meth. 30.3		
09/B47	CGSB Method 1-GP-71, Meth. 32.1		
09/B48	CGSB Method 1-GP-71, Meth. 37.3		
09/B49	CGSB Method 1-GP-71, Meth. 112.2		
09/B50	CGSB Method 1-GP-71, Meth. 114.1		
09/B51	CGSB Method 1-GP-71, Meth. 116.2		
09/B52	CGSB Method 1-GP-71, Meth. 123.2		
09/B53	CGSB Method 1-GP-71, Meth. 125.1		
09/B54	CGSB Method 1-GP-71, Meth. 127.1		
09/B55	CGSB Method 1-GP-71, Meth. 130.1		
09/B56	CGSB Method 1-GP-71, Meth. 131.2		
09/B57	CGSB Method 1-GP-71, Meth. 132.1		
09/B58	CGSB Method 1-GP-71, Meth. 134.1		
09/B59	CGSB Method 1-GP-71, Meth. 135.1		
09/B59	CGSB Method 1-GP-71, Meth. 135.1		
09/B60	CGSB Method 1-GP-71, Meth. 142.1		
09/B61	ASTM D412		
09/B62	ASTM D1653		
09/B63	ASTM D2134		
09/B64	ASTM D2370		
09/B65	ASTM D3258		
09/B66	ASTM D3806		
09/B67	ASTM D4400		
09/B68	ASTM D4541		
09/B69	ASTM D4707		
09/B70	ASTM D4946		
09/B71	ASTM D2794		
09/C07	ASTM D1133		
09/C09	ASTM D1259		
09/C11	ASTM D1353		
09/C12	ASTM D1364		
09/C22	ASTM D1644		
09/C26a	ASTM D2369		
09/C26b	CGSB Method 1-GP-71, Meth. 17.1		
09/C26c	CGSB Method 1-GP-71, Meth. 19.1		
09/C27	ASTM D2371		
09/C28	ASTM D2697		
09/C29	ASTM D2698		
09/C30	ASTM D2832		
09/C37	ASTM D3723		
09/C39	ASTM D3960		
09/C40	ASTM D4017		
09/C42	CGSB Method 1-GP-71, Meth. 21.1		
09/C43	CGSB Method 1-GP-71, Meth. 24.1		

**NVLAP LAB CODE 100255-0****Underwriters Laboratories, Inc.**

1285 Walt Whitman Road

Melville, NY 11747-3081

Contact: Mr. Jim Beyreis

Phone: 847-272-8800

Fax: 847-272-8129

URL: <http://www.ul.com>**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP**Code      Designation****AUSTEL Technical Standards as determined under the Telecommunications Act of 1991***

12/T41      TS-001

12/T42      TS-002

12/T44      TS-004

12/T45      TS-006

12/T46      TS-008

***Australian Standards referred to by clauses in AUSTEL Technical Standards***

12/T50      AS/NZS 3260

12/T51      AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01      FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b      Radiated Emissions

12/T01      Terminal Equipment Network Protection

Standards, FCC Method - 47 CFR Part 68 - Analog and Digital

12/T01a      68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306

Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.;

68.312 On-hook impedance limit.; 68.314

Billing protection

12/T01b      68.316 Hearing Aid Compatibility: technical standards

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

12/T01c 68.302 Environmental simulation (Par. a,b)  
*International Special Committee on Radio Interference  
(CISPR) Methods*  
12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 100256-0****Western Electro-Acoustic Lab., Inc.**

1711 16th Street  
Santa Monica, CA 90404  
Contact: Mr. Gary E. Mange  
Phone: 310-450-1733  
Fax: 310-396-3424  
E-Mail: gmange@veneklasen-assoc.com

**Acoustical Testing Services**

Accreditation Valid Through: March 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

08/P03	ASTM C423 (ISO 354)
08/P06	ASTM E90 (ISO 140, Part 3)
08/P31	ASTM E336
08/P32	ASTM E1007

**NVLAP LAB CODE 100259-0****MacMillan Bloedel Packaging, Inc., Combined  
Board Test Lab**

Highway 10 East  
P.O. Box 336  
Pine Hill, AL 36769-5336  
Contact: Mr. Don White  
Phone: 334-963-4391  
Fax: 334-963-4887

**Commercial Products Testing**

Accreditation Valid Through: June 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Paper and Related Products**

09/E02	TAPPI T402-OM; ASTM D685
09/E05	TAPPI T410-OM
09/E06	TAPPI T411-OM
09/E07	TAPPI T412-OM; ASTM D644
09/E08	TAPPI T414-OM
09/E12	TAPPI T459-OM; ASTM D2482
09/E13	TAPPI T460-OM; ASTM D726
09/E20	TAPPI T809-OM
09/E22	TAPPI T807-OM
09/E25	TAPPI T826-PM
09/E30	TAPPI T822-OM
09/H01	ASTM D642; TAPPI T804-OM
09/H26	TAPPI UM-807
09/H28	TAPPI T810-OM
09/H29	TAPPI T811-OM
09/H30	TAPPI T821-OM
09/H31	TAPPI T825-PM

**NVLAP LAB CODE 100261-0****Resources, Applications, Designs & Control, Inc.  
(RADCO)**

3220 E. 59th Street  
Long Beach, CA 90805-4502  
Contact: Mr. Michael L. Zieman, P.E.  
Phone: 562-272-7231  
Fax: 562-529-7513  
E-Mail: Mzieman@Radcoinc.com

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Mass, Density, and Dimensional Stability**

01/D07	ASTM C272
01/D09	ASTM C303
01/D19	ASTM D2126

**Related Material Properties**

01/V04	ASTM E96
--------	----------

**Strength**

01/S02	ASTM C203
01/S10	ASTM D828
01/S11	ASTM D1621 (Proc. A)

**Thermal Resistance**

01/T06	ASTM C518
--------	-----------

**NVLAP LAB CODE 100267-0****Retlif Testing Laboratories**

795 Marconi Avenue  
Ronkonkoma, NY 11779-7231  
Contact: Mr. Ross A. Hansen  
Phone: 516-737-1500  
Fax: 516-737-1497  
E-Mail: rhansen@retlif.com  
URL: <http://www.retlif.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**AUSTEL Technical Standards as determined under the  
Telecommunications Act of 1991**

12/T42	TS-002
12/T43	TS-003
12/T44	TS-004
12/T45	TS-006
12/T46	TS-008

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 -

12/T01a Analog and Digital  
68.302 (Par. c,d,e,f) Environmental simulation;  
68.304 Leakage current limit.; 68.306  
Hazardous voltage limit.; 68.308 Signal power  
limit.; 68.310 Longitudinal balance limit.;  
68.312 On-hook impedance limit.; 68.314  
Billing protection

12/T01b 68.316 Hearing Aid Compatibility: technical  
standards

12/T01c 68.302 Environmental simulation (Par. a,b)

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**MIL-STD-462 Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

**Conducted Emissions:**

12/A01 MIL-STD-462 Method CE01

12/A04 MIL-STD-462 Method CE02

12/A06 MIL-STD-462 Method CE03

12/A08 MIL-STD-462 Method CE04

12/A12 MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01 MIL-STD-462 Method CS01

12/B02 MIL-STD-462 Method CS02

12/B05 MIL-STD-462 Method CS06

12/B08 MIL-STD-462 Method CS10

12/B09 MIL-STD-462 Method CS11

**Radiated Emissions:**

12/D01 MIL-STD-462 Method RE01

12/D02 MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E01 MIL-STD-462 Method RS01

12/E02 MIL-STD-462 Method RS02

12/E04 MIL-STD-462 Method RS03 employing  
RADHAZ procedures for high level testing  
(Consult laboratory for field strengths  
available)

12/E05 MIL-STD-462 Method RS05

12/E07 MIL-STD-462 Method RS06

NVLAP LAB CODE 100267-1

**Retlif Testing Laboratories**

101 New Boston Road

Goffstown, NH 03045

Contact: John Monahan

Phone: 603-497-4600

Fax: 603-497-5281

URL: <http://www.retlif.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 100268-0

**TUV Product Service, Inc.**

10040 Mesa Rim Road

San Diego, CA 92121-1034

Contact: Mr. Floyd R. Fleury

Phone: 619-546-3999

Fax: 619-546-0364

E-Mail: [cfleury@TUVps.com](mailto:cfleury@TUVps.com)

URL: <http://www.tuvps.com>

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**MIL-STD-462 Test Methods**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Conducted Emissions:**

12/A01 MIL-STD-462 Method CE01

12/A04 MIL-STD-462 Method CE02

12/A06 MIL-STD-462 Method CE03

12/A08 MIL-STD-462 Method CE04



# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

12/A10 MIL-STD-462 Method CE06  
12/A12 MIL-STD-462 Method CE07

## Conducted Susceptibility:

12/B01 MIL-STD-462 Method CS01  
12/B02 MIL-STD-462 Method CS02  
12/B04 MIL-STD-462 Method  
CS03/CS04/CS05/CS08  
12/B05 MIL-STD-462 Method CS06  
12/B06 MIL-STD-462 Method CS07  
12/B07 MIL-STD-462 Method CS09

## Radiated Emissions:

12/D01 MIL-STD-462 Method RE01  
12/D02 MIL-STD-462 Method RE02  
12/D03 MIL-STD-462 Method RE03

## Radiated Susceptibility:

12/E01 MIL-STD-462 Method RS01  
12/E02 MIL-STD-462 Method RS02  
12/E03 MIL-STD-462 Method RS03 (Consult  
laboratory for field strengths available)  
12/E04 MIL-STD-462 Method RS03 employing  
RADHAZ procedures for high level testing  
(Consult laboratory for field strengths  
available)

## NVLAP LAB CODE 100269-0

### Intermec Technologies Corporation, Norand Mobile System Division

550 Second Street S.E.  
Cedar Rapids, IA 52401  
Contact: Mr. Cedric Brownfield  
Phone: 319-846-2415  
Fax: 319-846-2475  
E-Mail: brownfieldcn@norand.com

## FCC Test Methods

Accreditation Valid Through: September 30, 1999

### NVLAP

Code Designation

### Australian Standards referred to by clauses in AUSTEL Technical Standards

12/T51 AS/NZS 3548

### Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions

### International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

## NVLAP LAB CODE 100270-0

### Intertek Testing Services NA Inc.

70 Codman Hill Road  
Boxborough, MA 01719  
Contact: Mr. Roland W. Gubisch  
Phone: 978-635-8500  
Fax: 978-263-7086  
E-Mail: rwg@itsqs.com  
URL: http://www.worldlab.com

## FCC Test Methods

Accreditation Valid Through: September 30, 1999

### NVLAP

Code Designation

### AUSTEL Technical Standards as determined under the Telecommunications Act of 1991

12/T41 TS-001  
12/T42 TS-002  
12/T43 TS-003  
12/T44 TS-004  
12/T45 TS-006  
12/T46 TS-008  
12/T49 TS-016

### Australian Standards referred to by clauses in AUSTEL Technical Standards

12/T51 AS/NZS 3548

### Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions  
12/T01 Terminal Equipment Network Protection  
Standards, FCC Method - 47 CFR Part 68 -  
Analog and Digital  
12/T01a 68.302 (Par. c,d,e,f) Environmental simulation;  
68.304 Leakage current limit.; 68.306  
Hazardous voltage limit.; 68.308 Signal power  
limit.; 68.310 Longitudinal balance limit.;  
68.312 On-hook impedance limit.; 68.314  
Billing protection  
12/T01b 68.316 Hearing Aid Compatibility: technical  
standards  
12/T01c 68.302 Environmental simulation (Par. a,b)

### International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

## MIL-STD-462 Test Methods

Accreditation Valid Through: September 30, 1999

### NVLAP

Code Designation

## Conducted Emissions:

12/A01 MIL-STD-462 Method CE01  
12/A04 MIL-STD-462 Method CE02

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

12/A06 MIL-STD-462 Method CE03  
12/A08 MIL-STD-462 Method CE04  
12/A10 MIL-STD-462 Method CE06  
12/A12 MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01 MIL-STD-462 Method CS01  
12/B02 MIL-STD-462 Method CS02  
12/B04 MIL-STD-462 Method  
CS03/CS04/CS05/CS08  
12/B05 MIL-STD-462 Method CS06  
12/B06 MIL-STD-462 Method CS07  
12/B07 MIL-STD-462 Method CS09  
12/B08 MIL-STD-462 Method CS10  
12/B09 MIL-STD-462 Method CS11  
12/B10 MIL-STD-462 Method CS12  
12/B11 MIL-STD-462 Method CS13

**Radiated Emissions:**

12/D01 MIL-STD-462 Method RE01  
12/D02 MIL-STD-462 Method RE02  
12/D03 MIL-STD-462 Method RE03

**Radiated Susceptibility:**

12/E01 MIL-STD-462 Method RS01  
12/E02 MIL-STD-462 Method RS02  
12/E03 MIL-STD-462 Method RS03 (Consult  
laboratory for field strengths available)  
12/E04 MIL-STD-462 Method RS03 employing  
RADHAZ procedures for high level testing  
(Consult laboratory for field strengths  
available)  
12/E05 MIL-STD-462 Method RS05  
12/E07 MIL-STD-462 Method RS06

**NVLAP LAB CODE 100271-0****TUV Product Service, Inc.**

1775 Old Hwy. 8 NW, Suite 104  
New Brighton, MN 55112-1891  
Contact: Mr. Timothy P. O'Shea  
Phone: 651-631-2487  
Fax: 651-638-0285  
E-Mail: [toshea@tuvps.com](mailto:toshea@tuvps.com)  
URL: <http://www.tuvps.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**AUSTEL Technical Standards as determined under the  
Telecommunications Act of 1991**

12/T41 TS-001  
12/T46 TS-008

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T50 AS/NZS 3260  
12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**MIL-STD-462 Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Conducted Emissions:**

12/A01 MIL-STD-462 Method CE01  
12/A04 MIL-STD-462 Method CE02  
12/A06 MIL-STD-462 Method CE03  
12/A08 MIL-STD-462 Method CE04  
12/A12 MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01 MIL-STD-462 Method CS01  
12/B02 MIL-STD-462 Method CS02  
12/B05 MIL-STD-462 Method CS06  
12/B07 MIL-STD-462 Method CS09

**Radiated Emissions:**

12/D01 MIL-STD-462 Method RE01  
12/D02 MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E01 MIL-STD-462 Method RS01  
12/E02 MIL-STD-462 Method RS02  
12/E03 MIL-STD-462 Method RS03 (Consult  
laboratory for field strengths available)  
12/E04 MIL-STD-462 Method RS03 employing  
RADHAZ procedures for high level testing  
(Consult laboratory for field strengths  
available)  
12/E07 MIL-STD-462 Method RS06

**NVLAP LAB CODE 100271-1****TUV Product Service, Inc.**

5541 Central Avenue  
Boulder, CO 80301-2846  
Contact: Jeff Doolittle  
Phone: 303-402-5241  
Fax: 303-449-3004  
E-Mail: [jdoolittle@tuvps.com](mailto:jdoolittle@tuvps.com)  
URL: <http://www.tuvps.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions



*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 100272-0**

**Communication Certification Laboratory**

1940 West Alexander Street  
Salt Lake City, UT 84119-2039  
Contact: Mr. William S. Hurst  
Phone: 801-972-6146  
Fax: 801-972-8432  
E-Mail: wsh@cclab.com  
URL: <http://www.cclab.com/>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41	TS-001
12/T42	TS-002
12/T43	TS-003
12/T44	TS-004
12/T45	TS-006
12/T46	TS-008
12/T49	TS-016

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51	AS/NZS 3548
--------	-------------

*Federal Communications Commission (FCC) Methods*

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection
12/T01b	68.316 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)

**NVLAP LAB CODE 100273-0**

**MET Laboratories, Inc.**

914 W. Patapsco Avenue  
Baltimore, MD 21230-3432  
Contact: Mr. Robert Frier  
Phone: 410-354-3300  
Fax: 410-354-3313  
E-Mail: rfrier@metlabs.com  
URL: <http://www.metlabs.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41	TS-001
12/T42	TS-002
12/T43	TS-003
12/T44	TS-004
12/T45	TS-006
12/T46	TS-008
12/T49	TS-016

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T50	AS/NZS 3260
12/T51	AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection
12/T01b	68.316 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

NVLAP LAB CODE 100274-0

**Intertek Testing Services NA Inc.**

731 Enterprise Drive  
Lexington, KY 40510-1029  
Contact: Mr. Clifford Eugene Jones,  
Phone: 606-226-1060  
Fax: 606-225-1050  
E-Mail: Cliff@TestMark.com  
URL: http://www.testmark.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41 TS-001  
12/T42 TS-002  
12/T43 TS-003  
12/T44 TS-004  
12/T45 TS-006  
12/T46 TS-008  
12/T49 TS-016

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T50 AS/NZS 3260  
12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions  
12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital  
12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit; 68.306 Hazardous voltage limit; 68.308 Signal power limit; 68.310 Longitudinal balance limit; 68.312 On-hook impedance limit; 68.314 Billing protection  
12/T01b 68.316 Hearing Aid Compatibility: technical standards  
12/T01c 68.302 Environmental simulation (Par. a,b)

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 100275-0

**Lucent Technologies, Global Product Compliance Lab**

101 Crawfords Corner Road, M/S 11C-195  
P.O. Box 3030  
Holmdel, NJ 07733-3030  
Contact: Mr. E. Gardner Burkhardt  
Phone: 732-332-6001  
Fax: 732-332-5999  
E-Mail: egburkhardt@lucent.com  
URL: http://www.gpcl.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41 TS-001  
12/T42 TS-002  
12/T44 TS-004  
12/T45 TS-006  
12/T46 TS-008

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 100276-0

**D.L.S. Electronic Systems, Inc.**

1250 Peterson Drive  
Wheeling, IL 60090-6454  
Contact: Mr. Brian J. Mattson  
Phone: 847-537-6400  
Fax: 847-537-6488  
E-Mail: bmattson@dlsemc.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 100278-0****Elite Electronic Engineering Company**

1516 Centre Circle  
Downers Grove, IL 60515-1082  
Contact: Mr. Raymond Klouda  
Phone: 630-495-9770  
Fax: 630-495-9785  
E-Mail: [engineering@elitetest.com](mailto:engineering@elitetest.com)  
URL: <http://www.elitetest.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection
12/T01b	68.316 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)

**MIL-STD-462 Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Conducted Emissions:**

12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A10	MIL-STD-462 Method CE06
12/A12	MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B04	MIL-STD-462 Method CS03/CS04/CS05/CS08
12/B05	MIL-STD-462 Method CS06

12/B06	MIL-STD-462 Method CS07
12/B07	MIL-STD-462 Method CS09
12/B08	MIL-STD-462 Method CS10
12/B09	MIL-STD-462 Method CS11
12/B10	MIL-STD-462 Method CS12
12/B11	MIL-STD-462 Method CS13

**Radiated Emissions:**

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02
12/D03	MIL-STD-462 Method RE03

**Radiated Susceptibility:**

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E05	MIL-STD-462 Method RS05
12/E07	MIL-STD-462 Method RS06

**NVLAP LAB CODE 100280-0****R & B Enterprises**

20 Clipper Road  
West Conshohocken, PA 19428-2721  
Contact: Mr. Rohit Vohra  
Phone: 610-825-1960  
Fax: 610-825-1684  
E-Mail: [rvohra@RBitem.com](mailto:rvohra@RBitem.com)  
URL: [www.RBitem.com](http://www.RBitem.com)

**MIL-STD-462 Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Conducted Emissions:**

12/A01	MIL-STD-462 Method CE01
12/A06	MIL-STD-462 Method CE03
12/A10	MIL-STD-462 Method CE06
12/A12	MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B05	MIL-STD-462 Method CS06
12/B06	MIL-STD-462 Method CS07
12/B07	MIL-STD-462 Method CS09
12/B08	MIL-STD-462 Method CS10
12/B09	MIL-STD-462 Method CS11
12/B10	MIL-STD-462 Method CS12
12/B11	MIL-STD-462 Method CS13

**Radiated Emissions:**

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E05	MIL-STD-462 Method RS05



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP**Code      Designation***Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**NVLAP LAB CODE 100286-0****Acoustic Systems Acoustical Research Facility**

415 East St. Elmo Road  
P.O. Box 3610  
Austin, TX 78764  
Contact: Mr. Michael C. Black  
Phone: 512-444-1961  
Fax: 512-444-2282  
E-Mail: acoustic@inetport.com

**Acoustical Testing Services**

Accreditation Valid Through: June 30, 1999

*NVLAP**Code      Designation*

08/P03	ASTM C423 (ISO 354)
08/P06	ASTM E90 (ISO 140, Part 3)
08/P08	ASTM E596
08/P10	ANSI S12.31 (ISO 3741)
08/P24	ANSI S12.10 (ISO 7779)
08/P35	ASTM E1050

**NVLAP LAB CODE 100288-0****Bentley Testing Laboratory**

14641 E. Don Julian Road  
P.O. Box 527  
City of Industry, CA 91746-3106  
Contact: Ms. Sandy Kolby  
Phone: 626-333-4585 x2253  
Fax: 626-333-4125  
E-Mail: Sandy\_Kolby@mail.ifsia.com

**Carpet and Carpet Cushion**

Accreditation Valid Through: September 30, 1999

*NVLAP**Code      Designation***Tests Applicable to Carpet Cushion**

03/U01a	ASTM D3574 (Sec. 8.2 & Test A)
03/U02	ASTM D297
03/U07	ASTM D3574 (Test C)
03/U08	ASTM D3574 (Test D)
03/U10	ASTM D3676 (Sec.13)

**Tests Applicable to Carpet and Carpet Cushion**

03/T01	AATCC 16 (Option E)
03/T04	16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G04	AATCC 165
03/G05	ASTM D418 (Sec. 8)
03/G06	ASTM D418 (Sec. 9)

03/G07	ASTM D418 (Secs. 10-11)
03/G08	ASTM D418 (Sec. 13)
03/G09	ASTM D1335
03/G10	ASTM D3936
03/G12	ASTM E648
03/G13	ASTM E662

**NVLAP LAB CODE 100290-0****Akzo Kashima Ltd., Kashima EMC Site**

1 Oaza Sunayama, Hasaki, Kashima-gun  
Ibaraki 314-02  
JAPAN

Contact: Mr. Shuichi Kobayashi  
Phone: +81-479-40-1097  
Fax: +81-479-46-1788  
E-Mail: shuichi.kobayashi@nifty.ne.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP**Code      Designation***Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 100290-2****Akzo Kashima Ltd. Kakegawa EMC Test Site**

322 Shimotaruki, Kakegawa  
Shizuoka 436-0222  
JAPAN

Contact: Seiji Matsuda  
Phone: +81-837-24-8191  
Fax: +81-537-24-8193  
E-Mail: akzoemc2@sb3.so-net.or.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP**Code      Designation***Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

to 30 MHz  
12/F01b Radiated Emissions  
*International Special Committee on Radio Interference (CISPR) Methods*  
12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 100290-3****Akzo Kashima Ltd., Nagano EMC Test Site**

3226 Yokokawa, Tatsuno, Kamina-gun

Nagano 399-0511

JAPAN

Contact: Yoshio Kowase

Phone: +81-266-47-5311

Fax: +81-266-47-5540

E-Mail: akzoemc3@sb3.so-net.or.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP**Code      Designation**Australian Standards referred to by clauses in AUSTEL**Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference**(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 100290-4****Akzo Kashima Ltd., Matsuda EMC Test Site**

1283 Yadorigi, Matsuda, Ashigarakami-gun

Kanagawa 258-0001

JAPAN

Contact: Hideki Hayashi

Phone: +81-465-89-2316

Fax: +81-465-89-2160

E-Mail: akzoemc5@sb3.so-net.or.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP**Code      Designation**Australian Standards referred to by clauses in AUSTEL**Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference**(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 100290-5****Akzo Kashima Ltd., Tochigi EMC Test Site**

870 Nakaawano, Awano, Kamitsuga-gun

Tochigi 322-0306

JAPAN

Contact: Kazuharu Yanagisawa

Phone: +81-289-86-7121

Fax: +81-289-86-7126

E-Mail: akzoemc6@sb3.so-net.or.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP**Code      Designation**Australian Standards referred to by clauses in AUSTEL**Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference**(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 100296-0****Chomerics Test Services (CTS)**

77 Dragon Court

Woburn, MA 01888-4014

Contact: Mr. David C. Inman

Phone: 781-935-4850

Fax: 781-935-2758

E-Mail: mpack@chomerics.com

URL: <http://www.chomerictest.com>**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP**Code      Designation*



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment**NVLAP LAB CODE 100297-0****Professional Testing Laboratory, Inc.**

714 Glenwood Place

Dalton, GA 30721

Contact: Mr. Greg Phillips

Phone: 706-226-3283

Fax: 706-226-6787

**Carpet and Carpet Cushion**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Tests Applicable to Carpet Cushion**

03/U01a ASTM D3574 (Sec. 8.2 &amp; Test A)

03/U01b ASTM D3676 (Secs. 10-12)

03/U02 ASTM D297

03/U03 ASTM D629 (Sec. 10)

03/U04 ASTM D629 (Secs. 13-22)

03/U05 ASTM D629 (Secs. 23-27)

03/U06 ASTM D1667 (Suffix B)

03/U07 ASTM D3574 (Test C)

03/U08 ASTM D3574 (Test D)

03/U09 ASTM D3574 (Test E)

03/U10 ASTM D3676 (Sec.13)

03/U11 ASTM D3676 (Sec.14)

03/U12 ASTM D3676 (Sec.15)

03/U13 ASTM D3676 (Sec.16)

**Tests Applicable to Carpet and Carpet Cushion**

03/T01 AATCC 16 (Option E)

03/T02 ASTM D2646 (Secs. 16-24)

03/T04 16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G01 AATCC 20

03/G02 AATCC 20A

03/G03 AATCC 134

03/G04 AATCC 165

03/G05 ASTM D418 (Sec. 8)

03/G06 ASTM D418 (Sec. 9)

03/G07 ASTM D418 (Secs. 10-11)

03/G08 ASTM D418 (Sec. 13)

03/G09 ASTM D1335

03/G10 ASTM D3936

03/G11 ASTM D5252

03/G12 ASTM E648

03/G13 ASTM E662

**NVLAP LAB CODE 100308-0****Special Testing Laboratories, Inc.**

21 Henry Street

P.O. Box 200

Bethel, CT 06801-0200

Contact: Mr. Richard Speciale

Phone: 203-743-7281

Fax: 203-791-2451

**Construction Materials Testing**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Aggregates**

02/A03 ASTM C29

02/A04 ASTM C40

02/A06 ASTM C88

02/A07 ASTM C117

02/A09 ASTM C127

02/A10 ASTM C128

02/A11 ASTM C131

02/A12 ASTM C136

02/A15 ASTM D75

02/A15 ASTM D75

02/A44 ASTM C566

**Concrete**

02/A01 ASTM C39

02/A02 ASTM C617

02/A41 ASTM C192

02/A43 ASTM C1064

02/A45 ASTM C42

02/G01 ASTM C31/C172/C143/C138/C231

02/G02 ASTM C173

**Road and Paving Materials**

02/M25 ASTM D2726

**Soil and Rock**

02/L02 ASTM D422

02/L04 ASTM D698

02/L06 ASTM D1140

02/L07 ASTM D1556

02/L08 ASTM D1557

02/L09 ASTM D1558

02/L12 ASTM D2168

02/L13 ASTM D2216

02/L16 ASTM D2487

02/L17 ASTM D2488

02/L20 ASTM D4318

02/L23 ASTM D2922

02/L25 ASTM D3017

02/L31 ASTM D2167

**Standard Practices**

02/A38 ASTM E329

02/A39 ASTM C1077

**Steel Materials**

02/S02 ASTM A370 (Sec. 14)/E190

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

02/S07 ASTM E709  
02/S08 ASTM E165

## NVLAP LAB CODE 100315-0

### Eastern Materials Testing Lab a division of Jaworski Geotech

One Hartford Square #19  
New Britain, CT 06052  
Contact: Mr. Kevin J. Brigandi  
Phone: 860-224-3316  
Fax: 860-229-9567  
E-Mail: emtl@connix.com  
URL: <http://www.jgi-geo.com>

### Construction Materials Testing

Accreditation Valid Through: June 30, 1999

#### NVLAP

Code	Designation
------	-------------

#### Aggregates

02/A03	ASTM C29
02/A04	ASTM C40
02/A06	ASTM C88
02/A07	ASTM C117
02/A09	ASTM C127
02/A10	ASTM C128
02/A12	ASTM C136

#### Cement

02/A17	ASTM C109
02/A30	ASTM C266

#### Concrete

02/A01	ASTM C39
02/A02	ASTM C617
02/A41	ASTM C192
02/A43	ASTM C1064
02/A45	ASTM C42
02/G01	ASTM C31/C172/C143/C138/C231
02/G02	ASTM C173

#### Soil and Rock

02/L02	ASTM D422
02/L04	ASTM D698
02/L06	ASTM D1140
02/L08	ASTM D1557
02/L12	ASTM D2168
02/L13	ASTM D2216
02/L16	ASTM D2487
02/L20	ASTM D4318
02/L23	ASTM D2922
02/L25	ASTM D3017
02/L31	ASTM D2167

#### Standard Practices

02/A38	ASTM E329
02/A39	ASTM C1077

## NVLAP LAB CODE 100316-0

### Independent Materials Testing Laboratories, Inc.

57 N. Washington Street  
P.O. Box 745  
Plainville, CT 06062-0745  
Contact: Mr. David P. Aiudi  
Phone: 203-525-7193  
Fax: 203-747-6455

### Construction Materials Testing

Accreditation Valid Through: March 31, 1999

#### NVLAP

Code	Designation
------	-------------

#### Aggregates

02/A03	ASTM C29
02/A04	ASTM C40
02/A06	ASTM C88
02/A07	ASTM C117
02/A08	ASTM C123
02/A09	ASTM C127
02/A10	ASTM C128
02/A11	ASTM C131
02/A12	ASTM C136
02/A13	ASTM C142
02/A15	ASTM D75
02/A44	ASTM C566
02/A46	ASTM C535

#### Cement

02/A26	ASTM C191
02/A31	ASTM C305

#### Concrete

02/A01	ASTM C39
02/A02	ASTM C617
02/A40	ASTM C78
02/A41	ASTM C192
02/A43	ASTM C1064
02/A45	ASTM C42
02/G01	ASTM C31/C172/C143/C138/C231
02/G02	ASTM C173

#### Geotextiles

02/L28	ASTM D4354
--------	------------

#### Road and Paving Materials

02/M08	ASTM D979
02/M11	ASTM D1188
02/M19	ASTM D2172
02/M24	ASTM D2041
02/M25	ASTM D2726

#### Soil and Rock

02/L01	ASTM D4220
02/L02	ASTM D422
02/L04	ASTM D698
02/L05	ASTM D854
02/L06	ASTM D1140
02/L07	ASTM D1556
02/L08	ASTM D1557
02/L10	ASTM D1883
02/L11	ASTM D2166
02/L12	ASTM D2168

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

02/L13	ASTM D2216
02/L14	ASTM D2217
02/L16	ASTM D2487
02/L17	ASTM D2488
02/L20	ASTM D4318
02/L21	ASTM D2434
02/L24	ASTM D2974
02/L25	ASTM D3017
02/L29	Corps of Engineers - Manual EM-1110-2-1906, Appendix VII, Permeability of Fine Grained Soils Using a Triaxial Apparatus

**Standard Practices**

02/A38	ASTM E329
02/A39	ASTM C1077

**Steel Materials**

02/S07	ASTM E709
02/S08	ASTM E165

**NVLAP LAB CODE 100317-0****Fairfield Testing Laboratory, Inc.**

652 Glenbrook Road, P.O. 2310  
Stamford, CT 06906  
Contact: Mr. James E. Quill  
Phone: 203-372-1980  
Fax: 203-372-1898  
E-Mail: JQuill@aol.com

**Construction Materials Testing**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Aggregates**

02/A12	ASTM C136
--------	-----------

**Concrete**

02/A01	ASTM C39
02/A02	ASTM C617
02/A43	ASTM C1064
02/G01	ASTM C31/C172/C143/C138/C231
02/G02	ASTM C173

**Soil and Rock**

02/L08	ASTM D1557
02/L23	ASTM D2922
02/L25	ASTM D3017

**NVLAP LAB CODE 100319-0****PSI, Inc.**

55 State Street  
North Haven, CT 06473  
Contact: Mr. Ted Swenson  
Phone: 203-239-3353  
Fax: 203-239-3453

**Construction Materials Testing**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Aggregates**

02/A04	ASTM C40
02/A07	ASTM C117
02/A09	ASTM C127
02/A10	ASTM C128
02/A11	ASTM C131
02/A12	ASTM C136
02/A44	ASTM C566

**Concrete**

02/A01	ASTM C39
02/A43	ASTM C1064
02/G01	ASTM C31/C172/C143/C138/C231
02/G02	ASTM C173

**Soil and Rock**

02/L04	ASTM D698
02/L05	ASTM D854
02/L06	ASTM D1140
02/L07	ASTM D1556
02/L08	ASTM D1557
02/L12	ASTM D2168
02/L23	ASTM D2922
02/L25	ASTM D3017

**Standard Practices**

02/A38	ASTM E329
02/A39	ASTM C1077

**NVLAP LAB CODE 100320-0****Materials Testing, Inc.**

200 Rowe Avenue  
Milford, CT 06460  
Contact: Mr. Frank A. Soucy  
Phone: 203-878-2765  
Fax: 208-878-1504

**Construction Materials Testing**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Aggregates**

02/A03	ASTM C29
02/A04	ASTM C40
02/A06	ASTM C88
02/A07	ASTM C117
02/A08	ASTM C123
02/A09	ASTM C127
02/A10	ASTM C128
02/A11	ASTM C131
02/A12	ASTM C136

**Cement**

02/A17	ASTM C109
--------	-----------

**Concrete**

02/A01	ASTM C39
02/A02	ASTM C617
02/G01	ASTM C31/C172/C143/C138/C231
02/G02	ASTM C173

**Soil and Rock**

02/L02	ASTM D422
02/L04	ASTM D698
02/L05	ASTM D854

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

02/L06	ASTM D1140
02/L08	ASTM D1557
02/L13	ASTM D2216
02/L23	ASTM D2922
02/L31	ASTM D2167

**NVLAP LAB CODE 100322-0****Canadian Standards Association**

178 Rexdale Boulevard  
Etobicoke Ontario M9W 1R3  
CANADA  
Contact: Mr. Doug Geralde  
Phone: 416-747-4295  
Fax: 416-747-4287  
E-Mail: geraldled@csa.ca

**Commercial Products Testing**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Plumbing**

19/F01	ASME A112.18.1M (Sec. 5.2)
19/F02	ASME A112.18.1M (Sec. 5.14)
19/F03	ASME A112.18.1M (Sec. 6.2)
19/F04	ASME A112.18.1M (Sec. 6.4)
19/F05	ASME A112.18.1M (Sec. 6.5)
19/F06	ASME A112.18.1M (Sec. 6.6)
19/F07	ASME A112.18.1M (Sec. 6.7)
19/F08	ASME A112.18.1M (Sec. 6.8)
19/F09	ASME A112.18.1M (Sec. 5.13)
19/F10	ASME A112.18.1M (Sec. 6.3)
19/M01	ANSI/CABO A117.1 (Sec. 4.24)
19/M02	ASME/ANSI A112.19.7M (Sec. 5, 7)
19/M03	ASME/ANSI A112.19.8M (Sec. 4, 5)
19/M04	ASTM F446
19/P01	ANSI Z124.1 (Sec. 4, 5, 6)
19/P02	ANSI Z124.2 (Sec. 4, 5, 6)
19/P03	ANSI Z124.3 (Sec. 4, 5, 6)
19/P04	ANSI Z124.4 (Sec. 4, 5)
19/P05	ANSI Z124.4 (Sec. 8) per ASME A112.19.6M (Sec. 7.1)
19/P06	ANSI/IAPMO Z124.6 (Sec. 4, 5, 6)
19/P07	ANSI/IAPMO Z124.8 (Sec. 4, 5)
19/U01	ASME/ANSI A112.18.3M (Sec. 5.1, 12.1, 12.2, 13, 14, 16)
19/V01	ASME A112.19.2M (Sec. 7.1)
19/V02	ASME A112.19.2M (Sec. 7.2)
19/V03	ASME A112.19.2M (Sec. 7.3)
19/V04	ASME A112.19.2M (Sec. 7.4)
19/V05	ASME A112.19.2M (Sec. 7.5)
19/V06	ASME A112.19.2M (Sec. 7.7)
19/W01	ASME A112.19.6 (Sec. 7.1.2)
19/W02	ASME A112.19.6 (Sec. 7.1.3)
19/W03	ASME A112.19.6 (Sec. 7.1.4)
19/W04	ASME A112.19.6 (Sec. 7.1.5)
19/W05	ASME A112.19.6 (Sec. 7.1.6)
19/W06	ASME A112.19.6 (Sec. 7.1.7)
19/W07	ASME A112.19.6 (Sec. 7.1.8)
19/W08	ASME A112.19.6 (Sec. 7.1.9)

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 100323-0****IBM Hudson Valley Acoustics Laboratory**

Building 704, M/S P226  
522 South Road  
Poughkeepsie, NY 12601-5400  
Contact: Dr. Matthew A. Nobile  
Phone: 914-435-4959  
Fax: 914-432-9880  
E-Mail: nobile@us.ibm.com

**Acoustical Testing Services**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
08/P03	ASTM C423 (ISO 354)
08/P10	ANSI S12.31 (ISO 3741)
08/P13	ANSI S12.32 (ISO 3742)
08/P21	ISO 3745
08/P24	ANSI S12.10 (ISO 7779)
08/P38	ANSI S12.11
08/P39	ANSI S12.5 (ISO 6926)

**NVLAP LAB CODE 100325-0****City of San Jose, Materials Testing Laboratory**

696 North 6th Street, Building 200  
San Jose, CA 95112-3208  
Contact: Mr. Alberto C. Oxonian  
Phone: 408-277-4513  
Fax: 408-275-8090

**Construction Materials Testing**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Aggregates**

02/A03	ASTM C29
02/A04	ASTM C40



02/A06 ASTM C88  
 02/A07 ASTM C117  
 02/A09 ASTM C127  
 02/A10 ASTM C128  
 02/A11 ASTM C131  
 02/A12 ASTM C136  
 02/A13 ASTM C142  
 02/A15 ASTM D75  
 02/A16 ASTM D2419  
 02/A44 ASTM C566

**Cement**

02/A17 ASTM C109  
 02/A22 ASTM C183  
 02/A52 ASTM C1019

**Concrete**

02/A01 ASTM C39  
 02/A02 ASTM C617  
 02/A40 ASTM C78  
 02/A41 ASTM C192  
 02/A42 ASTM C360  
 02/A43 ASTM C1064  
 02/A45 ASTM C42  
 02/G01 ASTM C31/C172/C143/C138/C231  
 02/G02 ASTM C173

**Road and Paving Materials**

02/M01 ASTM D5  
 02/M03 ASTM D140  
 02/M05 ASTM D244  
 02/M07 ASTM D546  
 02/M08 ASTM D979  
 02/M09 ASTM D1074  
 02/M11 ASTM D1188  
 02/M12 ASTM D1559  
 02/M13 ASTM D1560  
 02/M14 ASTM D1561  
 02/M15 ASTM D1856  
 02/M17 ASTM D2170  
 02/M18 ASTM D2171  
 02/M19 ASTM D2172  
 02/M20 ASTM D2872  
 02/M24 ASTM D2041  
 02/M25 ASTM D2726

**Soil and Rock**

02/L02 ASTM D422  
 02/L05 ASTM D854  
 02/L06 ASTM D1140  
 02/L08 ASTM D1557  
 02/L12 ASTM D2168  
 02/L13 ASTM D2216  
 02/L14 ASTM D2217  
 02/L16 ASTM D2487  
 02/L20 ASTM D4318  
 02/L23 ASTM D2922  
 02/L25 ASTM D3017  
 02/L47 ASTM D2844

**Standard Practices**

02/A38 ASTM E329  
 02/A39 ASTM C1077  
 02/L32 ASTM D3740  
 02/M26 ASTM D3666

**NVLAP LAB CODE 100339-0**

**Data General Corporation**

4400 Computer Drive  
 Westboro, MA 01580  
 Contact: Mr. Joseph DeMonaco  
 Phone: 508-898-6051  
 Fax: 508-898-5413  
 E-Mail: Joe\_Demonaco@dg.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
 Devices  
 12/F01a Conducted Emissions, Power Lines, 450 KHz  
 to 30 MHz  
 12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
 measurement of radio disturbance  
 characteristics of information technology  
 equipment

**NVLAP LAB CODE 100340-0**

**Fairway Testing Company, Inc.**

Smith Street  
 P.O. Box 578  
 Stony Point, NY 10980  
 Contact: Mr. Patsy J. Aguanno  
 Phone: 914-942-2088  
 Fax: 914-942-0995

**Construction Materials Testing**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

*Aggregates*

02/A03 ASTM C29  
 02/A04 ASTM C40  
 02/A06 ASTM C88  
 02/A07 ASTM C117  
 02/A08 ASTM C123  
 02/A09 ASTM C127  
 02/A10 ASTM C128  
 02/A12 ASTM C136  
 02/A13 ASTM C142  
 02/A15 ASTM D75  
 02/A16 ASTM D2419  
 02/A44 ASTM C566



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Concrete**

02/A01	ASTM C39
02/A02	ASTM C617
02/A40	ASTM C78
02/A41	ASTM C192
02/A43	ASTM C1064
02/G01	ASTM C31/C172/CI43/CI38/C231
02/G02	ASTM C173

**Road and Paving Materials**

02/M01	ASTM D5
02/M07	ASTM D546
02/M08	ASTM D979
02/M11	ASTM D1188
02/M12	ASTM D1559
02/M15	ASTM D1856
02/M19	ASTM D2172
02/M24	ASTM D2041
02/M25	ASTM D2726

**Soil and Rock**

02/L01	ASTM D4220
02/L02	ASTM D422
02/L04	ASTM D698
02/L05	ASTM D854
02/L06	ASTM D1140
02/L07	ASTM D1556
02/L08	ASTM D1557
02/L13	ASTM D2216
02/L16	ASTM D2487
02/L17	ASTM D2488
02/L20	ASTM D4318
02/L21	ASTM D2434
02/L23	ASTM D2922
02/L25	ASTM D3017
02/L29	Corps of Engineers - Manual EM-1110-2-1906, Appendix VII, Permeability of Fine Grained Soils Using a Triaxial Apparatus

**Standard Practices**

02/A38	ASTM E329
02/A39	ASTM C1077
02/L32	ASTM D3740
02/M26	ASTM D3666

**Steel Materials**

02/S02	ASTM A370 (Sec. 14)/E190
02/S07	ASTM E709
02/S08	ASTM E165

**NVLAP LAB CODE 100347-0****Acton Environmental Testing, dba National****Technical Systems**

1146 Massachusetts Avenue  
Boxborough, MA 01719  
Contact: Mr. James Press  
Phone: 978-266-1001  
Fax: 978-266-1073

**MIL-STD-462 Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code      Designation

**Conducted Emissions:**

12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A12	MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B05	MIL-STD-462 Method CS06
12/B07	MIL-STD-462 Method CS09

**Radiated Emissions:**

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E07	MIL-STD-462 Method RS06

**NVLAP LAB CODE 100350-0****Northern Telecom Product Integrity Labs.**

21 Richardson Side Road  
Kanata Ontario K2K 2C1  
CANADA  
Contact: Mr. Rick McDonald  
Phone: 613-763-2475  
Fax: 613-763-8091  
E-Mail: McD@nortel.ca

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code      Designation

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power

	limit.; 68.310 Longitudinal balance limit.;
	68.312 On-hook impedance limit.; 68.314
	Billing protection
12/T01b	68.316 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 100351-0

**KTL Ottawa Inc.**

3325 River Road, R.R. No. 5  
Ottawa Ontario K1V 1H2  
CANADA  
Contact: Mr. Marc Beisheim  
Phone: 613-737-9680  
Fax: 613-737-9691  
E-Mail: KTL@KTLCanada.com  
URL: <http://www.ktl.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code	Designation
------	-------------

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41	TS-001
12/T42	TS-002
12/T43	TS-003
12/T44	TS-004
12/T45	TS-006
12/T46	TS-008
12/T49	TS-016

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51	AS/NZS 3548
--------	-------------

*Federal Communications Commission (FCC) Methods*

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation;
	68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.;
	68.312 On-hook impedance limit.; 68.314 Billing protection
12/T01b	68.316 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

NVLAP LAB CODE 100354-0

**Control Data Accredited OSI Test Center**

4201 Lexington Avenue North  
Arden Hills, MN 55126-6198  
Contact: Mr. Ronald D. Swan  
Phone: 612-415-4659  
Fax: 612-415-3879  
E-Mail: [Ronald.D.Swan@cdc.com](mailto:Ronald.D.Swan@cdc.com)

**GOSIP**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code	Designation
17/G03	ITU X.400-1984 MHS: P2/P1/RTS/(Session)
17/G21	ITU X.400-1988 MHS
17/G21a	ITU X.400-1988 MHS: P2/P1/RTSE/ACSE/Presentation (Session)
17/G23	ITU-T X.500-1988 DS: Directory Services-Directory Access Protocol

NVLAP LAB CODE 100357-0

**National Computing Centre Ltd.**

Oxford Road  
Manchester, M17ED  
UNITED KINGDOM  
Contact: Mrs. A. E. J. Pink  
Phone: +44 1 61 242-2257  
Fax: +44 1 61 236-9877  
E-Mail: [jane@ncc.co.uk](mailto:jane@ncc.co.uk)

**GOSIP**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code	Designation
17/G01	ISO/IEC 8571/8650/8823: FTAM/ACSE/Presentation (Session)
17/G03	ITU X.400-1984 MHS: P2/P1/RTS/(Session)
17/G05	ISO/IEC 8327: Session
17/G07	ISO/IEC 8073: Transport Class 4
17/G09	ISO/IEC 8073: Transport Class 2/Transport Class 0
17/G11	
17/G11a	ISO/IEC 8473: Connectionless Network Protocol (CLNP)
17/G11b	ISO/IEC 9542: End System-Intermediate System (ES-IS)
17/G19	ITU X.25: PLP/HDLC LAP B
17/G21	ITU X.400-1988 MHS
17/G21a	ITU X.400-1988 MHS: P2/P1/RTSE/ACSE/Presentation (Session)
17/G21b	ITU X.400-1988 MHS: P3
17/G21c	ITU X.400-1988 MHS: P3/ROSE

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

17/G21d ITU X.400-1988 MHS: P7  
17/G21e ITU X.400-1988 MHS: P7/ROSE  
17/G23 ITU-T X.500-1988 DS: Directory  
Services-Directory Access Protocol

**NVLAP LAB CODE 100374-0****Aearo Company, E-A-R-CAL Acoustical Laboratory**

7911 Zionsville Road  
Indianapolis, IN 46268-1657  
Contact: Mr. Elliott H. Berger  
Phone: 317-692-3031  
Fax: 317-692-3116  
E-Mail: eberger@compuserve.com  
URL: http://www.e-a-r.com

**Acoustical Testing Services**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

08/P26	ANSI S3.19 (ANSI S3.19-1974)
08/P27	ANSI S12.6

**NVLAP LAB CODE 100382-0****Eaton E3 Laboratory**

26201 Northwestern Highway  
P.O. Box 766  
Southfield, MI 48037-0766  
Contact: Mr. Kimball Williams  
Phone: 248-354-2845  
Fax: 248-208-2018  
E-Mail: k.williams@ieee.org

**MIL-STD-462 Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Conducted Emissions:**

12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A12	MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B05	MIL-STD-462 Method CS06
12/B07	MIL-STD-462 Method CS09

**Radiated Emissions:**

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)

12/E07	MIL-STD-462 Method RS06
--------	-------------------------

**NVLAP LAB CODE 100396-0****Criterion Technology**

1350 County Road #16  
P.O. Box 387  
Rollinsville, CO 80474  
Contact: Mr. R. Barry Wallen  
Phone: 303-682-6600  
Fax: 303-682-6672  
E-Mail: b.wallen@criteriontech.com  
URL: www.criteriontech.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 100398-0****GE Lighting- Engineering Support - NA**

1975 Noble Road  
Nela Park  
Cleveland, OH 44112-6300  
Contact: Mr. Arthur H. Lupfer  
Phone: 216-266-2365  
Fax: 216-266-6986  
E-Mail: Arthur.Lupfer@lighting.ge.com

**Energy Efficient Lighting Products**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Color Measurements**

22/C01	IES LM-58
--------	-----------

**Electrical Measurements**

22/E01	IES LM-9
22/E02	IES LM-45
22/E03	IES LM-51
22/E04	IES LM-66
22/E05	ANSI-C78.375

**Life Tests**

22/L01	IES LM-40
22/L03	IES LM-49
22/L04	IES LM-65

**Photometric Measurements**

22/P01a	IES LM-9 (Total Flux)
22/P01b	IES LM-9 (Intensity)
22/P02a	IES LM-20 (Total Flux)
22/P02b	IES LM-20 (Intensity)
22/P03a	IES LM-45 (Total Flux)
22/P03b	IES LM-45 (Intensity)
22/P04a	IES LM-51 (Total Flux)
22/P05a	IES LM-66 (Total Flux)
22/P05b	IES LM-66 (Intensity)

**NVLAP LAB CODE 100399-0**
**Philips Lighting Corporate Calibration & Standards Laboratory**

Route 3, P.O. Box 505, Houtt Road  
Fairmont, WV 26554-9484  
Contact: Dr. Ronald Gibbons  
Phone: 304-367-7608  
Fax: 304-367-7602  
E-Mail: jltfcs1@ussmlt61.snads.philips.nl

**Energy Efficient Lighting Products**

Accreditation Valid Through: June 30, 1999

**NVLAP**

*Code Designation*

**Color Measurements**

22/C01	IES LM-58
--------	-----------

**Electrical Measurements**

22/E01	IES LM-9
22/E02	IES LM-45
22/E03	IES LM-51
22/E04	IES LM-66
22/E05	ANSI-C78.375
22/E06	ANSI-C78.386
22/E07	ANSI-C78.387
22/E08	ANSI-C78.388

**Photometric Measurements**

22/P01a	IES LM-9 (Total Flux)
22/P02a	IES LM-20 (Total Flux)
22/P02b	IES LM-20 (Intensity)
22/P03a	IES LM-45 (Total Flux)
22/P03b	IES LM-45 (Intensity)
22/P04a	IES LM-51 (Total Flux)
22/P05a	IES LM-66 (Total Flux)

**NVLAP LAB CODE 100402-0**
**Intertek Testing Services NA Inc.**

3933 U.S. Route 11  
Cortland, NY 13045-0950  
Contact: Mr. Craig Davenport  
Phone: 607-758-6296  
Fax: 607-756-9891  
E-Mail: cdavenport@itsqs.com  
URL: <http://www.worldlab.com>

**Energy Efficient Lighting Products**

Accreditation Valid Through: September 30, 1999

**NVLAP**

*Code Designation*

**Color Measurements**

22/C01	IES LM-58
--------	-----------

**Electrical Measurements**

22/E01	IES LM-9
22/E02	IES LM-45
22/E03	IES LM-51
22/E04	IES LM-66
22/E05	ANSI-C78.375
22/E06	ANSI-C78.386
22/E07	ANSI-C78.387
22/E08	ANSI-C78.388

**Life Tests**

22/L03	IES LM-49
--------	-----------

**Photometric Measurements**

22/P01a	IES LM-9 (Total Flux)
22/P02a	IES LM-20 (Total Flux)
22/P03a	IES LM-45 (Total Flux)
22/P03b	IES LM-45 (Intensity)
22/P04a	IES LM-51 (Total Flux)
22/P05a	IES LM-66 (Total Flux)
22/P05b	IES LM-66 (Intensity)

**Thermal Insulation Materials**

Accreditation Valid Through: September 30, 1999

**NVLAP**

*Code Designation*

**Flammability**

01/F02	ASTM E84
--------	----------

**Thermal Resistance**

01/T06	ASTM C518
--------	-----------

**NVLAP LAB CODE 100403-0**
**Osram Sylvania Inc., Test & Measurements Laboratory**

71 Cherry Hill Dr.  
Beverly, MA 01915  
Contact: Dr. Ronald O. Daubach  
Phone: 508-750-1593  
Fax: 508-750-1794  
E-Mail: [daubach@osi.sylvania.com](mailto:daubach@osi.sylvania.com)

**Energy Efficient Lighting Products**

Accreditation Valid Through: June 30, 1999

**NVLAP**

*Code Designation*

**Color Measurements**

22/C01	IES LM-58
--------	-----------

**Electrical Measurements**

22/E01	IES LM-9
22/E02	IES LM-45
22/E03	IES LM-51
22/E04	IES LM-66
22/E05	ANSI-C78.375
22/E06	ANSI-C78.386
22/E07	ANSI-C78.387
22/E08	ANSI-C78.388

**Life Tests**

22/L01	IES LM-40
22/L02	IES LM-47
22/L03	IES LM-49



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

22/L04 IES LM-65

**Photometric Measurements**

22/P01a IES LM-9 (Total Flux)  
22/P01b IES LM-9 (Intensity)  
22/P02a IES LM-20 (Total Flux)  
22/P02b IES LM-20 (Intensity)  
22/P03a IES LM-45 (Total Flux)  
22/P03b IES LM-45 (Intensity)  
22/P04a IES LM-51 (Total Flux)  
22/P04b IES LM-51 (Intensity)  
22/P05a IES LM-66 (Total Flux)  
22/P05b IES LM-66 (Intensity)

**NVLAP LAB CODE 100404-0****Industrial Acoustics Company, Inc.,****Aero-Acoustics Laboratory**

1160 Commerce Avenue  
Bronx, NY 10462  
Contact: Mr. Jon Weinstein  
Phone: 718-931-8000  
Fax: 718-863-1138

**Acoustical Testing Services**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

08/P02	ASTM C384
08/P03	ASTM C423 (ISO 354)
08/P04	ASTMC522
08/P06	ASTM E90 (ISO 140, Part 3)
08/P08	ASTM E596
08/P30	ASTM E1408
08/P36	ASTM E477

**NVLAP LAB CODE 100405-0****Motorola SSTG EMC/TEMPEST Laboratory**

8201 E. McDowell Road  
Scottsdale, AZ 85252  
Contact: Mr. Dwayne R. Awerkamp  
Phone: 602-441-3138  
Fax: 602-441-3625  
E-Mail: p09969@email.mot.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**MIL-STD-462 Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Conducted Emissions:**

12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A10	MIL-STD-462 Method CE06
12/A12	MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B04	MIL-STD-462 Method CS03/CS04/CS05/CS08
12/B05	MIL-STD-462 Method CS06
12/B06	MIL-STD-462 Method CS07
12/B07	MIL-STD-462 Method CS09
12/B08	MIL-STD-462 Method CS10
12/B09	MIL-STD-462 Method CS11
12/B10	MIL-STD-462 Method CS12
12/B11	MIL-STD-462 Method CS13

**Radiated Emissions:**

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02
12/D03	MIL-STD-462 Method RE03

**Radiated Susceptibility:**

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E05	MIL-STD-462 Method RS05
12/E07	MIL-STD-462 Method RS06

**NVLAP LAB CODE 100406-0****Inland Foundation Engineering, Inc.**

1310 South Santa Fe Avenue  
P.O. Box 937  
San Jacinto, CA 92581-0937  
Contact: Mr. Donald O. Swenson  
Phone: 909-654-1555  
Fax: 909-654-0551



**Construction Materials Testing**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code      Designation*

**Aggregates**

02/A03    ASTM C29  
02/A04    ASTM C40  
02/A06    ASTM C88  
02/A07    ASTM C117  
02/A09    ASTM C127  
02/A10    ASTM C128  
02/A11    ASTM C131  
02/A12    ASTM C136  
02/A15    ASTM D75  
02/A16    ASTM D2419  
02/A44    ASTM C566  
02/A46    ASTM C535

**Concrete**

02/A01    ASTM C39  
02/A02    ASTM C617  
02/A41    ASTM C192  
02/A43    ASTM C1064  
02/A45    ASTM C42  
02/G01    ASTM C31/C172/C143/C138/C231

**Road and Paving Materials**

02/M08    ASTM D979  
02/M11    ASTM D1188  
02/M13    ASTM D1560  
02/M14    ASTM D1561  
02/M25    ASTM D2726

**Soil and Rock**

02/L01    ASTM D4220  
02/L02    ASTM D422  
02/L04    ASTM D698  
02/L05    ASTM D854  
02/L06    ASTM D1140  
02/L07    ASTM D1556  
02/L08    ASTM D1557  
02/L16    ASTM D2487  
02/L18    ASTM D3080  
02/L20    ASTM D4318  
02/L21    ASTM D2434  
02/L23    ASTM D2922  
02/L25    ASTM D3017  
02/L47    ASTM D2844

**Standard Practices**

02/A38    ASTM E329  
02/A39    ASTM C1077  
02/L32    ASTM D3740  
02/M26    ASTM D3666

**NVLAP LAB CODE 100408-0**

**NAWC AD 5.1.7.3. EMI Lab**

48298 Shaw Road, Unit 4, Bldg. 1461  
Patuxent River, MD 20670-1900  
Contact: Mr. Robert Smith  
Phone: 301-342-0851  
Fax: 301-342-5390  
E-Mail: smithRB@navair.navy.mil

**MIL-STD-462 Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code      Designation*

**Conducted Emissions:**

12/A01    MIL-STD-462 Method CE01  
12/A04    MIL-STD-462 Method CE02  
12/A06    MIL-STD-462 Method CE03  
12/A08    MIL-STD-462 Method CE04

**Conducted Susceptibility:**

12/B01    MIL-STD-462 Method CS01  
12/B02    MIL-STD-462 Method CS02  
12/B05    MIL-STD-462 Method CS06

**Radiated Emissions:**

12/D01    MIL-STD-462 Method RE01  
12/D02    MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E01    MIL-STD-462 Method RS01  
12/E02    MIL-STD-462 Method RS02  
12/E03    MIL-STD-462 Method RS03 (Consult  
laboratory for field strengths available)  
12/E04    MIL-STD-462 Method RS03 employing  
RADHAZ procedures for high level testing  
(Consult laboratory for field strengths  
available)

**NVLAP LAB CODE 100409-0**

**Intertek Testing Services NA Inc.**

4317-A Park Drive N.W.  
Norcross, GA 30093-2968  
Contact: Mr. David C. Dennis  
Phone: 770-925-2444  
Fax: 770-925-7294  
E-Mail: ddennis@itsqs.com  
URL: <http://www.worldlab.com>

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code      Designation*

**AUSTEL Technical Standards as determined under the  
Telecommunications Act of 1991**

12/T41    TS-001  
12/T42    TS-002  
12/T44    TS-004  
12/T45    TS-006  
12/T46    TS-008  
12/T49    TS-016

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T50 AS/NZS 3260

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital

12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection

12/T01b 68.316 Hearing Aid Compatibility: technical standards

12/T01c 68.302 Environmental simulation (Par. a,b)

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 100411-0****Northern Telecom Inc.**

2305 Mission College Boulevard

P.O. Box 58173

Santa Clara, CA 95052-8173

Contact: Mr. Kenneth Dorn

Phone: 408-565-2186

Fax: 408-565-2575

E-Mail: ken.dorn@nt.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**AUSTEL Technical Standards as determined under the Telecommunications Act of 1991**

12/T41 TS-001

12/T42 TS-002

12/T43 TS-003

12/T44 TS-004

12/T45 TS-006

12/T49 TS-016

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T50 AS/NZS 3260

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital

12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306

Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.;

68.312 On-hook impedance limit.; 68.314

Billing protection

12/T01b 68.316 Hearing Aid Compatibility: technical standards

12/T01c 68.302 Environmental simulation (Par. a,b)

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 100413-0****Digital Regulatory Engineering and Testing Services**

200 Forest Street, Mail Stop MRO1-D

Marlboro, MA 01752-3085

Contact: Ms. Diane Montvitt

Phone: 508-467-2851

Fax: 508-467-2846

URL: <http://www.digital.com/regulatory>**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 100414-0

**Underwriters Laboratories Inc.**

333 Pfingsten Road  
Northbrook, IL 60062-2096  
Contact: Mr. Rick A. Titus  
Phone: 847-272-8800 x43281  
Fax: 847-509-6219  
E-Mail: titusr@ul.com  
URL: http://www.ul.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Corrosiveness**

01/C01	ASTM C739 (Sec. 9)
01/C02	16 CFR-Part 1209.5

**Flammability**

01/F02	ASTM E84
01/F07	16 CFR-Part 1209.6
01/F08	16 CFR-Part 1209.7
01/F09	ASTM C739 (Sec. 10)
01/F10	ASTM C739 (Sec. 14)

**Mass, Density, and Dimensional Stability**

01/D01	ASTM C136
01/D14	ASTM C520
01/D24	ASTM C739 (Sec. 12)
01/D26	16 CFR-Part 1209.4
01/D27	ASTM C739 (Sec. 8)

**Related Material Properties**

01/V05	ASTM C739 (Sec. 11)
01/V06	ASTM C739 (Sec. 15)

**Thermal Resistance**

01/T06	ASTM C518
01/T09	ASTM C653
01/T10	ASTM C687

NVLAP LAB CODE 100416-0

**SGS U.S. Testing Company, Inc.**

1341 North 108th East Avenue  
Tulsa, OK 74116-5637  
Contact: Mr. Dale E. Holloway  
Phone: 918-437-8333  
Fax: 918-437-8487

**Commercial Products Testing**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Plumbing**

19/F01	ASME A112.18.1M (Sec. 5.2)
19/F02	ASME A112.18.1M (Sec. 5.14)
19/F03	ASME A112.18.1M (Sec. 6.2)
19/F04	ASME A112.18.1M (Sec. 6.4)
19/F05	ASME A112.18.1M (Sec. 6.5)
19/F06	ASME A112.18.1M (Sec. 6.6)
19/F07	ASME A112.18.1M (Sec. 6.7)
19/F08	ASME A112.18.1M (Sec. 6.8)
19/F09	ASME A112.18.1M (Sec. 5.13)
19/F10	ASME A112.18.1M (Sec. 6.3)
19/M01	ANSI/CABO A117.1 (Sec. 4.24)
19/M02	ASME/ANSI A112.19.7M (Sec. 5, 7)
19/M03	ASME/ANSI A112.19.8M (Sec. 4, 5)
19/M04	ASTM F446
19/M05	ASTM F462
19/P01	ANSI Z124.1 (Sec. 4, 5, 6)
19/P02	ANSI Z124.2 (Sec. 4, 5, 6)
19/P03	ANSI Z124.3 (Sec. 4, 5, 6)
19/P04	ANSI Z124.4 (Sec. 4, 5)
19/P05	ANSI Z124.4 (Sec. 8) per ASME A112.19.6M (Sec. 7.1)
19/P06	ANSI/IAPMO Z124.6 (Sec. 4, 5, 6)
19/P07	ANSI/IAPMO Z124.8 (Sec. 4, 5)
19/V01	ASME A112.19.2M (Sec. 7.1)
19/V02	ASME A112.19.2M (Sec. 7.2)
19/V03	ASME A112.19.2M (Sec. 7.3)
19/V04	ASME A112.19.2M (Sec. 7.4)
19/V05	ASME A112.19.2M (Sec. 7.5)
19/V06	ASME A112.19.2M (Sec. 7.7)
19/W01	ASME A112.19.6 (Sec. 7.1.2)
19/W02	ASME A112.19.6 (Sec. 7.1.3)
19/W03	ASME A112.19.6 (Sec. 7.1.4)
19/W04	ASME A112.19.6 (Sec. 7.1.5)
19/W05	ASME A112.19.6 (Sec. 7.1.6)
19/W06	ASME A112.19.6 (Sec. 7.1.7)
19/W07	ASME A112.19.6 (Sec. 7.1.8)
19/W08	ASME A112.19.6 (Sec. 7.1.9)

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Corrosiveness**

01/C01	ASTM C739 (Sec. 9)
01/C02	16 CFR-Part 1209.5



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Flammability**

01/F08 16 CFR-Part 1209.7  
01/F10 ASTM C739 (Sec. 14)

**Mass, Density, and Dimensional Stability**

01/D02 ASTM C167  
01/D18 ASTM D1622  
01/D24 ASTM C739 (Sec. 12)  
01/D26 16 CFR-Part 1209.4  
01/D27 ASTM C739 (Sec. 8)

**Related Material Properties**

01/V04 ASTM E96  
01/V05 ASTM C739 (Sec. 11)  
01/V06 ASTM C739 (Sec. 15)

**Strength**

01/S02 ASTM C203

**NVLAP LAB CODE 100417-0****Celotex Technical Center**

10301 Ninth Street North  
St. Petersburg, FL 33716-1514  
Contact: Dr. Stanley R. Prince  
Phone: 727-578-4359  
Fax: 727-578-4280  
E-Mail: sprince@celotex.com  
URL: <http://www.celotex.com>

**Acoustical Testing Services**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

08/P03	ASTM C423 (ISO 354)
08/P04	ASTMC522
08/P06	ASTM E90 (ISO 140, Part 3)
08/P07	ASTM E492
08/P30	ASTM E1408
08/P34	ASTM E1414 (AMA-1-II-67)(ISO 140, Part 9)

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Flammability**

01/F02 ASTM E84

**Mass, Density, and Dimensional Stability**

01/D03 ASTM C209 (Sec. 6)  
01/D04 ASTM C209 (Sec. 13)  
01/D05 ASTM C209 (S. 13) by D1037 (S. 100-106)  
01/D06 ASTM C209 (S. 14) by D1037 (S. 107-110)  
01/D07 ASTM C272  
01/D18 ASTM D1622  
01/D19 ASTM D2126  
01/D23 ASTM D2842

**Related Material Properties**

01/V04 ASTM E96

**Strength**

01/S01a ASTM C165 (Proc. A only)  
01/S02 ASTM C203  
01/S03 ASTM C209 (Sec. 9)  
01/S04 ASTM C209 (Sec. 10)  
01/S05 ASTM C209 (Sec. 11)  
01/S06 ASTM C209 (Sec. 12)

01/S07 ASTM C273  
01/S10 ASTM D828  
01/S11 ASTM D1621 (Proc. A)

**Thermal Resistance**

01/T04 ASTM C236  
01/T06 ASTM C518

**NVLAP LAB CODE 100418-0****Composite Panel Association (CPA)**

18928 Premiere Court  
Gaithersburg, MD 20879-1569  
Contact: Mr. Gary Heroux  
Phone: 301-670-0604  
Fax: 301-840-1252  
E-Mail: glheroux@aol.com

**Wood Based Products**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

**General Wood Products**

23/G02 ASTM D1037 (Part A, Sec. 11-20)  
23/G03 ASTM D1037 (Part A, Sec. 28-33)

**Particleboard and Medium-Density Fiberboard**

23/P02 ASTM D1037 (Part A, Sec. 61-67)  
23/P03 ASTM D1037 (Part A, Sec. 68-73)  
23/P05 ASTM D1037 (Part A, Sec. 100-106)  
23/P06 ASTM D1037 (Part A, Sec. 107-110)  
23/P08 ASTM D1037 (Part A, Sec. 126-127)  
23/P09 ANSI/A208.1 (Sec. 3.4.4)  
23/T01 ASTM E1333  
23/T03 EN 120:92  
23/T04 ASTM D5582  
23/T05 ASTM D6007

**NVLAP LAB CODE 100419-0****Test Site Services, Inc.**

P.O. Box 766  
Marlboro, MA 01752  
Contact: Mr. Richard L. Wiedeman  
Phone: 508-481-1684  
Fax: 508-481-1684

URL: <http://www.ultranet.com/ntss>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****International Special Committee on Radio Interference****(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 100420-0****Timberco, Inc.- dba TECO**

86305 College View Road

Eugene, OR 97405-9631

Contact: Mr. Darin Thompson

Phone: 541-746-8271

Fax: 541-747-1630

E-Mail: teco.tested.oregon@worldnet.att.net

**Wood Based Products**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**General Wood Products**

23/G01 ASTM D906  
23/G02 ASTM D1037 (Part A, Sec. 11-20)  
23/G03 ASTM D1037 (Part A, Sec. 28-33)  
23/G04 ASTM D2395 (Method A)  
23/G05 ASTM D2718  
23/G07 ASTM D3043 (Method C)  
23/G08 ASTM D4442 (Method A)  
23/G09 ASTM D4442 (Method B)  
23/G10 ASTM E72  
23/G11 ASTM E72 (Wet)  
23/G12 ASTM E564

**Hardwood Plywood**

23/H01 HP-1 (Sec. 4.3)  
23/H02 HP-1 (Sec. 4.4)  
23/H03 HP-1 (Sec. 4.6)  
23/H04 ASTM E96

**Particleboard and Medium-Density Fiberboard**

23/P01 ASTM D1037 (Part A, Sec. 21-27)  
23/P02 ASTM D1037 (Part A, Sec. 61-67)  
23/P03 ASTM D1037 (Part A, Sec. 68-73)  
23/P05 ASTM D1037 (Part A, Sec. 100-106)  
23/P06 ASTM D1037 (Part A, Sec. 107-110)  
23/P07 ASTM D1037 (Part A, Sec. 118-124)  
23/P08 ASTM D1037 (Part A, Sec. 126-127)  
23/P09 ANSI/A208.1 (Sec. 3.4.4)  
23/T01 ASTM E1333  
23/T02 FTM 1-83  
23/T04 ASTM D5582

**Structural Composite Lumber, Glulam, I-Joists,****Laminated Veneer Lumber**

23/J01 ASTM D143 (Sec. 47-54)  
23/J02 ASTM D143 (Sec. 90-94)  
23/J04 ASTM D198 (Sec. 4-11)  
23/J06 ASTM D905  
23/J07 ASTM D1037 (Part A, Sec. 87-90)  
23/J08 ASTM D1101  
23/J09 ASTM D1761 (Sec. 1-11)  
23/J10 ASTM D2559 (Resistance to Shear)  
23/J11 ASTM D2559 (Resistance to Delamination)

23/J12 ASTM D4688  
23/J13 AITC 200 (T106)  
23/J14 AITC 200 (T107)  
23/J15 AITC 200 (T110)  
23/J16 AITC 200 (T114)  
23/J17 AITC 200 (T116)  
23/J20 ASTM D3110

**Structural Use Panels**

23/S04 ASTM E661  
23/S05 PS-1 (Sec. 4.5.2)  
23/S06 PS-1 (Sec. 4.5.3) (CAN/CSA-0325.1-88)  
23/S07 PS-2 (Sec. 6.4.1) (CAN/CSA-0325.1-88)  
23/S08 PS-2 (Sec. 6.4.2) (CAN/CSA-0325.1-88)  
23/S09 PS-2 (Sec. 6.4.4) (CAN/CSA-0325.1-88)  
23/S10 PS-2 (Sec. 6.4.7) (CAN/CSA-0325.1-88)  
23/S11 PS-2 (Sec. 6.4.8) (CAN/CSA-0325.1-88)  
23/S12 PS-2 (Sec. 6.4.9) (CAN/CSA-0325.1-88)  
23/S13 PS-2 (Sec. 6.4.17) (CAN/CSA-0325.1-88)  
23/S14 PS-2 (Sec. 6.4.18) (CAN/CSA-0325.1-88)  
23/S15 PS-2 (Sec. 6.4.19) (Supplement No.1-92 to CAN/CSA-0325.1-88)  
23/S16 PS-2 (Sec. 6.4.20) (Supplement No.1-92 to CAN/CSA-0325.1-88)

**NVLAP LAB CODE 100421-0****PFS Corporation**

2402 Daniels Street

Madison, WI 53718-6798

Contact: Mr. James P. VanSchoyck

Phone: 608-221-3361

Fax: 608-223-5560

E-Mail: pfsteco@pfs-teco.com

URL: <http://www.pfs-teco.com>

**Wood Based Products**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**General Wood Products**

23/G01 ASTM D906  
23/G02 ASTM D1037 (Part A, Sec. 11-20)  
23/G03 ASTM D1037 (Part A, Sec. 28-33)  
23/G04 ASTM D2395 (Method A)  
23/G05 ASTM D2718  
23/G06 ASTM D2719 (Method C)  
23/G08 ASTM D4442 (Method A)  
23/G09 ASTM D4442 (Method B)  
23/G10 ASTM E72  
23/G11 ASTM E72 (Wet)  
23/G12 ASTM E564  
23/G13 ASTM E695  
23/G14 AFG-01-84 (Sec. 3.1)  
23/G15 AFG-01-84 (Sec. 3.2)  
23/G16 ASTM E489  
23/G17 ASTM E767  
23/G18 ASTM D1761 (Sec. 41-52)

**Hardwood Plywood**

23/H01 HP-1 (Sec. 4.3)  
23/H02 HP-1 (Sec. 4.4)  
23/H03 HP-1 (Sec. 4.6)  
23/H04 ASTM E96



**Particleboard and Medium-Density Fiberboard**

23/P01	ASTM D1037 (Part A, Sec. 21-27)
23/P02	ASTM D1037 (Part A, Sec. 61-67)
23/P03	ASTM D1037 (Part A, Sec. 68-73)
23/P04	ASTM D1037 (Part A, Sec. 81-86)
23/P05	ASTM D1037 (Part A, Sec. 100-106)
23/P06	ASTM D1037 (Part A, Sec. 107-110)
23/P07	ASTM D1037 (Part A, Sec. 118-124)
23/P08	ASTM D1037 (Part A, Sec. 126-127)
23/P09	ANSI/A208.1 (Sec. 3.4.4)
23/T01	ASTM E1333
23/T02	FTM I-83
23/T04	ASTM D5582

**Sandwich Constructions**

23/X01	ASTM C273
23/X02	ASTM C297
23/X03	ASTM C365 (Method A)
23/X04	ASTM C393
23/X05	ASTM C480
23/X06	ASTM C481
23/X07	ASTM D1183

**Structural Composite Lumber, Glulam, I-Joists,**

**Laminated Veneer Lumber**

23/J01	ASTM D143 (Sec. 47-54)
23/J02	ASTM D143 (Sec. 90-94)
23/J03	ASTM D143 (Sec. 100-104)
23/J04	ASTM D198 (Sec. 4-11)
23/J06	ASTM D905
23/J07	ASTM D1037 (Part A, Sec. 87-90)
23/J08	ASTM D1101
23/J09	ASTM D1761 (Sec. 1-11)
23/J10	ASTM D2559 (Resistance to Shear)
23/J11	ASTM D2559 (Resistance to Delamination)
23/J12	ASTM D4688
23/J13	AITC 200 (T106)
23/J14	AITC 200 (T107)
23/J15	AITC 200 (T110)
23/J16	AITC 200 (T114)
23/J17	AITC 200 (T116)
23/J20	ASTM D3110

**Structural Use Panels**

23/S01	ASTM D3044
23/S03	ASTM D3501 (Method B)
23/S04	ASTM E661
23/S05	PS-1 (Sec. 4.5.2)
23/S06	PS-1 (Sec. 4.5.3) (CAN/CSA-0325.1-88)
23/S07	PS-2 (Sec. 6.4.1) (CAN/CSA-0325.1-88)
23/S08	PS-2 (Sec. 6.4.2) (CAN/CSA-0325.1-88)
23/S09	PS-2 (Sec. 6.4.4) (CAN/CSA-0325.1-88)
23/S10	PS-2 (Sec. 6.4.7) (CAN/CSA-0325.1-88)
23/S11	PS-2 (Sec. 6.4.8) (CAN/CSA-0325.1-88)
23/S12	PS-2 (Sec. 6.4.9) (CAN/CSA-0325.1-88)
23/S13	PS-2 (Sec. 6.4.17) (CAN/CSA-0325.1-88)
23/S14	PS-2 (Sec. 6.4.18) (CAN/CSA-0325.1-88)
23/S15	PS-2 (Sec. 6.4.19) (Supplement No.1-92 to CAN/CSA-0325.1-88)
23/S16	PS-2 (Sec. 6.4.20) (Supplement No.1-92 to CAN/CSA-0325.1-88)

NVLAP LAB CODE 100422-0

**PRIMES (Preflight Integration of Munitions & Electronic Systems)**

46 TW/TSWW  
401 W. Choctawhatchee Ave, Suite 265  
Eglin Air Force Base, FL 32542-5724  
Contact: Mr. Charles Steadman  
Phone: 850-882-9354 x509  
Fax: 850-882-9357  
E-Mail: steadman@eglin.af.mil

**MIL-STD-462 Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code      Designation

**Conducted Emissions:**

12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A10	MIL-STD-462 Method CE06
12/A12	MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B04	MIL-STD-462 Method CS03/CS04/CS05/CS08
12/B05	MIL-STD-462 Method CS06
12/B06	MIL-STD-462 Method CS07
12/B07	MIL-STD-462 Method CS09
12/B08	MIL-STD-462 Method CS10
12/B09	MIL-STD-462 Method CS11
12/B10	MIL-STD-462 Method CS12
12/B11	MIL-STD-462 Method CS13

**Radiated Emissions:**

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02
12/D03	MIL-STD-462 Method RE03

**Radiated Susceptibility:**

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E05	MIL-STD-462 Method RS05
12/E07	MIL-STD-462 Method RS06

## NVLAP LAB CODE 100423-0

**APA - The Engineered Wood Association**
**Research Center**

7011 South 19th Street

P.O. Box 11700

Tacoma, WA 98411-0700

Contact: Mr. Michael R. O'Halloran, Ph.D.

Phone: 253-565-6600

Fax: 253-565-7265

E-Mail: mike.ohalloran@apawood.org

URL: http://www.apawood.org

**Wood Based Products**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**General Wood Products**

23/G05 ASTM D2718

23/G06 ASTM D2719 (Method C)

23/G07 ASTM D3043 (Method C)

23/G10 ASTM E72

23/G11 ASTM E72 (Wet)

**Structural Composite Lumber, Glulam, I-Joists,**
**Laminated Veneer Lumber**

23/J04 ASTM D198 (Sec. 4-11)

23/J05 ASTM D198 (Sec. 28-35)

23/J09 ASTM D1761 (Sec. 1-11)

23/J10 ASTM D2559 (Resistance to Shear)

23/J11 ASTM D2559 (Resistance to Delamination)

23/J12 ASTM D4688

**Structural Use Panels**

23/S01 ASTM D3044

23/S02 ASTM D3500 (Method B)

23/S03 ASTM D3501 (Method B)

23/S04 ASTM E661

23/S07 PS-2 (Sec. 6.4.1) (CAN/CSA-0325.1-88)

23/S08 PS-2 (Sec. 6.4.2) (CAN/CSA-0325.1-88)

23/S09 PS-2 (Sec. 6.4.4) (CAN/CSA-0325.1-88)

23/S10 PS-2 (Sec. 6.4.7) (CAN/CSA-0325.1-88)

23/S11 PS-2 (Sec. 6.4.8) (CAN/CSA-0325.1-88)

23/S12 PS-2 (Sec. 6.4.9) (CAN/CSA-0325.1-88)

23/S13 PS-2 (Sec. 6.4.17) (CAN/CSA-0325.1-88)

23/S14 PS-2 (Sec. 6.4.18) (CAN/CSA-0325.1-88)

23/S15 PS-2 (Sec. 6.4.19) (Supplement No.1-92 to  
CAN/CSA-0325.1-88)

23/S16 PS-2 (Sec. 6.4.20) (Supplement No.1-92 to  
CAN/CSA-0325.1-88)

## NVLAP LAB CODE 100424-0

**Vibro-Acoustics Laboratory**

727 Tapscott Road

Scarborough Ontario M1X 1A2

CANADA

Contact: Mr. Robert Gault

Phone: 416-291-7371

Fax: 416-291-8049

E-Mail: bqault@vibro-acoustics.com

**Acoustical Testing Services**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

08/P36 ASTM E477

## NVLAP LAB CODE 100425-0

**Johns Manville Technical Center**

10100 West Ute Avenue

P.O. Box 625005

Littleton, CO 80162-5005

Contact: Mr. Mark A. Albers

Phone: 303-978-5008

Fax: 303-978-3123

E-Mail: albersm@jm.com

URL: http://www.schuller.com/mtc/appliedtech.html

**Acoustical Testing Services**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

08/P03 ASTM C423 (ISO 354)

08/P04 ASTM C522

08/P06 ASTM E90 (ISO 140, Part 3)

08/P10 ANSI S12.31 (ISO 3741)

08/P13 ANSI S12.32 (ISO 3742)

08/P24 ANSI S12.10 (ISO 7779)

08/P33 ASTM E1111

08/P34 ASTM E1414 (AMA-1-II-67)(ISO 140, Part 9)

08/P35 ASTM E1050

08/P36 ASTM E477

**Thermal Insulation Materials**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Flammability**

01/F01 TAPPI T461-OM

01/F02 ASTM E84

01/F05 ASTM E136

**Mass, Density, and Dimensional Stability**

01/D02 ASTM C167

01/D03 ASTM C209 (Sec. 6)

01/D04 ASTM C209 (Sec. 13)

01/D05 ASTM C209 (S. 13) by D1037 (S. 100-106)

01/D08 ASTM C302

01/D09 ASTM C303

01/D11 ASTM C356

01/D12 ASTM C411

01/D13 ASTM C519

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Related Material Properties**

01/V04 ASTM E96  
01/V07 ASTM C1104/C1104M

**Strength**

01/S01a ASTM C165 (Proc. A only)  
01/S02 ASTM C203  
01/S03 ASTM C209 (Sec. 9)  
01/S04 ASTM C209 (Sec. 10)  
01/S05 ASTM C209 (Sec. 11)  
01/S06 ASTM C209 (Sec. 12)  
01/S08 ASTM C446  
01/S10 ASTM D828

**Thermal Resistance**

01/T01 ASTM C177  
01/T05 ASTM C335  
01/T06 ASTM C518  
01/T10 ASTM C687  
01/T11 ASTM C976

**NVLAP LAB CODE 100426-0****KTL Dallas, Inc.**

802 N. Kealy  
Lewisville, TX 75057-3136  
Contact: Ms. Pat Wellborn  
Phone: 972-436-9600  
Fax: 972-436-2667  
E-Mail: pwellborn@icomply.com  
URL: <http://www.icomply.com> or <http://www.ktl.com>

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**AUSTEL Technical Standards as determined under the Telecommunications Act of 1991**

12/T41	TS-001
12/T42	TS-002
12/T43	TS-003
12/T44	TS-004
12/T45	TS-006
12/T46	TS-008
12/T49	TS-016

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T50	AS/NZS 3260
12/T51	AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314

**Billing protection**

12/T01b	68.316 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 100427-0****Michael & Associates**

246 Woodland Drive  
State College, PA 16803  
Contact: Mr. Kevin Michael  
Phone: 814-234-7042  
Fax: 814-235-1381  
E-Mail: Michael1@vicon.net  
URL: <http://www.michael1@vicon.net>

**Acoustical Testing Services**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

08/P26	ANSI S3.19 (ANSI S3.19-1974)
08/P27	ANSI S12.6

**NVLAP LAB CODE 100428-0****Matsushita EMC Center**

Yunitopia Sasayama, Yashiro  
Sasayama-cho  
Taki-gun, Hyogo 669-2356  
JAPAN  
Contact: Mr. Katsuo Ishihara  
Phone: 81-795-52-5681  
Fax: 81-795-52-5682  
E-Mail: PAN02796@pas.mei.co.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---



NVLAP LAB CODE 100429-0

**Queen Carpet Test Laboratory**

2305 Lakeland Road, P.O. Box 1527  
Dalton, GA 30722-1527  
Contact: Mr. Brian Medlin  
Phone: 706-277-1900  
Fax: 706-277-5497

**Carpet and Carpet Cushion**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code	Designation
------	-------------

**Tests Applicable to Carpet and Carpet Cushion**

03/T01	AATCC 16 (Option E)
03/T02	ASTM D2646 (Secs. 16-24)
03/T04	16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G04	AATCC 165
03/G05	ASTM D418 (Sec. 8)
03/G06	ASTM D418 (Sec. 9)
03/G07	ASTM D418 (Secs. 10-11)
03/G08	ASTM D418 (Sec. 13)
03/G09	ASTM D1335
03/G10	ASTM D3936
03/G12	ASTM E648

NVLAP LAB CODE 100430-0

**Professional Service Industries, Inc., Pittsburgh**

**Test. Lab. Div.**

2710 West 5th Avenue  
Eugene, OR 97402  
Contact: Mr. Randy T. Webb  
Phone: 541-484-9212  
Fax: 541-344-2735  
E-Mail: randy.webb@psi-inc.com

**Wood Based Products**

Accreditation Valid Through: March 31, 1999

*NVLAP*

Code	Designation
------	-------------

**General Wood Products**

23/G02	ASTM D1037 (Part A, Sec. 11-20)
23/G03	ASTM D1037 (Part A, Sec. 28-33)
23/G08	ASTM D4442 (Method A)
23/G10	ASTM E72
23/G11	ASTM E72 (Wet)

**Hardwood Plywood**

23/H01	HP-1 (Sec. 4.3)
23/H02	HP-1 (Sec. 4.4)
23/H03	HP-1 (Sec. 4.6)

**Particleboard and Medium-Density Fiberboard**

23/P04	ASTM D1037 (Part A, Sec. 81-86)
23/P05	ASTM D1037 (Part A, Sec. 100-106)
23/P06	ASTM D1037 (Part A, Sec. 107-110)
23/P07	ASTM D1037 (Part A, Sec. 118-124)
23/P08	ASTM D1037 (Part A, Sec. 126-127)
23/P09	ANSI/A208.1 (Sec. 3.4.4)
23/T01	ASTM E1333

23/T02 FTM 1-83

**Structural Use Panels**

23/S04	ASTM E661
23/S05	PS-1 (Sec. 4.5.2)
23/S06	PS-1 (Sec. 4.5.3) (CAN/CSA-0325.1-88)
23/S07	PS-2 (Sec. 6.4.1) (CAN/CSA-0325.1-88)
23/S08	PS-2 (Sec. 6.4.2) (CAN/CSA-0325.1-88)
23/S09	PS-2 (Sec. 6.4.4) (CAN/CSA-0325.1-88)
23/S10	PS-2 (Sec. 6.4.7) (CAN/CSA-0325.1-88)
23/S11	PS-2 (Sec. 6.4.8) (CAN/CSA-0325.1-88)
23/S12	PS-2 (Sec. 6.4.9) (CAN/CSA-0325.1-88)
23/S13	PS-2 (Sec. 6.4.17) (CAN/CSA-0325.1-88)
23/S14	PS-2 (Sec. 6.4.18) (CAN/CSA-0325.1-88)
23/S15	PS-2 (Sec. 6.4.19) (Supplement No.1-92 to CAN/CSA-0325.1-88)
23/S16	PS-2 (Sec. 6.4.20) (Supplement No.1-92 to CAN/CSA-0325.1-88)

NVLAP LAB CODE 100431-0

**PCTEST Engineering Laboratory, Inc.**

6660-B Dobbin Road  
Columbia, MD 21045-4708  
Contact: Mr. Randy Ortanez  
Phone: 410-290-6652  
Fax: 410-290-6654  
E-Mail: randy@pctestlab.com  
URL: <http://www.pctestlab.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL**

**Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

NVLAP LAB CODE 100432-0

**InfoGard Laboratories, Inc.**

641 Higuera Street, Second Floor  
San Luis Obispo, CA 93401  
Contact: Ms. Emily Culligan  
Phone: 805-783-0810  
Fax: 805-783-0889  
E-Mail: eculligan@infogard.com  
URL: <http://www.infogard.com>

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

**Cryptographic Modules Testing**

Accreditation Valid Through: June 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
I7/C01	NIST-CSTT:140-I; National Institute of Standards and Technology-Cryptographic Support Test Tool (CSTT) for the Federal Information Processing Standard 140-1 (FIPS 140-1) "Security Requirements for Cryptographic Modules."
I7/C01a	Test Method Group 1: All test methods derived from FIPS 140-1 and specified in the CSTT, except those listed in Group 2 and Group 3.
I7/C01b	Test Method Group 2: Test methods for Physical Security, Level 4 derived from FIPS 140-1 and specified in the CSTT
I7/C01c	Test Method Group 3: Test methods for Software Security, Level 4 derived from FIPS 140-1 and specified in the CSTT

---

**NVLAP LAB CODE 100501-0****Baltimore Gas & Electric Company**

1650 Calvert Cliffs Parkway  
Lusby, MD 20657-4702  
Contact: Mr. Danny R. Adams  
Phone: 410-495-2216  
Fax: 410-495-2263

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802 in a Panasonic UD874A holder for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

---

**NVLAP LAB CODE 100502-0****Union Electric Company, Callaway Plant**

P.O. Box 620  
Fulton, MO 65251-0620  
Contact: Mr. Christopher C. Graham  
Phone: 573-676-8380  
Fax: 573-676-4476  
E-Mail: ccgraham@cal.ameren.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to

process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD-802-AS in a Panasonic UD-874A holder for ANSI HPS N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

---

**NVLAP LAB CODE 100503-0****Mallinckrodt Group, Inc.**

2703 Wagner Place  
Maryland Heights, MO 63043  
Contact: Mr. Roger Moroney  
Phone: 314-654-7457  
Fax: 314-654-7998  
E-Mail: roger.moroney@mkg.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Harshaw automatic reader model 6600E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Harshaw TLD model 8825 for ANSI-N13.11 categories II, IIIB, IV, VC, VI, VII.

---

**NVLAP LAB CODE 100504-0****Naval Dosimetry Center**

National Naval Medical Center  
Bethesda, MD 20889-5614  
Contact: CAPT K. Mendenhall  
Phone: 301-295-0142/5410  
Fax: 301-295-5981  
E-Mail: kmendenhall@navdoscen.med.navy.mil

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing the Harshaw automatic reader models 8800 and 6600.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 and ANSI HPS N13.32-1995 through testing.



Harshaw 8801 (DT 648/PD)(Harshaw 4 Chip Card, 3 TLD700, 1 TLD600) in a Type 88 holder for ANSI-N13.11 categories I, II, IIIA, IIIB, IV, VA, VI, VII, VIII.

Harshaw extremity TLD XD-100 in a finger ring holder for ANSI HPS N13.32 (NIST Handbook 150-4, Table 2) categories I, II, IIIB, IV, VA.

---

**NVLAP LAB CODE 100505-0****Duke Power Company Dosimetry Laboratory**

526 South Church Street  
P.O. Box 1006  
Charlotte, NC 28201-1006  
Contact: Mr. Donald N. Mei  
Phone: 704-382-7547  
Fax: 704-382-4477  
E-Mail: dnmei@duke-energy.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Model 8800.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Harshaw TLD card Type 8801 in a model 8814 BGN holder for ANSI-N13.11 categories I, II, IIIA, IV, VB, VI, VII, VIII.

---

**NVLAP LAB CODE 100506-0****Southern California Edison**

San Onofre Nuclear Generating Station  
5000 Pacific Coast Highway, P.O. Box 128  
San Clemente, CA 92674-0128  
Contact: Mr. James Rolph  
Phone: 949-368-7050  
Fax: 949-368-6049  
E-Mail: rolphjt@songs.sce.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS-N13.11-1993 through testing.

Panasonic TLD model UD802-AS2 in an ISA model 821 holder for ANSI-N13.11 categories I, II, IIIB, IV, VC, VI, VII.

---

**NVLAP LAB CODE 100510-0****GPU Nuclear Corp.**

Three Mile Island, Route 441 South  
P.O. Box 480  
Middletown, PA 17057-0480  
Contact: Mr. J. W. Schmidt  
Phone: 717-948-8744  
Fax: 717-948-8549

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic automatic reader model UD-710A.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AS2 in an ISA model 830 hanger for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII.

Panasonic TLD model UD802-AS2N in an ISA model 830 hanger with Cd over elements 1 and 2, Pb filtration oven element 4 for ANSI-N13.11 category VIII.

---

**NVLAP LAB CODE 100512-0****Radiation Detection Company**

162 N. Wolfe Road  
P.O. Box 3414  
Sunnyvale, CA 94088-3414  
Contact: Mr. Richard H. Holden  
Phone: 408-735-8700  
Fax: 408-735-0126  
E-Mail: BaLaing@aol.com  
URL: <http://www.RadiationDetection.com>

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) Teledyne 7300 and 310 reader; (2) Harshaw 3000A and 3500 reader; (3) Victoreen 2800 reader; (4) by manual film processing and reading on a Macbeth TD932 densitometer; (5) Tracketch; or (6) NE Autoscan 60 system and Ziess microscope.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

## INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

DESIGNATION	PROCESS	ANSI-N13.11 CATEGORIES	
Hi Energy Photons TLD-100 powder (Type 06 & 09)	1*	II, IV	process the radiation dosimeters listed below through employing a Panasonic automatic reader model UD710A.  This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS-N13.11-1993 through testing.
Lo Energy Photons TLD-100 powder & chips (Type 06 & 09)	1*	I, IIIA, VI	Panasonic TLD model UD802-AS in an ISA Model 821 hanger for ANSI-N13.11 categories I, II, IIIB, IV, VA, VI, VII.
TLD Albedo (Type 22)	2 or 3,4	VIII	Panasonic TLD model UD812A-5 in a Panasonic UD874A-T hanger for ANSI-N13.11 categories I, II, IV, V, VII.
Film XBG (Type 01)	4	I, II, IIIA, IIIB, IV, VA, VI, VII	Combination Panasonic TLD model UD812A-5 and UD809-AS in a Panasonic UD884A-T holder with cd shields for ANSI-N13.11 category VIII.
Neutron Tracketch CR-39 (Type 23)	5	VIII	
Neutron Tracketch PN-3 (Type 23)	6	VIII	
Beta/gamma Albedo TLD (Type 23)	2,3	II, IV, VA, VII	
TLD-Beta/gamma-TLD 100 powder & chips (Type 30)	1,2 or 3	I, IIIA, IIIB, VA, VB, VI	
TLD-Beta/gamma-TLD 100 powder & chips (Type 9)	1,2	VA, VII	

\* Processes listed above, 2 and 3, are considered functionally acceptable as substitutes which can be used in lieu of process 1 as listed above.

Extremity Finger Ring Type 05 Harshaw TLD-100 dosimeter for ANSI HPS N13.32-1995 and NIST Handbook 150-4, table 2 categories II, IVA, IVB, VA through testing.

### NVLAP LAB CODE 100514-0

#### Ginna Nuclear Station

1503 Lake Road  
Ontario, NY 14519-9742  
Contact: Mr. William H. Thomson  
Phone: 716-771-3323  
Fax: 716-771-3905

#### Ionizing Radiation Dosimetry

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to

### NVLAP LAB CODE 100515-0

#### Eberline Dosimetry Service

7021 Pan American Highway NE  
Albuquerque, NM 87109  
Contact: Mr. Ernest A. Sanchez  
Phone: 505-345-3461  
Fax: 505-761-5410  
E-Mail: nutech@flash.net

#### Ionizing Radiation Dosimetry

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Eberline manual reader TLR-6 and the Harshaw automatic readers model 8800 and 6600.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Eberline TLD-100 (2 or 3 TLD chips) for ANSI-N13.11 categories I, II, IIIA, IIIB, IV, VA, VI, VII, VIII.

Eberline Albedo TLD-100 for ANSI-N13.11 category VIII.

Eberline TLD-100 extremity dosimeter in an elastic ring holder for ANSI HPS N13.32 and NIST Handbook 150-4, table 2 categories I, II, IIIA, IV, VA.

Harshaw TLD-8814 for ANSI-N13.11 categories I, II, IIIA, IIIB, IV, VC, VI, VII.

Harshaw TLD-8806 for ANSI-N13.11 category VIII.

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****NVLAP LAB CODE 100516-0****Tennessee Valley Authority External Dosimetry Service**

Sequoyah Access Road, P.O. Box 2000  
Soddy-Daisy, TN 37379-2000  
Contact: Mr. Mark A. Palmer  
Phone: 423-843-8857  
Fax: 423-843-7133  
E-Mail: MAPALMER@TVA.GOV

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AS in a Panasonic UD874AT holder for ANSI HPS N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

**NVLAP LAB CODE 100517-0****Carolina Power & Light Company, Harris Energy & Enviro. Center**

3932 New Hill-Holleman Road  
P.O. Box 327  
New Hill, NC 27562-0327  
Contact: Mr. A. G. Cheatham  
Phone: 919-362-3215  
Fax: 919-362-3354  
E-Mail: gooch.cheatham@cplc.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the TLD radiation dosimeters listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS-N13.11-1993 and HPS ANSI-N13.32-1995 through testing.

Panasonic TLD model UD802 in a Panasonic closed type UD-874 ATM1 holder for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

Panasonic extremity TLD model UD-807 in a plastic ring holder for HPS ANSI-13.32 (NIST Handbook 150-4, table 2) category IVA.

Merlin Gerin DMC-100 Electronic Personal Dosimeter

(EPD) with LDM-101 reader for ANSI N13.11 category IV.

Based on equivalency, the Panasonic TLD model UD802 in a wrist holder for HPS ANSI-13.32 (NIST Handbook 150-4, table 2) categories I, II, IIIA, IV, VC, VI, VII.

Based on equivalency, the DMC-100 Electronic Personal Dosimeter (EPD) in a wrist holder for HPS ANSI-13.32 (NIST Handbook 150-4, table 2) category IV.

**NVLAP LAB CODE 100518-0****Landauer, Inc.**

2 Science Road  
Glenwood, IL 60425-1586  
Contact: Dr. R. Craig Yoder  
Phone: 708-755-7000  
Fax: 708-755-7011  
E-Mail: cyoder@landauerinc.com  
URL: <http://www.landauerinc.com>

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) Landauer (Kanars Data) automatic film reader; (2) Harshaw 2000 B/D Laser reader; (3) CR-39 manual optical readers; (4) manual densitometers X-Rite, Tech/Ops Model 301, Macbeth Model TD504, TD931, TD904; (5) ALNOR Dosacus reader; or (6) Landauer Custom Automated and Manual Delayed Optically Stimulated Luminescence (DOSL) Luxel reader and (7) Pulsed Optically Stimulated Luminescence (POSL).

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Landauer designation:

DOSIMETER	PROCESS	ANSI N13.11	
		CATEGORY	
		Based On Testing	Based On Tech. Equiv.
FILM			
G - Film "GARDRAY"(A)	1,4	I-VII	
R - G badge plus ER(G)	1,2,3,4	VIII	I-VII
R - G badge plus ALNOR ER(M)	1,3,4,5	VIII	I-VII
B - G badge plus CR 39(L)	1,3,4	VIII	I-VII

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

C - G badge plus CR-39 and Cadmium	1,3,4		I-VIII	Landauer, Inc. Company Offices: El Segundo, California; Houston, Texas; and East Brunswick, New Jersey.
J - G badge plus polycarbonate and Cadmium	1,3,4		I-VIII	This facility has been accredited to process the extremity dosimeters listed below, by virtue of actual demonstration of compliance with ANSI-N13.32-1995 and NIST Handbook 150-4, Pg. 14, Table 2, through employing the following readers/process: (1) Landauer Custom Automated, (2) Kanars Data Custom Automated (film), (3) Alnor Dosacus Automatic Reader, (4) Harshaw 2000B/D, 3000, 4000 manual, (5) Macbeth TD504, TD904, TD931 manual, and (6) Landauer Custom Luxel reader (7) Pulsed Optically Stimulated Luminescence (POSL).
Y - G badge plus Cadmium	1,3,4		I-VII	
Q - DEX-RAY	1,3,4		I-VII	
TLD				
K - ALNOR (TLD 100 chips)(K)(H)	5		I-VII	
W - modified - 2 chip Escort with x-ray filtration (J)	2		I, II	
Z - K badge (TLD 700 chips) plus Neutron Track Etch CR39(T)(I)	3,5	VIII	I-VII	
F - L badge plus CR-39	1,3		I-VIII	
F - L badge plus ER	1,2,3		I-VIII	
L - 4 chip Alnor TLD	5		I-VII	
M - K badge (TLD 700 chips)	5		I-VII	
S - K badge (TLD 700 chips) plus ER	3,5		I-VIII	
Z - K badge (TLD 700 chips) plus polycarbonate	3,5		I-VIII	
DOSL				
H-Luxel type H	6		I-VII	VIII
POSL				
J-Luxel (003/POSL)	7		VIII	
P-Luxel (003/POSL)	7		I, II, IIIA, IV VC, VI, VII	
The following sites are included to perform limited volume, emergency response processing employing either a Harshaw 3000 manual reader or manual film processing techniques for the following badges:				
DOSIMETER				
G - Film "GARDRAY"				
L - TLD 4 chip "ALNOR"				
K - TLD 3 chip "ALNOR"				
ANSI N13.11 CATEGORY				
I through VII				
I through VII				
I through VII				
ANSI N13.11 CATEGORY				
DOSIMETER				
G - Film "GARDRAY"				
L - TLD 4 chip "ALNOR"				
K - TLD 3 chip "ALNOR"				
ANSI N13.11 CATEGORY				
I through VII				
I through VII				
I through VII				



**NVLAP LAB CODE 100519-0**

**South Texas Project Dosimetry Laboratory**

P.O. Box 289  
Wadsworth, TX 77483  
Contact: Mr. G. T. Powell  
Phone: 512-972-7566  
Fax: 512-972-7757  
E-Mail: gtpowell@stpegs.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS-N13.11-1993 through testing.

Panasonic TLD Model UD802-AT in an ISA Model 830 holder for ANSI-N13.11 categories II, IV, VC, VI, VII.

Panasonic TLD Model UD802-AT in an ISA Model 810 holder for ANSI-N13.11 category VIII.

Panasonic TLD Model UD802/Neutron Pack in a Model ISA 830/ISA 810 holder for ANSI-N13.11 category VIII.

**NVLAP LAB CODE 100521-0**

**Duquesne Light Company, Beaver Valley Power Station**

Mail Drop BV-ERF  
P.O. Box 4  
Shippingport, PA 15077-0004  
Contact: Mr. John T. Lebda  
Phone: 412-393-5872  
Fax: 412-393-5621  
E-Mail: John\_T\_Lebda@dlc.dqe.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD812-AS2 for ANSI-N13.11 categories I, II, IIIA, IIIB, IV, VA, VB, VC, VI, VII.

The dosimeter is housed in a custom made plastic clam shell type holder with filtering of 4mg/cm<sup>2</sup> mylar over

elements 1 & 2, 140 mg/cm<sup>2</sup> plastic over element 3, and 840 mg/cm<sup>2</sup> plastic over element 4.

Rados RAD-51R Electronic Dosimeter for ANSI N13.11 categories IIIB and IV.

**NVLAP LAB CODE 100524-0**

**Duke Engineering and Services Environmental Laboratory**

580 Main Street  
Bolton, MA 01740-1398  
Contact: Mr. Edward F. Maher, Sc.D  
Phone: 978-568-2522  
Fax: 978-568-2520  
E-Mail: EHMaher@dukeengineering.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic automatic reader model 710A.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model 808 in a ISA model 830U holder for ANSI-N13.11 categories I, II, IIIA, IIIB, IV, VA, VB, VC, VI, VII.

Panasonic TLD model 814-AS4 for ANSI-N13.11 categories I, II, IIIA, IIIB, IV, VA, VB, VC, VI, VII.

Panasonic TLD models UD808/UD814 combined for category VIII.

**NVLAP LAB CODE 100528-0**

**TU Electric-Comanche Peak Steam Electric Station**

5 mi. NW Glen Rose off FM 56  
P.O. Box 1002  
Glen Rose, TX 76043  
Contact: Mr. John R. Curtis  
Phone: 254-897-5332  
Fax: 254-897-0972  
E-Mail: jcurtis@tuelectric.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance

## INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AT in an ISA 810 holder with Mylar-window for ANSI-N13.11 categories IIIB, IV, VB, VI, VII, VIII.

### NVLAP LAB CODE 100529-0

#### **Detroit Edison, Fermi 2 Dosimetry Laboratory**

6400 North Dixie Highway, 100 AIB

Newport, MI 48166

Contact: Mr. Ronald Gillmore

Phone: 734-586-1388

Fax: 734-586-1041

E-Mail: gillmorer@dteenergy.com

#### **Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS-N13.11-1993 through testing.

Panasonic TLD model UD802-AS in an ISA-820 holder for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

### NVLAP LAB CODE 100535-0

#### **Entergy Operations, Inc.**

Waterford 3, Hwy. 18, River Road

Taft, LA 70066

Contact: Mr. Ronald C. McLendon

Phone: 504-464-3199

Fax: 504-464-3151

#### **Ionizing Radiation Dosimetry**

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AS in a Panasonic 874A holder for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

### NVLAP LAB CODE 100536-0

#### **Arizona Public Service Co., Palo Verde Nuclear Generating Station**

5801 S. Wintersburg Road, Station 6107

Tonopah, AZ 85354-7529

Contact: Mr. Michael W. Lantz

Phone: 602-393-5200

Fax: 602-393-5003

E-Mail: mlantz@apsc.com

URL: <http://www.apsc.com/dosim.asp>

#### **Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD812-AS5 in an ISA holder with an open window over element 1 for ANSI-N13.11 categories I, II, IIIB, IV, VC, VI, VII.

Panasonic TLD combination UD809/UD812-AS in a Panasonic UD885A-T holder for ANSI-N13.11 category VIII.

Panasonic TLD model UD812-AS5 in a single use holder for ANSI-N13.11 categories I, II, IIIB, IV, VC, VI, VII.

Panasonic TLD model UD809AS/UD812 combination in a single use holder for ANSI-N13.11 categories VIII.

Merlin Gerlin DMC-100 Electronic Personnel Dosimeter for ANSI-N13.11 categories IIIB, IV, VI.

### NVLAP LAB CODE 100537-0

#### **Pacific Gas & Electric Company, Diablo Canyon Nuclear Power Plant**

P.O. Box 56

Avila Beach, CA 93424

Contact: Mr. Mark O. Somerville

Phone: 805-545-4007

Fax: 805-545-6645

E-Mail: mos3@pge.com

#### **Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following

## INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AS in a Panasonic UD875AT holder for ANSI-N13.11 categories II, IIIA, IV, VA, VI, VII, VIII.

Combination Panasonic TLD model UD813-AS8 in a Panasonic UD885AT holder for ANSI-N13.11 category VIII.

---

### NVLAP LAB CODE 100538-0

#### Con Edison, Indian Point

Broadway and Bleakley Avenue  
Buchanan, NY 10511-1099  
Contact: Mr. Richard J. Martucci  
Phone: 914-271-7118  
Fax: 914-734-5734  
E-Mail: martuccir@coned.com

#### Ionizing Radiation Dosimetry

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AT in an 874 AT holder for ANSI-N13.11 categories I, II, IIIB, IV, VC, VI, VII, VIII.

---

### NVLAP LAB CODE 100539-0

#### U.S. Army Radiation Standards & Dosimetry Laboratory

Attn: AMSAM-TMD-SR-D, Bldg. 5417  
Redstone Arsenal, AL 35898-5000  
Contact: Mr. Patrick Kuykendall  
Phone: 256-876-3340  
Fax: 256-955-6413  
E-Mail: pkuyken@redstone.army.mil

#### Ionizing Radiation Dosimetry

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Model 710 reader.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic Model UD802AS in a Panasonic UD-874A-T holder for ANSI-N13.11 categories I, II, IIIA, IV, VA, VB, VC, VI, VII, VIII.

---

### NVLAP LAB CODE 100540-0

#### Northeast Utilities Dosimetry Laboratory

3333 Berlin Turnpike  
Newington, CT 06111  
Contact: Mr. Charles R. Palmer  
Phone: 860-447-1791  
Fax: 860-444-5640  
E-Mail: PALMECR@GWSMTP.NU.COM

#### Ionizing Radiation Dosimetry

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw model 8800 TLD workstation.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Harshaw TLD card model 8801N (3 TLD 700, 1 TLD 600 chips) in a Harshaw Model 8810 holder for ANSI-N13.11 categories I, II, IIIB, IV, VB, VI, VII, and VIII.

---

### NVLAP LAB CODE 100541-0

#### ComEd - TLD Processing Lab - CTEAM Facility

555 South Joliet Road  
Bolingbrook, IL 60440  
Contact: Mr. Frank Rescek  
Phone: 630-663-3850  
Fax: 630-663-3855  
E-Mail: Frank.Rescek@USCM.com

#### Ionizing Radiation Dosimetry

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802AS in a UD874-T hanger for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.



NVLAP LAB CODE 100544-0

**Florida Power & Light Company**

700 Universe Blvd.  
P.O. Box 14000  
Juno Beach, FL 33408-0420  
Contact: Mr. Joseph Danek  
Phone: 561-694-4213  
Fax: 561-694-3706  
E-Mail: joe\_danek@email.fpl.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD716.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1993 through testing.

Panasonic TLD model UD802-AT or AS in a ISA 820 holder for ANSI-N13.11 categories I, II, IIIB, IV, VC, VI, VII, VIII.

NVLAP LAB CODE 100548-0

**US Air Force Center for Radiation Dosimetry**

2402 E. Drive  
Brooks AFB, TX 78235-5114  
Contact: Dr. David N. Erwin  
Phone: 210-536-2003  
Fax: 210-536-2025  
E-Mail: David.Erwin@Guardian.Brooks.AF.MIL  
URL: <http://www.brooks.af.mil/AL/OE/OEBD/oebd.htm>

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD716AGL.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802AT in model 820-C hanger for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

Panasonic TLD model UD802AT in ISA model 822 neutron hanger for ANSI-N13.11 categories IV, VIII.

NVLAP LAB CODE 100551-0

**Georgia Power Company/Enviro. Affairs, Enviro. Lab-Dosimetry**

5131 Maner Road  
Smyrna, GA 30080-7321  
Contact: Mr. Michael C. Nichols  
Phone: 404-799-2112  
Fax: 404-799-2141  
E-Mail: Michael.C.NICHOLS@GPC.COM

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing Panasonic automatic readers model UD-710A and UD-717.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 and ANSI HPS N13.32 through testing.

Panasonic TLD model UD802-AS in a Panasonic 854A or UD-874ATM1 (closed) hanger for ANSI HPS N13.11 categories II, IIIB, IV, VC, VI, VII, VIII.

Panasonic extremity TLD model UD-817 in an elastic ring holder for ANSI HPS N13.32-1995 (NIST Handbook 150-4, table 2) categories II, IV and VII.

NVLAP LAB CODE 100554-0

**PP&L, Inc.**

Two North Ninth Street  
Allentown, PA 18101-1179  
Contact: Mr. Stephen L. Ingram  
Phone: 610-774-5412  
Fax: 610-774-7205  
E-Mail: slingram@papl.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AS in a Panasonic UD874-AT1 or UD874-ATM1 hanger for ANSI-N13.11 categories I, II, IIIB, IV, VC, VI, VII, VIII.



**NVLAP LAB CODE 100555-0**

**ICN Dosimetry Service, Div. of ICN Biomedicals, Inc.**

3300 Hyland Ave., ICN Plaza  
Costa Mesa, CA 92626  
Contact: Ms. Sandra Nemecek  
Phone: 714-545-0100 x2297  
Fax: 714-668-3149  
E-Mail: smnemecek@icnpharm.com  
URL: <http://www.dosimetry.com>

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing the TLD automatic readers: Panasonic model UD710A, SLD STI model 8800, and Harshaw model 6600. In addition, the TLD manual readers: Panasonic model UD702 and Harshaw model 3500. The MacBeth TD932 densitometer, and a custom automatic developer and densitometer for film processing.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model ICN UD-802 with a model UD-854 or UD-874 hanger for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

ICN Film Badge (Kodak Type 4) for ANSI-N13.11 categories I, II, IIIA, IV, VA, VI, VII.

ICN Film Badge (Kodak Type 4 with CR39) for ANSI-N13.11 category VIII.

Panasonic TLD model UD-802 with CR39 in a model UD-874 hanger for ANSI-N13.11 category VIII.

ICN Remtrack (Harshaw) TLD model 100 enclosed in a laminated polyethylene material holder for ANSI N13.11 category II and IV.

HLD-100 for ANSI-N13.11 categories I, II, IIIA, IV, VA, VI, VII.

HLD-760 for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

HLD-760 plus CR39 for ANSI-N13.11 category VIII based on equivalence

This facility has been accredited to process the extremity dosimeters listed below by virtue of actual demonstration of compliance with ANSI-N13.32-1995 and NIST

Handbook 150-4, Page 14, Table 2 categories.

Panasonic extremity TLD UD-807 in flex ring holder, based on testing for categories IVA, VA, and VB.

HLD-100 (Wrist), based on technical equivalence, for categories I, II IIIA, IIIB, IV, VA, VI, VII.

HLD-760 (Wrist), based on technical equivalence, for categories I, II, IIIA, IIIB, IV, VA, VI, VII.

HLD-100 (Ring), based on testing, for categories I, II, IIIA, IV, VA, VB, and VD.

HLD-100 1C (Ring), based on technical equivalence, for categories I, II, IIIA, IV, VA, VB, VD.

**NVLAP LAB CODE 100556-0**

**Atomic Energy Industrial Laboratory of the Southwest, Inc.**

9261 Kirby Drive  
Houston, TX 77054-2514  
Contact: Mr. Steven H. Allen  
Phone: 713-790-9719  
Fax: 713-790-0542  
E-Mail: [shallen@wt.net](mailto:shallen@wt.net)  
URL: <http://www.aeil.com>

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing film processing using a computerized custom densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Film Badge B-4 (Kodak Type 2) for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII.

Film Badge N-5 (Kodak Type 2 and A) for ANSI-N13.11 category VIII.

NVLAP LAB CODE 100559-0

**Troxler Radiation Monitoring Svc. a div. of**

**Troxler Elect. Labs**

3008 Cornwallis Road  
P.O. Box 12057  
Research Triangle Park, NC 27709  
Contact: Mr. Stephen A. Browne  
Phone: 919-549-8661  
Fax: 919-549-0761  
E-Mail: troxrso@troxlerlabs.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802 with model UD854 hanger for ANSI-N13.11 category I, II, IIIA, IV, VC, VI, VII, VIIIA.

NVLAP LAB CODE 100560-0

**Electric Boat Corp/A General Dynamics Co.**

**Radiological Ctrl. Dept**

75 Eastern Point Road  
Groton, CT 06340-4909  
Contact: Mr. Robert D. Renza  
Phone: 860-433-3674  
Fax: 860-433-0946  
E-Mail: rrenza@ebmail.gdeb.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw manual reader model 4000.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

A Harshaw TLD model 4040, CaF2 Bulb Dosimeter for ANSI HPS N13.11 Category IV.

NVLAP LAB CODE 100561-0

**Newport News Shipbuilding Radiological Control Department**

4101 Washington Avenue  
Newport News, VA 23607-2770  
Contact: Mr. C. W. Amos  
Phone: 757-380-2369  
Fax: 757-380-3778

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw automatic reader model 8800.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Harshaw TLD model 2276-L, BG (2 TLD 700, 1 TLD 600) in a Type 80 Harshaw cardholder for ANSI HPS N13.11 category IV.

NVLAP LAB CODE 100562-0

**Radiation Laboratory, Taiwan Power Company**

P.O. Box 7  
Shihmen, Taipei 25302  
TAIWAN  
Contact: Mr. W. W. Yeh  
Phone: +886-2-2638-1397  
Fax: +886-2-2638-2446  
E-Mail: u706667@taipower.com.tw

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD802AS in a UD-874A holder for ANSI-N13.11 categories I, II, IIIA, IV, VA, VI, VII, VIII.

NVLAP LAB CODE 100563-0

**Combustion Engineering, Inc.**

2000 Day Hill Road, Dept. 9459-0202  
P.O. Box 500  
Windsor, CT 06095-0500  
Contact: Mr. Stephen M. Sorensen  
Phone: 860-285-5285  
Fax: 860-285-2540

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS-N13.11-1993 through testing.

Panasonic TLD model UD802-AS2 in a Panasonic UD874-AT holder for ANSI-N13.11 categories II, IV, VC, VII.

NVLAP LAB CODE 100565-0

**Naval Nuclear Propulsion Program Directorate, Washington, D.C.**

Puget Sound Naval Shipyard, Rad. Hlth  
Division, Code 105.5, 1400 Farragut Ave  
Bremerton, WA 98314-5000  
Contact: Mr. R. K. Alspach  
Phone: 360-476-3596  
Fax: 360-476-4383

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: March 31, 1999

The facility listed has been evaluated as a representative site and deemed competent to process the radiation dosimeter listed below through employing a Radiac Computer-Indicator Model No. CP-1112/PD TLD reader.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing:

CaF Bulb Dosimeter (DT-526/PD) for ANSI-N13.11 categories II, IV.

The accreditation is also extended to include processing performed by other facilities in the Naval Nuclear Propulsion Program which use identical equipment and procedures as listed above.

NVLAP LAB CODE 100567-0

**HPNW**

11535 S.W. 67th  
Tigard, OR 97223-8504  
Contact: Mr. Ross L. Mercer  
Phone: 503-620-6617  
Fax: 503-684-5548  
E-Mail: Ross@HPNW.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic automatic reader model UD716 and the Harshaw 4400C for extremity processing.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-HPS N13.11-1993 through testing.

Panasonic TLD model UD802-AT2 in a ISA 831U holder for ANSI-N13.11 categories I, II, IIIA, IV, VA, VI, VII and VIII.

This facility is accredited to process the Harshaw extremity TLD model 100 in a HPNW design ring holder for HPS ANSI-N13.32 (NIST Handbook 150-4, table 2) categories I, II, IIIA, IV, VC, VI, VII.

NVLAP LAB CODE 100570-0

**Clinton Power Station**

6 mi. East of Clinton, Route 54 East  
P.O. Box 678  
Clinton, IL 61727-0678  
Contact: Ms. Mary J. Lewis  
Phone: 217-935-8881 x3718  
Fax: 217-935-4934  
E-Mail: mary\_lewis@illinova.com

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Model UD716AGL automatic reader.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Panasonic TLD model UD-802-AT in a ISA model 820 holder for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

---

**NVLAP LAB CODE 100571-0****United States Dosimetry Technology, Inc.**

660-A George Washington Way  
Richland, WA 99352-4246  
Contact: Mr. M. K. Winegardner  
Phone: 509-946-8738  
Fax: 509-943-2710  
E-Mail: [mk\\_wine@compuserve.com](mailto:mk_wine@compuserve.com)  
URL: <http://www.usdt.com>

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a USDT TLD Card Reader and a USDT film densitometer.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

USDT TLD F (TLD-700 and 600) for ANSI-N13.11 categories I, II, IIIA, IV, VA, VI, VII, VIII.

USDT T-3 Kodak type 2 film for ANSI-13.11 categories I, II, IIIA, IV, VA, VI, VII.

---

**NVLAP LAB CODE 100573-0****Proxtrionics, Inc.**

5795-B Burke Centre Parkway  
P.O. Box 12150  
Burke, VA 22015  
Contact: Mr. W. Guy Davis  
Phone: 703-425-4811  
Fax: 703-503-2856  
E-Mail: [sales@Proxtrionics.com](mailto:sales@Proxtrionics.com)  
URL: <http://www.proxtrionics.com>

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: June 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing film processing using a Victoreen 07-440 densitometer and TLD processing using a Panasonic UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Film Badge (Kodak Type II) for ANSI N13.11 categories III & IV.

Panasonic TLD model UD802-AS2 in an ISA 831 hanger for ANSI N13.11 categories I, II, IIIA, IV, VC, VI, VII, VIII.

Panasonic TLD model UD802-AS2 in a Panasonic 854 hanger for ANSI N13.11 categories IIIA, IV.

---

**NVLAP LAB CODE 101004-0****Labcorp Analytics Laboratory**

8040 Villa Park Drive  
Richmond, VA 23228  
Contact: Mr. James A. Calpin  
Phone: 804-264-7100  
Fax: 804-264-8873

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101005-0****Severn Trent Laboratories (MA)**

149 Rangeway Road  
N. Billerica, MA 01862-2097  
Contact: Dr. Ernest T. Dobi  
Phone: 978-667-1400  
Fax: 978-667-7871

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101006-0****Advanced Industrial Hygiene Services, Inc.**

2131 S.W. 2 Ave.  
Miami, FL 33129-1411  
Contact: Mr. Bruce Marchette  
Phone: 305-854-7554  
Fax: 305-285-0677  
E-Mail: [AIHS1@AOL.COM](mailto:AIHS1@AOL.COM)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999



---

**NVLAP LAB CODE 101011-0****Hygeia Laboratories, Inc.**

600 West Cummings Park, Suite 1900  
Woburn, MA 01801-6350  
Contact: Ms. Diane E. Capen  
Phone: 781-933-5074  
Fax: 781-938-1487  
E-Mail: Pichette64@atc-enviro.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101012-0****Dixon Information Inc.**

78 West 2400 South  
South Salt Lake, UT 84115-3013  
Contact: Mr. Willard C. Dixon  
Phone: 801-486-0800  
Fax: 801-486-0849

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101014-0****Aires Consulting Group, Inc.**

1550 Hubbard  
Batavia, IL 60510  
Contact: Ms. Cynthia Darling  
Phone: 630-879-3006  
Fax: 630-879-3014  
E-Mail: cindyardarling@airesconsulting.com  
URL: airesconsulting.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101019-0****EA Group**

7118 Industrial Park Blvd.  
Mentor, OH 44060-5314  
Contact: Mr. James D. Hale  
Phone: 440-951-3514  
Fax: 440-951-3774

URL: <http://www.eagroup-ohio.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101031-0****Fiberquant, Inc.**

5025 S. 33rd St.  
Phoenix, AZ 85040  
Contact: Mr. Larry S. Pierce  
Phone: 602-276-6139  
Fax: 602-276-4558  
E-Mail: FIBERQUANT@ABILNET.COM  
URL: <http://www.fiberq.com/labs/fq.htm>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101032-0****Batta Laboratories, Inc.**

Delaware Industrial Park  
6 Garfield Way  
Newark, DE 19713-5817  
Contact: Mr. Naresh C. Batta  
Phone: 302-737-3376  
Fax: 302-737-5764  
E-Mail: battaenv@battaenv.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101035-0**

---

**Microbac Laboratories, Inc.**

Erie Testing Division  
1962 Wager Road  
Erie, PA 16509  
Contact: Mr. Michael McElhinny  
Phone: 814-825-8533  
Fax: 814-825-9254

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101037-0**

---

**Microscopic Analysis, Inc.**

11760 Westline Industrial Drive  
St. Louis, MO 63146-3402  
Contact: Mr. Douglas N. Nimmo  
Phone: 314-993-2212  
Fax: 314-993-3193

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101039-0**

---

**Carnow, Conibear & Associates Ltd.**

333 W. Wacker Drive, Suite 1400  
Chicago, IL 60606-1226  
Contact: Mr. Aleksey Torosin  
Phone: 312-782-4486  
Fax: 312-782-5145

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101045-0**

---

**Hub Testing Laboratory, Inc.**

95 Beaver Street  
Waltham, MA 02453-8423  
Contact: Mr. Frederick T. Boyle  
Phone: 800-878-8938  
Fax: 781-893-4414  
E-Mail: ftboyle@ultranet.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 101048-0**

---

**EMSL Analytical, Inc.**

108 Haddon Avenue  
Westmont, NJ 08108-2799  
Contact: Mr. Robert G. Shumate, Jr.  
Phone: 609-858-4800  
Fax: 609-858-4960

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101048-1**

---

**EMSL Analytical, Inc.**

1770 The Exchange SE, Suite 135  
Atlanta, GA 30339  
Contact: Rachel Travis  
Phone: 770-956-9150  
Fax: 770-956-9181

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101048-2**

---

**EMSL Analytical, Inc.**

1056 Stelton Rd.  
Piscataway, NJ 08854  
Contact: Adrian Arav  
Phone: 908-981-0550  
Fax: 908-981-0551

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101048-3**

---

**EMSL Analytical, Inc.**

1720 South Amphlett Blvd., Suite 130  
San Mateo, CA 94402  
Contact: Emmanuel Dounias  
Phone: 650-570-5401  
Fax: 650-570-5402

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101048-4**

---

**EMSL Analytical, Inc.**

212 S. Wagner Road  
Ann Arbor, MI 48103  
Contact: Hildegard Hohnke  
Phone: 734-668-6810  
Fax: 734-668-8532

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101048-9**

---

**EMSL Analytical, Inc.**

350 Fifth Avenue, 15th Floor, Suite 1524  
New York, NY 10118  
Contact: Jose Arriaga  
Phone: 212-290-0051  
Fax: 212-290-0058

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101048-10**

---

**EMSL Analytical, Inc.**

208 Stone Henge Road  
Carle Place, NY 11514  
Contact: Brian Riedener  
Phone: 516-997-7251  
Fax: 516-997-7528

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101051-0**

---

**Accredited Environmental Technologies, Inc.**

28 North Pennell Road  
Media, PA 19063  
Contact: Mr. Carl Josephson  
Phone: 610-891-0114  
Fax: 610-891-0559

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101058-0****Waste Management Federal Services of Hanford, Inc.**

Waste Sampling & Characterization Fac.  
P.O. Box 700 MSIN: S3-30  
Richland, WA 99352  
Contact: Ms. Maureen K. Hamilton  
Phone: 509-373-7167  
Fax: 509-373-7133  
E-Mail: maureen.k.hamilton@rl.gov

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101060-0****DLZ Laboratories, Inc.**

6121 Huntley Road  
Columbus, OH 43229-1003  
Contact: Mr. Michael R. Pannell  
Phone: 614-848-4333  
Fax: 614-841-0818  
E-Mail: dlzlabs@iwaynet.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101061-0****ChemScope, Inc.**

15 Moulthrop Street  
North Haven, CT 06473-3686  
Contact: Mr. Ronald D. Arena  
Phone: 203-865-5605  
Fax: 203-498-1610

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101062-0****A T Labs**

250 DeBartolo Pl., Suite 2525  
Youngstown, OH 44512  
Contact: Mr. Edward B. Engel  
Phone: 800-365-3396  
Fax: 330-758-1245  
E-Mail: edengel@ix.netcom.com  
URL: <http://assaytec.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101064-0****ECS/Wagner Environmental**

371 West 5th Avenue  
Eugene, OR 97401  
Contact: Mr. Ms Les Lyons  
Phone: 541-343-0300  
Fax: 541-343-0375

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101066-0****Law Engineering and Environmental Services, Inc.**

2100 Riverchase Center, Suite 450  
Birmingham, AL 35244  
Contact: Mr. James C. Findlay  
Phone: 205-733-7672  
Fax: 205-985-2951

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101070-0****PSI, Inc.**

25 Dubon Court  
Farmingdale, NY 11735  
Contact: Dr. Antonio Lanzirotti  
Phone: 516-752-1226  
Fax: 516-752-1508  
E-Mail: ALANZIR@IDT.NET

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101072-0****Bodycote Industrial Testing, Inc.**

2350 South 7th Street  
St. Louis, MO 63104-4296  
Contact: Mr. William J. Lowry  
Phone: 314-771-7111  
Fax: 314-771-9573

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code      Designation*

*Chemical Analysis*



*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FA/547 ASTM E350

*Energy dispersive X-ray analysis*

FA/500 ASTM E1508

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

*Solution chemical analysis*

FA/448 ASTM E350

*Mechanical and Physical Testing and Inspection*

*Adhesion of metallic coatings on fasteners*

FA/143 ASTM B571

FA/541 QQ-P-416 Sec. 4.6.2

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

*Bend test of full size eyebolts*

FA/147 ASTM F541

*Breaking strength of fullsize eyebolts*

FA/275 ASTM A489

*Brinell hardness of fasteners*

FA/185 ASTM A370 Sec. 16

*Charpy impact (u-notch) testing*

FA/517 ASTM E23

*Charpy impact (v-notch) testing*

FA/211 ASTM A370 Sec. 19-28

FA/212 ASTM E23

*Copper sulfate test - test for free iron on the surface of corrosion resistant fasteners*

FA/545 ASTM A262 Sec. 22-31

*Double shear of externally threaded fasteners*

FA/257 MIL-STD-1312-13

*Elevated temperature testing capability*

FA/546 ASTM E21

*Humidity testing of fasteners*

FA/548 ASTM D2247

*Hydrogen embrittlement (stress durability) of externally threaded fasteners*

FA/549 Chrysler PS-9500

*Intergranular corrosion susceptibility in austenitic stainless steel fasteners - nitric aci*

FA/173 ASTM A262 Sec. 15-21, Practice C

*Intergranular corrosion susceptibility of austenitic stainless steel fasteners - oxalic acid*

FA/174 ASTM A262 Sec. 3-7, Practice A

*Magnetic permeability*

FA/215 MIL-I-17214

*Measurement of fastener coating thickness - magnetic methods*

FA/153 ASTM B499

*Measurement of fastener coating thickness - microscopical method*

FA/160 ASTM B487

*Measurement of fastener coating thickness - weight of coating*

FA/164 ASTM A90

*Microhardness of fasteners*

FA/189 ASTM E384

*Prevailing torque*

FA/216 ANSI B18.16.1M

FA/217 IFI-100/107

*Proof load of full-size externally threaded fasteners*

FA/225 ASTM A370 Sec. A3.2.1.1-A3.2.1.3

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

*Proof load of full-size eyebolts*

FA/231 ASTM A489

*Proof load of internally threaded fasteners (nuts)*

FA/237 ASTM F606M Sec. 4.2

*Reusability test of self-locking internally threaded fasteners*

FA/542 ANSI B18.16.1M

FA/543 IFI-100/107

*Rockwell hardness of fasteners*

FA/196 ASTM A370 Sec. 18

*Rockwell superficial hardness of fasteners*

FA/206 ASTM A370 Sec. 18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Single shear of externally threaded fasteners*

FA/256 MIL-STD-1312-20

*Tension testing of machined specimens from externally threaded fasteners*

FA/279 ASTM F606 Sec. 3.6

*Torque-out test*

FA/544 IFI-101

*Total extension at fracture of externally threaded fasteners*

FA/285 ASTM F606 Sec. 3.7

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/507 ASTM E384

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/328 SAE J121

FA/330 SAE J423

*Determination of grain size of fasteners*

FA/331 ASTM E112

*Macroscopic examination of fasteners by etching*

FA/484 ASTM E381

*Microscopic examination of fasteners by etching*

FA/512 ASTM E407

*Surface discontinuities of externally threaded fasteners*

FA/361 SAE J123

*Surface discontinuities of internally threaded fasteners*

FA/365 SAE J122

*Nondestructive Inspection*

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

**Liquid penetrant inspection of fasteners**

FA/372 SAE J426

**Magnetic particle inspection of fasteners**FA/378 SAE J420

---

**NVLAP LAB CODE 101079-0****Wausau Insurance Companies**

Environmental Health Laboratory  
P.O. Box 8017, 2000 Westwood Drive  
Wausau, WI 54402-8017  
Contact: Dr. Thomas Stavros  
Phone: 715-842-6810  
Fax: 715-847-8391  
E-Mail: tstavros@wausau.com

**Bulk Asbestos Analysis (PLM)**Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101086-0****Analytica Solutions, Inc.**

325 Interlocken Parkway, Suite 200  
Broomfield, CO 80021  
Contact: Mr. Tim Osbourn  
Phone: 303-469-8868  
Fax: 303-469-5254  
E-Mail: Marketing@Analyticagroup.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

**Airborne Asbestos Analysis (TEM)**Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101087-0****Environmental Monitoring & Consulting Associates**

P.O. Box 872  
Somerville, NJ 08876  
Contact: Mr. Joel Russell  
Phone: 732-249-3005  
Fax: 732-249-3384

**Bulk Asbestos Analysis (PLM)**Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 101088-0****EEC, Inc.**

107 Wind Chime Court  
Raleigh, NC 27615  
Contact: Mr. Mike Shrimanker  
Phone: 919-846-1016  
Fax: 919-846-1813

**Bulk Asbestos Analysis (PLM)**Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101091-0****Maxim Technologies, Inc.**

2342 Fabens  
P.O. Box 59902  
Dallas, TX 75229-3399  
Contact: Ms. Joyce Eckles  
Phone: 214-631-2700  
Fax: 214-920-1891

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101091-1****Maxim Technologies, Inc.**

222 Cavalcade Street  
P.O. Box 8768  
Houston, TX 77249-8768  
Contact: Heidi Foltz  
Phone: 713-692-9151  
Fax: 713-696-6307

**Bulk Asbestos Analysis (PLM)**Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101103-0****Chatfield Technical Consulting Limited**

2071 Dickson Road  
Mississauga Ontario L5B 1Y8  
CANADA  
Contact: Dr. Eric J. Chatfield  
Phone: 905-896-7611  
Fax: 905-896-1930  
E-Mail: chatfiel@echo-on.net

**Bulk Asbestos Analysis (PLM)**Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101106-0****Clayton Environmental Consultants**

a division of Clayton Group Srvs., Inc.  
4636 East Marginal Way South, Suite 215  
Seattle, WA 98134-2331  
Contact: Ms. Patricia Lukens  
Phone: 206-763-7364  
Fax: 206-763-4189

**Bulk Asbestos Analysis (PLM)**Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101109-0****Wisconsin Occupational Health Laboratory**

2601 Agriculture Drive  
P.O. Box 7996  
Madison, WI 53707-7996  
Contact: Mr. Lyle Reichmann  
Phone: 608-224-6221  
Fax: 608-224-6213  
E-Mail: LR@WOHL.SLH.WISC.EDU

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101111-0****City of Los Angeles Department of Water and Power**

Department of Water and Power  
PO Box 51111, 1630 N. Main St., Bldg. 7  
Los Angeles, CA 90051-0100  
Contact: Mr. Timothy B. Hemming  
Phone: 213-367-7271  
Fax: 213-367-7285

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101125-0****Clayton Laboratory Services**

400 Chastain Center Blvd., NW  
Suite 490  
Kennesaw, GA 30144-5558  
Contact: Mr. Alan M. Segrave  
Phone: 770-499-7500  
Fax: 770-423-4990  
E-Mail: ASEG007@AOL.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101130-0****TEM, Incorporated**

443 Duane Street  
Glen Ellyn, IL 60137  
Contact: Mr. James Tuinenga  
Phone: 630-790-0880  
Fax: 630-790-0882

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101135-0****McKee Environmental Health, Inc.**

303 Westfield Lane  
Friendswood, TX 77546-6316  
Contact: Mr. Ronald S. McKee  
Phone: 281-482-3403  
Fax: 281-482-7203

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101136-0****American Medical Laboratories, Inc.**

14225 Newbrook Drive  
P.O. Box 10841  
Chantilly, VA 20153-0841  
Contact: Ms. Jan Turner  
Phone: 703-802-6900  
Fax: 703-802-7041

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101143-0****AMA Analytical Services, Inc.**

4475 Forbes Blvd.  
Lanham, MD 20706  
Contact: Mr. Andreas Saldivar  
Phone: 301-459-2640  
Fax: 301-459-2643  
E-Mail: AMALAB@EROLS.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101147-0****Hygienetics Laboratory Services**

98 North Washington Street  
Boston, MA 02114  
Contact: Mr. Bryan Clark  
Phone: 617-589-0660  
Fax: 617-742-4285  
E-Mail: lab@hygienetics.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101150-0

**Schneider Laboratories, Inc.**

2512 W. Cary Street  
Richmond, VA 23220-5117  
Contact: Mr. Raja F. Abouzaki  
Phone: 804-353-6778  
Fax: 804-353-6928  
E-Mail: s\_lab@ix.netcom.com  
URL: <http://www.slabinc.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101151-0

**Micro Analytical Laboratories, Inc.**

3618 N.W. 97th Blvd.  
Gainesville, FL 32606  
Contact: Mr. Robert A. Longo  
Phone: 352-332-1701  
Fax: 352-332-3572  
E-Mail: MALINC@MSN.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101152-0

**Law Engineering and Environmental Services, Inc.**

5500 Guhn Road  
Houston, TX 77040-6126  
Contact: Mr. Tony T. Dang  
Phone: 713-939-7161  
Fax: 713-462-7903  
E-Mail: tdang@lawco.com  
URL: <http://www.lawco.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101155-0

**NATEC International, Inc.**

7441 Anaconda Avenue  
Garden Grove, CA 92841-2911  
Contact: Mr. Vanc Thomas  
Phone: 714-894-7577  
Fax: 714-373-1768

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 101162-0

**EcoSystems Environmental, Inc.**

1408A Vantage Street  
Carrollton, TX 75006  
Contact: Mr. Bakhtiar Dargali  
Phone: 972-416-0520  
Fax: 972-416-4512

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101165-0

**International Asbestos Testing Laboratory**

16000 Horizon Way, Unit 100  
Mt. Laurel, NJ 08054  
Contact: Mr. Frank E. Ehrenfeld, III  
Phone: 609-231-9449  
Fax: 609-231-9818

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101168-0

**AAC Trinity, Inc.**

38855 Hills Tech Drive, Suite 550  
Farmington Hills, MI 48331  
Contact: Mr. Charles A. O'Bryan  
Phone: 248-848-9656  
Fax: 248-848-9657  
E-Mail: sales@aactrinity.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101170-0

**Gelles Laboratories, Inc.**

2836 Fisher Road  
Columbus, OH 43204-3538  
Contact: Dr. Stanley H. Gelles  
Phone: 614-276-2957  
Fax: 614-276-3441  
E-Mail: [info@gellab.com](mailto:info@gellab.com) or [sgelles@compuserve.com](mailto:sgelles@compuserve.com)  
URL: <http://www.gellab.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999



NVLAP LAB CODE 101185-0

**SEAS, Inc.**

3089 Pandapas Pond Road  
P.O. Box 660  
Blacksburg, VA 24063-0660  
Contact: Mr. David L. Violette  
Phone: 540-951-9283  
Fax: 540-951-9282  
E-Mail: seas@swva.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101187-0

**ATC Associates, Inc.**

104 E. 25th Street 10th Floor  
New York, NY 10010  
Contact: Ms. Milena Lowd  
Phone: 212-353-8280  
Fax: 212-353-3599  
E-Mail: Lowd15@ATC-ENVIRO.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101188-0

**Tremco, Inc. - Roofing Division, An RPM Company**

3735 Green Road  
Beachwood, OH 44122  
Contact: Mr. Greg Rudolph  
Phone: 216-766-5644  
Fax: 216-765-6737

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101190-0

**Pacific Environmental Services, Inc.**

560 Herndon Parkway, Suite 200  
Herndon, VA 20170-5240  
Contact: Ms. Pamela S. Reuille  
Phone: 703-471-8383  
Fax: 703-481-8296  
E-Mail: preuille@hrn.pes.com  
URL: http://www.pes.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101192-0

**Philip Environmental Services Corp.**

210 West Sandbank Road  
P.O. Box 230  
Columbia, IL 62236-0230  
Contact: Mr. Craig M. Brooks  
Phone: 618-281-7173  
Fax: 618-281-5120  
E-Mail: craig\_brooks@philipinc.com  
URL: http://www.philipinc.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101199-0

**HYGENIX, INC.**

40 Hoyt Street  
Stamford, CT 06905-5616  
Contact: Mr. Arthur Morris  
Phone: 203-324-2222  
Fax: 203-324-9857

URL: http://www.hygenix.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 101202-0

**STAT Analysis Corporation**

2201 W. Campbell Park Dr.  
Chicago, IL 60612-3501  
Contact: Dr. Surendra N. Kumar  
Phone: 312-733-0551  
Fax: 312-733-2386

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101208-0

**RJ Lee Group, Inc.**

350 Hochberg Road  
Monroeville, PA 15146-1516  
Contact: Mr. Drew R. Van Orden  
Phone: 724-325-1776  
Fax: 724-733-1799  
E-Mail: DREW@RJLG.COM  
URL: http://www.RJLG.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101208-2

**RJ Lee Group, Inc.**

Bay Area Laboratory  
530 McCormick Place  
San Leandro, CA 94577  
Contact: Kyle M. Bishop  
Phone: 510-567-0480  
Fax: 510-567-0488  
E-Mail: KBISHOP@RJLG.COM  
URL: <http://www.RJLG.COM>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101208-3

**RJ Lee Group, Inc.**

Manassas Laboratory  
10503 Battleview Parkway  
Manassas, VA 20109  
Contact: Monica McCloy  
Phone: 703-368-7880  
Fax: 703-368-7761

URL: <http://www.RJLG.COM>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101208-5

**RJ Lee Group, Inc.**

Houston Laboratory  
14760 Memorial Drive, Suite 106  
Houston, TX 77079  
Contact: Tony Rease  
Phone: 281-584-0584  
Fax: 281-584-0588  
E-Mail: RJLG01@aol.com  
URL: <http://www.RJLG.COM>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101216-0

**CTL Environmental Services**

24404 S. Vermont Avenue, Suite 307  
Harbor City, CA 90710  
Contact: Mr. Rich Brockbank  
Phone: 310-530-5006  
Fax: 310-530-0792  
E-Mail: rbrockbank@ctles.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101218-0

**EMS Laboratories, Inc.**

117 West Bellevue Drive  
Pasadena, CA 91105-2503  
Contact: Ms. Bernadine M. Kolk  
Phone: 626-568-4065  
Fax: 626-796-5282  
E-Mail: emslab2@aol.com  
URL: <http://www.emslabs.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101221-0

**Micro Air, Inc.**

6320 La Pas Trail  
Indianapolis, IN 46268-4104  
Contact: Dr. Morris L.V. French  
Phone: 317-293-1533  
Fax: 317-290-3566  
E-Mail: microair@microair.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101222-0

**Enviro-Probe, Inc.**

2917 Bruckner Boulevard  
Bronx, NY 10461  
Contact: Dr. Ved P. Kukreja  
Phone: 718-863-0045  
Fax: 718-518-7454

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 101226-0****Law Engineering and Environmental Services, Inc.**

2801 Yorkmont Road  
P.O. Box 11297  
Charlotte, NC 28220  
Contact: Mr. Jack Coan  
Phone: 704-357-8600  
Fax: 704-357-8639

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101228-0****The Scott Lawson Group, Ltd.**

29 River Road  
P.O. Box 3304  
Concord, NH 03302-0894  
Contact: Ms. Jennifer Scott  
Phone: 603-228-3610  
Fax: 603-228-3871

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101232-0****ERI Consulting Engineers, Inc.**

2024 Republic Drive  
P.O. Box 2024  
Tyler, TX 75701-2024  
Contact: Ms. Kathy R. Schosek  
Phone: 903-534-5001  
Fax: 903-534-8701

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101233-0****HIH Laboratory, Inc.**

100 East NASA Road One, Suite 210  
P.O. Box 57727  
Webster, TX 77598  
Contact: Mr. Jerry W. Bright  
Phone: 281-338-9000  
Fax: 281-338-2351

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101234-0****Braun Intertec Corporation**

6875 Washington Avenue South  
P.O. Box 39108  
Minneapolis, MN 55439-0108  
Contact: Ms. Beth Regan  
Phone: 612-942-4828  
Fax: 612-942-4844  
E-Mail: bregan@brauncorp.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101235-0****Materials Analytical Services, Inc.**

3945 Lakefield Court  
Suwanee, GA 30024  
Contact: Dr. William E. Longo  
Phone: 770-448-3200  
Fax: 770-368-8256  
E-Mail: blongo@mastest.com  
URL: <http://www.mastest.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101237-0****State of Connecticut**

Dept. of Public Health Laboratory  
P.O. Box 1689  
Hartford, CT 06144-1689  
Contact: Ms. Janet B. Kapish  
Phone: 860-509-8538  
Fax: 860-509-8698

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101247-0****Micro Analytical, Inc.**

11521 W. North Ave.  
Milwaukee, WI 53226  
Contact: Mr. Jon Yakish  
Phone: 414-771-0855  
Fax: 414-771-6570

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101249-0****Institute for Environmental Assessment**

7101 Northland Circle  
Brooklyn Park, MN 55428-1517  
Contact: Ms. Yolanda Pope  
Phone: 612-535-7721  
Fax: 612-535-9177

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101254-0****Roy F. Weston, Inc.**

1635 Pumphrey Avenue  
Auburn, AL 36832-4303  
Contact: Mr. Jamieson D. Webb  
Phone: 334-826-6100  
Fax: 334-826-8232

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101258-0****DCM Science Laboratory, Inc.**

12421 W. 49th Ave., Unit 6  
Wheat Ridge, CO 80033  
Contact: Ms. Cindy Mefford  
Phone: 303-463-8270  
Fax: 303-463-8267  
E-Mail: dcmscilab@aol.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101261-0****Asbestos Analysis and Information Service, Inc.**

603 North Baker Street  
P.O. Box 837  
Four Oaks, NC 27524  
Contact: Mr. Stephen H. Westbrook  
Phone: 919-963-2898  
Fax: 919-963-2841  
E-Mail: STEHWEST@AOL.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101262-0****Philip Analytical Services**

4418 Pottsville Pike  
Reading, PA 19605  
Contact: Mr. Fred Usbeck  
Phone: 610-921-8833  
Fax: 610-921-9667  
E-Mail: FRED\_USBECK@PHILIP-SERV.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101265-0****Pace Analytical**

5156 E. 65th Street  
Indianapolis, IN 46220-4871  
Contact: Mr. Scott Patrick Lindsay  
Phone: 317-845-7730 x1847  
Fax: 317-845-0630

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101269-0****Volz Environmental Services, Inc.**

1200 Gulf Lab Road  
Pittsburgh, PA 15238-1304  
Contact: Mr. George J. Skarupa  
Phone: 412-826-8480  
Fax: 412-826-8488

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101270-0****Pinchin Environmental Ltd.**

5749 Coopers Ave.  
Mississauga Ontario L4Z 1R9  
CANADA  
Contact: Ms. Wendy Bunner  
Phone: 905-507-4850  
Fax: 905-507-4884  
E-Mail: kslayer@pinchin.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999



NVLAP LAB CODE 101277-0

**EMSL Analytical, Inc.**

Prosperity Plaza  
3020 Hamaker Court, Suite B-110  
Fairfax, VA 22301  
Contact: Mr. Ronald Mahoney  
Phone: 703-208-3200  
Fax: 703-208-1822  
E-Mail: mwatson@mantech.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101282-0

**Mystic Air Quality Consultants, Inc.**

1204 North Road  
Groton, CT 06340  
Contact: Mr. Christopher J. Eident  
Phone: 203-449-8903  
Fax: 203-449-8860  
E-Mail: MAQC2@AOL.COM  
URL: <http://www.mysticair.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101288-0

**University (State) Hygienic Laboratory**

University of Iowa  
102 Oakdale Campus, #H101 OH  
Iowa City, IA 52242-5002  
Contact: Dr. George Breuer  
Phone: 319-335-4500  
Fax: 319-335-4555  
E-Mail: gbreuer@uhl.uiowa.edu  
URL: <http://www.uhl.uiowa.edu>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101292-0

**Maxim Technologies, Inc.**

600 South 25th Street  
P.O. Box 30615  
Billings, MT 59107  
Contact: Ms. Kathleen A. Smit  
Phone: 406-248-9161  
Fax: 406-248-9282  
E-Mail: maximT@wtp.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101295-0

**ERT Testing Services**

211 Glendale, Suite 425  
Highland Park, MI 48203  
Contact: Ms. Rose Grier  
Phone: 313-865-0600  
Fax: 313-865-8951

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101301-0

**PMK Group, Inc.**

629 Springfield Road  
Kenilworth, NJ 07033  
Contact: Mr. James Ferris  
Phone: 908-686-0044  
Fax: 908-686-0715  
E-Mail: jimf@mars.superlink.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101306-0

**Environmental Services International, Inc.**

6404 MacCorkle Avenue, SW, Suite #2  
St. Albans, WV 25177  
Contact: Mr. Scott Rodeheaver  
Phone: 304-768-2233  
Fax: 304-768-9988  
E-Mail: esilab@citynet.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101323-0

**PA DEP Bureau of Laboratories**

P.O. Box 1467  
Harrisburg, PA 17105-1467  
Contact: Mr. Floyd D. Kefford  
Phone: 717-787-4669  
Fax: 717-783-1502  
E-Mail: Kefford.Floyd@al.DEP.state.PA.US

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101331-0

**Kellco Services, Inc.**

3137 Diablo Ave.  
Hayward, CA 94545  
Contact: Dr. Xiaomin (Simon) Wang  
Phone: 510-786-9751  
Fax: 510-786-9625  
E-Mail: xwang@kellco.com  
URL: <http://www.kellco.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101332-0

**New York Testing Laboratories, Inc.**

100 Sweeneydale Avenue  
Bay Shore, NY 11706  
Contact: Mr. David Chen  
Phone: 516-491-3800  
Fax: 516-952-7441

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101342-0

**PSI**

4820 West 15th Street  
Lawrence, KS 66049-3846  
Contact: Mr. Wayne Dickerson  
Phone: 785-865-9345  
Fax: 785-865-9337  
E-Mail: wdickers@idir.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101343-0

**O'Brien & Gere Laboratories, Inc.**

5000 Brittonfield Parkway  
P.O. Box 4942  
Syracuse, NY 13221  
Contact: Mr. Michael J. Gerber  
Phone: 315-437-0200  
Fax: 315-463-7554

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101350-0

**PSI**

850 Poplar Street  
Pittsburgh, PA 15220  
Contact: Mr. Daniel Anderson  
Phone: 412-922-4010 x260  
Fax: 412-922-4014

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101356-0

**Beling Consultants, Inc.**

1001 16th Street  
Moline, IL 61265  
Contact: Mr. Jeffrey A. Wasson  
Phone: 309-757-9814  
Fax: 309-757-9812  
E-Mail: jwasson@beling.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101375-0

**Galson Laboratories**

6601 Kirkville Road  
P.O. Box 369  
East Syracuse, NY 13057  
Contact: Ms. Eva Galson  
Phone: 315-432-5227  
Fax: 315-437-0571

URL: <http://www.galsonlabs.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101383-0

**Lockheed Martin Utility Services, Inc.**

Portsmouth Uranium Enrichment Plant  
P.O. Box 628, 3930 US Route 23  
Piketon, OH 45661  
Contact: Ms. D. K. Perez  
Phone: 740-897-5702  
Fax: 740-897-3130

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101384-0****Health Science Associates**

10771 Noel Street  
Los Alamitos, CA 90720-2547  
Contact: Ms. Jaime Steedman-Lyde  
Phone: 714-220-3922  
Fax: 714-220-2081  
E-Mail: srosenberg@earthlink.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101399-0****Guardian Laboratories**

6309 Fern Valley Pass  
Louisville, KY 40228-1059  
Contact: Dr. Dan C. Visanescu  
Phone: 502-964-0865  
Fax: 502-964-7681

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101410-0****Davis & Floyd, Inc.**

816 East Durst Street  
P.O. Drawer 428  
Greenwood, SC 29649  
Contact: Mr. E. Carl Burrell, Jr.  
Phone: 864-229-4413  
Fax: 864-229-7119  
E-Mail: cburrell@davisfloyd.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101415-0****Larron Laboratory**

529 Broadway  
Cape Girardeau, MO 63701  
Contact: Mr. Ronald E. Farrow  
Phone: 573-334-8910  
Fax: 573-334-8910

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

---

**NVLAP LAB CODE 101421-0****Hillmann Environmental Company**

1600 Route 22 East  
Union, NJ 07083-1597  
Contact: Ms. Marianne Hillmann  
Phone: 908-688-7800  
Fax: 908-686-2636  
E-Mail: hecopa@penn.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

---

**NVLAP LAB CODE 101424-0****TRC Environmental Corporation**

5 Waterside Crossing  
Windsor, CT 06095  
Contact: Mr. Lance R. Cotton  
Phone: 860-298-6326  
Fax: 860-298-6399

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101425-0****Marine Chemist Service, Inc.**

11850 Tug Boat Lane  
Newport News, VA 23606  
Contact: Ms. Colleen Becker  
Phone: 757-873-0933  
Fax: 757-873-1074  
E-Mail: mchemserv@compuserve.com  
URL: <http://www.marinechemist.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101433-0****Dames & Moore, Inc.**

5 Industrial Way  
Salem, NH 03079  
Contact: Mr. Douglas R. Lawson  
Phone: 603-893-0616  
Fax: 603-893-6240

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101440-0****RI Analytical Laboratories, Inc.**

41 Illinois Avenue  
Warwick, RI 02888-3007  
Contact: Mr. Eric Neff  
Phone: 401-737-8500  
Fax: 401-738-1970

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101442-0****ASBESTECH**

6825 Fair Oaks Blvd., Suite 103  
Carmichael, CA 95608  
Contact: Mr. Tommy Conlon  
Phone: 916-481-8902  
Fax: 916-481-3975

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101457-0****Assaigai Analytical Laboratories, Inc.**

7300 Jefferson NE  
P.O. Box 90430  
Albuquerque, NM 87199-0430  
Contact: Mr. William P. Biava  
Phone: 505-822-8061  
Fax: 505-822-8063  
E-Mail: bjbiava@swcp.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101459-0****Forensic Analytical Specialties, Inc.**

3777 Depot Road, Suite 409  
Hayward, CA 94545-2756  
Contact: Mr. David Sandusky  
Phone: 510-887-8828  
Fax: 510-887-4218  
E-Mail: Daves@forensica.com  
URL: <http://www.forensica.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101459-1****Forensic Analytical Specialties, Inc.**

2959 Pacific Commerce Drive  
Rancho Domingues, CA 90221  
Contact: Matilde Antillon  
Phone: 310-763-2374  
Fax: 310-763-8684

URL: <http://www.forensica.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101463-0****Northern Testing Laboratories, Inc.**

3330 Industrial Avenue  
Fairbanks, AK 99701-7395  
Contact: Ms. Cindy L. Christian  
Phone: 907-456-3116  
Fax: 907-456-3125  
E-Mail: clcntl@polarnet.com  
URL: <http://www2.polarnet.com/~ntl>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101505-0****Los Angeles Unified School District**

BSC Annex, Env. Health & Safety Branch  
1449 So. San Pedro Street  
Los Angeles, CA 90015  
Contact: Mr. Brett Koontz  
Phone: 213-743-5086  
Fax: 213-749-8010  
E-Mail: dbryant@lausd.k12.ca.us

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

---

**NVLAP LAB CODE 101506-0****Environmental Health Laboratories**

St. Louis County Department of Health  
111 So. Meramec  
Clayton, MO 63105-1711  
Contact: Dr. Robert A. Nicolotti  
Phone: 314-854-6830  
Fax: 314-854-6648  
E-Mail: robert\_nicolotti@co.st-louis.mo.us

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---



---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101510-0**

---

**Fibertec, Inc.**

2280 Aurelius Road  
Holt, MI 48842-2165  
Contact: Mr. Phillip A. Peterson  
Phone: 517-699-0345  
Fax: 517-699-0388  
E-Mail: [asbestos@fibertec-USA.com](mailto:asbestos@fibertec-USA.com)  
URL: <http://www.asbestos@fibertec-usa.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

---

**NVLAP LAB CODE 101514-0**

---

**EnviroMed Services, Inc.**

25 Science Park  
New Haven, CT 06511  
Contact: Mr. Joseph Pasquariello  
Phone: 203-786-5580  
Fax: 203-786-5579

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101515-0**

---

**Law Engineering and Environmental Services, Inc.**

4919 West Laurel Street  
Tampa, FL 33607  
Contact: Mr. Monte Hall  
Phone: 813-289-0750  
Fax: 813-289-5474  
E-Mail: [mhall@lawco.com](mailto:mhall@lawco.com)  
URL: <http://www.law-USA.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101515-1**

---

**Law Engineering and Environmental Services, Inc.**

5845 N.W. 158th Street  
Miami Lakes, FL 33014  
Contact: Chris DuBour  
Phone: 305-826-5588  
Fax: 305-826-1799

URL: <http://www.law-USA.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101523-0**

---

**DHMH-Air Quality Laboratory**

201 West Preston Street  
P.O. Box 2355  
Baltimore, MD 21201-2355  
Contact: Ms. Yvonne Tai-Sen-Choy  
Phone: 410-767-5948  
Fax: 410-333-5403

URL: <http://www.charm.net/~epi6/labs.htm>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101530-0**

---

**Department of Environmental Health Industrial Hygiene Laboratory**

9325 Hazard Way  
San Diego, CA 92123-1217  
Contact: Mr. Larry Marshall  
Phone: 619-694-2232  
Fax: 619-694-3434  
E-Mail: [LMARSHEH@CO.SAN-DIEGO.CA.US](mailto:LMARSHEH@CO.SAN-DIEGO.CA.US)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

---

**NVLAP LAB CODE 101539-0**

---

**Puget Sound Naval Shipyard**

Code 134, Bldg. 371  
1400 Farragut Ave.  
Bremerton, WA 98314-5000  
Contact: Mr. Michael Heaton  
Phone: 360-476-8091  
Fax: 360-476-5587

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101545-0**

---

**Nova Consulting Group, Inc.**

1107 Hazeltine Boulevard, Suite 400  
Chaska, MN 55318-1008  
Contact: Mr. Steve Cummings  
Phone: 612-448-9393  
Fax: 612-448-9572  
E-Mail: [Novasbc@aol.com](mailto:Novasbc@aol.com)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 101558-0****Con Edison - ChemLab**

31-01 20th Avenue, Bldg. 138  
Long Island City, NY 11105-2048  
Contact: Mr. Edward Chin  
Phone: 718-204-4148  
Fax: 718-956-8058

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

---

**NVLAP LAB CODE 101565-0****Northeast Test Consultants**

587 Spring Street  
P.O. Box 438  
Westbrook, ME 04092  
Contact: Ms. Laura Marles  
Phone: 207-854-3939  
Fax: 207-854-3658  
E-Mail: INFO@NETEST.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101567-0****South Coast Air Quality Management District**

21865 E. Copley Drive  
Diamond Bar, CA 91765-4182  
Contact: Ms. Corazon B. Choa  
Phone: 909-396-2172  
Fax: 909-396-2175  
E-Mail: cchoa@dbar7.aqmd.gov

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101572-0****South Carolina Department of Health & Environmental Control**

Division of Air Quality Analysis  
8231 Parklane Road  
Columbia, SC 29223-4903  
Contact: Mr. Scott A. Reynolds  
Phone: 803-935-7020  
Fax: 803-935-7363  
E-Mail: reynolds@columb36.dhec.state.sc.us

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101578-0****AGX, Inc.**

50 Progress Avenue  
Cranberry Township, PA 16066  
Contact: Mr. Daniel Winkle  
Phone: 724-776-1905  
Fax: 724-776-5714

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101580-0****Precision Testing Laboratories, Inc.**

1909 S. Eastern  
Moore, OK 73160-6060  
Contact: Mr. C. Jack Harrel  
Phone: 405-793-1468  
Fax: 405-793-1489  
E-Mail: ptl@mail.iamerica.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101587-0****Environmental Enterprise Group(EEG), Inc.**

1305 East Main Street  
Russellville, AR 72801  
Contact: Mr. Keith Zimmerman  
Phone: 501-968-6767  
Fax: 501-968-1956  
E-Mail: eeginc@cswnet.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

---

**NVLAP LAB CODE 101593-0****National Environmental Reference Laboratory**

C/O US Geological Survey, MS PHL/NERL  
P.O. Box 25046  
Denver, CO 80225-0046  
Contact: Mr. Bruce Hills  
Phone: 303-236-3455 x500  
Fax: 303-236-3440

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

---

**NVLAP LAB CODE 101594-0****TolTest, Inc.**

1915 North 12th Street  
P.O. Box 2186  
Toledo, OH 43624-1305  
Contact: Ms. Susan Pellitieri  
Phone: 419-241-7175  
Fax: 419-241-1808

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101595-0****Envirotest, Inc.**

3902 Braxton  
Houston, TX 77063-6304  
Contact: Dr. Stuart C. Williams  
Phone: 713-782-4411  
Fax: 713-782-3428  
E-Mail: scw@envirotestinc.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101611-0****Applied Environmental, Inc.**

11800 Sunrise Valley Drive, Suite 1200  
Reston, VA 20191  
Contact: Ms. Jana H. Ambrose  
Phone: 703-648-0822  
Fax: 703-648-0575

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101618-0****Ambient Labs, Inc.**

159 West 25th Street, 8th Floor  
New York, NY 10001-7203  
Contact: Mr. William Esposito, Jr.  
Phone: 212-463-7812  
Fax: 212-463-9397

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101631-0****Pacific Rim Environmental, Inc.**

6510 Southcenter Boulevard  
Tukwila, WA 98188  
Contact: Mr. William F. Golloway  
Phone: 206-244-8965  
Fax: 206-244-9096

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101646-0****Eastern Analytical Services, Inc.**

4 Westchester Plaza  
Elmsford, NY 10523-1610  
Contact: Mr. Paul Stascavage  
Phone: 914-592-8380  
Fax: 914-592-8956  
E-Mail: PaulS@EASInc.com  
URL: <http://www.EASInc.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101649-0****Asbestos Consulting & Testing (ACT)**

14953 West 101st Terrace  
Lenexa, KS 66215  
Contact: Mr. Jim A. Pickel  
Phone: 913-492-1337  
Fax: 913-492-1392

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101656-0****Precision Micro-Analysis, Inc.**

3463 Ramona Avenue, Suite 16  
Sacramento, CA 95826-3827  
Contact: Mr. David G. Fisher  
Phone: 916-456-4892  
Fax: 916-456-1082  
E-Mail: [dreed@ns.net](mailto:dreed@ns.net)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101661-0

**Aurora Consolidated Laboratories**

8901 W. Lincoln Avenue  
West Allis, WI 53227  
Contact: Dr. Leon Saryan  
Phone: 414-328-7944  
Fax: 414-328-8560

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101672-0

**TC Analytics, Inc.**

1200 Boissevain Ave.  
Norfolk, VA 23507  
Contact: Mr. Steven J.E. Long  
Phone: 757-627-0400  
Fax: 757-627-1118  
E-Mail: tcgnorfolk@aol.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 101703-0

**U.S. EPA - National Enforcement Investigations Center**

Box 25227 Bldg. 53, Denver Federal Ctr.  
Denver, CO 80225  
Contact: Ms. Peggy J. Forney  
Phone: 303-236-5132 x267  
Fax: 303-236-5116  
E-Mail: forney.peggy@epamail.epa.gov

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101704-0

**Allegheny Asbestos Analysis**

416 Anthony Street  
Carnegie, PA 15106  
Contact: Ms. Tammy Seiler  
Phone: 412-278-5400  
Fax: 412-278-5404  
E-Mail: TAMTAZ@SGI.NET

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101727-0

**Analyticalab**

8270 Archer Avenue  
Willow Springs, IL 60480  
Contact: Mr. Richard J. Langenderfer  
Phone: 708-839-1338  
Fax: 708-839-6970

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101732-0

**United Analytical Services, Inc.**

4413 West Roosevelt Road, Suite 108  
Hillside, IL 60162-2057  
Contact: Dr. Charles D. Byers  
Phone: 708-449-0070  
Fax: 708-449-9582  
E-Mail: kevin4@flash.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101735-0

**Jimmie Ann Bolton**

2105 Nathan Drive  
Austin, TX 78728-4530  
Contact: Ms. Jimmie Ann Bolton  
Phone: 512-251-8388  
Fax: 512-459-8396

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101755-0

**PSI**

9 East 37th Street, 11th Floor  
New York, NY 10016  
Contact: Mr. Devaraj (VJ) Vijayakumar  
Phone: 212-889-0294  
Fax: 212-889-0493

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999



---

**NVLAP LAB CODE 101759-0****Comprehensive Health Services-Environmental Health PLM Laboratory**

Environmental Health PLM Laboratory  
BOC-022  
Kennedy Space Center, FL 32815  
Contact: Dr. Ronald G. Cable  
Phone: 407-867-9014  
Fax: 407-867-3694  
E-Mail: ronald.cable-1@kmail.ksc.nasa.gov

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101768-0****Carolina Environmental, Inc.**

102-H Commonwealth Court  
Cary, NC 27511  
Contact: Mr. John D. Koenigs  
Phone: 919-481-1413  
Fax: 919-481-1442

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101771-0****Asbestos Analytical**

2519 North Walnut Avenue  
Tucson, AZ 85712-2414  
Contact: Dr. John McLean  
Phone: 520-323-7644  
Fax: 520-323-7644

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101775-0****American Asbestos Laboratories, Inc.**

99 SE 5th Street, 4th Floor  
Miami, FL 33131-2545  
Contact: Dr. Daniel J. Cottrell  
Phone: 305-374-8300  
Fax: 305-374-9004  
E-Mail: eegmiami@mindspring.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101781-0****Covino Environmental Associates, Inc.**

300 Wildwood Avenue  
Woburn, MA 01801  
Contact: Ms. Ann D. Eckmann  
Phone: 781-933-2555  
Fax: 781-932-9402  
E-Mail: covino@tiac.net  
URL: <http://www.covino.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101793-0****A & B Environmental Services, Inc.**

1643 Federal Road  
Houston, TX 77015  
Contact: Mr. Robert L. Voorhies  
Phone: 713-453-6060  
Fax: 713-453-6091  
E-Mail: aandblab@flash.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 101803-0****CAMCO Lab**

11040 Rose Avenue  
Fontana, CA 92337-7051  
Contact: Ms. Pamela Landreth  
Phone: 909-428-3099  
Fax: 909-428-3098

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101807-0****EnvironMETeo Services Inc.**

94-515 Ukee Street, Suite 304  
Waipahu, HI 96797  
Contact: Mr. Clifford How  
Phone: 808-671-8383  
Fax: 808-671-7979  
E-Mail: emet@aloha.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101832-0

**A.R.C. Laboratories, Inc.**  
1323 9th Avenue South  
Grand Forks, ND 58201  
Contact: Mr. Joseph J. Worman  
Phone: 701-772-6496  
Fax: 701-772-6416

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101847-0

**Law Engineering and Environmental Services, Inc.**

22455 Davis Drive, Suite 100  
Sterling, VA 20164  
Contact: Mr. Ronald M. Combs  
Phone: 703-404-7000  
Fax: 703-404-7070

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 101848-0

**Environmental Testing, Inc.**

100 South Cass Street  
P.O. Box 138  
Middletown, DE 19709-0138  
Contact: Ms. Lee Ann Shinaberry  
Phone: 302-378-4955  
Fax: 302-378-9107  
E-Mail: MAC.ECSI@DEL.NET

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101853-0

**RCM Laboratories, Inc.**

5400 East Avenue, Second Floor  
Countryside, IL 60525  
Contact: Dr. Tianbao Bai  
Phone: 708-485-8600  
Fax: 708-485-8607

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101855-0

**Analytical Industries, Inc.**

6025 Kentucky Dam Road  
P.O. Box 3327  
Paducah, KY 42003  
Contact: Mr. Steve Stamper  
Phone: 502-898-8683  
Fax: 502-898-3531  
E-Mail: aii@apex.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101864-0

**Design for Health, Inc.**

3475 Kettner Blvd.  
San Diego, CA 92101  
Contact: Mr. Kabir Shefa  
Phone: 619-291-1777  
Fax: 619-291-4318

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 101868-0

**AIRsearch, Inc.**

Environmental Consultants and Laboratory  
2969 N. 114th Street  
Wauwatosa, WI 53222  
Contact: Ms. Jill Frey  
Phone: 414-476-3131  
Fax: 414-476-2201  
E-Mail: airesrch@execpc.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101869-0

**Northwest Envirocon, Inc.**

101 East 8th Street, Suite 250  
Vancouver, WA 98660  
Contact: Mr. Naresh C. Singh, CQA  
Phone: 360-699-4015  
Fax: 360-699-5223  
E-Mail: nareshsingh@nwenvirocon.com  
URL: <http://www.nwenvirocon.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 101870-0****Sun City Analytical, Inc.**

1409 Montana  
El Paso, TX 79902  
Contact: Ms. Priscilla Acuna  
Phone: 915-533-8840  
Fax: 915-533-8843  
E-Mail: scai@flash.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101871-0****Apollo Environmental, Inc.**

11553 U.S. Highway 41 South  
P.O. Box 239  
Gibsonton, FL 33534-9720  
Contact: Mr. Michael L. Williamson  
Phone: 813-671-3999  
Fax: 813-677-3422

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101872-0****Micro Analytical Laboratories, Inc.**

5900 Hollis Street, Suite M  
Emeryville, CA 94608-2008  
Contact: Mr. Frank Raviola  
Phone: 510-653-0824  
Fax: 510-653-1361  
E-Mail: microlab@labmicro.com  
URL: <http://www.labmicro.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101882-0****Environmental Hazards Services, L.L.C.**

7469 White Pine Road  
Richmond, VA 23237  
Contact: Ms. Irma Faszewski  
Phone: 804-275-4788  
Fax: 804-275-4907  
E-Mail: managerqac@leadlab.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 101884-0****Concord Analysis, Inc.**

9960 Canoga Ave., Suite D8  
Chatsworth, CA 91311-6704  
Contact: Ms. Johanna Fann  
Phone: 818-407-0128  
Fax: 818-882-9409

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 101886-0****Prezant Associates, Inc.**

330 Sixth Avenue North, Suite 200  
Seattle, WA 98109  
Contact: Mr. George G. McCaslin  
Phone: 206-281-8858 x135  
Fax: 206-281-8922  
E-Mail: [jmccaslin@prezant.com](mailto:jmccaslin@prezant.com)  
URL: <http://www.prezant.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 101890-0****Mountain Laboratories**

10905 East Montgomery Avenue, Suite 2  
Spokane, WA 99206  
Contact: Mr. Wade K. Johnston  
Phone: 406-728-7755  
Fax: 406-728-7367  
E-Mail: [mcswade@ism.net](mailto:mcswade@ism.net)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101891-0****Asbestos TEM Laboratories, Inc.**

1409 Fifth Street, Suite C  
Berkeley, CA 94710  
Contact: Mr. R. Mark Bailey  
Phone: 510-528-0108  
Fax: 510-528-0109  
E-Mail: [MBaileyASB@aol.com](mailto:MBaileyASB@aol.com)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101894-0**

**Midwest Laboratories, Inc.**

6246 Joliet Road, Suite 4  
 Countryside, IL 60525  
 Contact: Mr. James P. Hahn  
 Phone: 708-354-7117  
 Fax: 708-354-7142

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 101895-0**

**McCall and Spero Environmental, Inc.**

13005 Middletown Industrial Blvd.  
 Suite H  
 Louisville, KY 40223  
 Contact: Mr. R. Dale McCall  
 Phone: 502-244-7135  
 Fax: 502-244-7136

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101896-0**

**Reservoirs Environmental Services, Inc.**

1827 Grant Street  
 Denver, CO 80203  
 Contact: Ms. Jeanne Spencer Orr  
 Phone: 303-830-1986  
 Fax: 303-863-9196  
 E-Mail: residen@rmi.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101896-1**

**Reservoirs Environmental Services, Inc.**

1147 Brittmore Road, Suite 112  
 Houston, TX 77043  
 Contact: Brett S. Colbert  
 Phone: 713-932-0015  
 Fax: 713-984-0963

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101902-0**

**E. M. Analytical, Inc.**

8000 North Ocean Drive  
 Dania, FL 33004-3078  
 Contact: Ms. Pat Blackwelder  
 Phone: 305-751-1184  
 Fax: 954-921-6747  
 E-Mail: pblackwelder@rsmas.miami.edu

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101904-0**

**Scientific Laboratories, Inc.**

13635 Genito Road  
 Midlothian, VA 23112  
 Contact: Mr. Scot Cooke  
 Phone: 804-763-1200  
 Fax: 804-379-1087  
 E-Mail: SCILAB5@EROLS.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101904-1**

**Scientific Laboratories, Inc.**

117 East 30th Street  
 New York, NY 10016  
 Contact: Dr. Robert E. Tompkins  
 Phone: 212-679-8600  
 Fax: 212-679-9392  
 E-Mail: SCILAB7@EROLS.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 101909-0**

**Analytical Labs San Francisco, Inc.**

470 Potrero Avenue  
 San Francisco, CA 94110  
 Contact: Ms. Olga Kist  
 Phone: 415-552-4595  
 Fax: 415-552-0730  
 E-Mail: alsf@wnet.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999



NVLAP LAB CODE 101910-0

**PBS Environmental Building Consultants, Inc.**

1220 SW Morrison Street, Suite 600  
Portland, OR 97205-2225  
Contact: Mr. Rollie Champe  
Phone: 503-248-1939  
Fax: 503-248-0223

URL: <http://www.pbsebv.com/pbsinfo>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101917-0

**DataChem Laboratories**

4388 Glendale-Milford Road  
Cincinnati, OH 45242-3706  
Contact: Ms. Anna Marie Ristich  
Phone: 513-733-5336  
Fax: 513-733-5347  
E-Mail: JCARTER702@AOL.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101920-0

**Lab/Cor, Inc.**

7619 6th Avenue, NW  
Seattle, WA 98117-4037  
Contact: Mr. John Harris  
Phone: 206-781-0155  
Fax: 206-789-8424  
E-Mail: labcorl@aol.com

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 101926-0

**Environmental Management Consultants, Inc.**

7342 East Thomas Road  
Scottsdale, AZ 85251-7216  
Contact: Mr. Kurt A. Kettler  
Phone: 602-840-8012  
Fax: 602-990-8468  
E-Mail: kkettler@earthlink.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101937-0

**Environmental Testing Laboratories, Inc.**

208 Route 109  
Farmingdale, NY 11735  
Contact: Mr. Daniel J. Spandau  
Phone: 516-249-1456  
Fax: 516-249-8344

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101941-0

**Kevco Services, Inc.**

890 Pittsburgh Road  
Butler, PA 16002-8901  
Contact: Mr. George M. Beck  
Phone: 724-586-6343  
Fax: 724-586-2172

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101948-0

**MACS Lab, Inc.**

2070A Walsh Avenue  
Santa Clara, CA 95050-2531  
Contact: Mr. James A. Richards  
Phone: 408-727-9727  
Fax: 408-727-7065  
E-Mail: jrichards@macslab.com  
URL: <http://www.macslab.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101950-0

**WKP Laboratories, Inc.**

46 South Highland Avenue  
Ossining, NY 10562  
Contact: Mr. Fabio J. Pedone  
Phone: 914-941-1023  
Fax: 914-941-7359

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

NVLAP LAB CODE 101953-0

**JLC Environmental Consultants, Inc.**

200 Park Avenue South, Suite 1001  
New York, NY 10003  
Contact: Mr. Al Wallner  
Phone: 212-420-8119  
Fax: 212-420-6092

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

NVLAP LAB CODE 101958-0

**Athenica Environmental Services, Inc.**

45-09 Greenpoint Avenue  
Long Island City, NY 11104  
Contact: Mr. Spiro Dongaris  
Phone: 718-784-7490  
Fax: 718-784-4085

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

NVLAP LAB CODE 101959-0

**QuanTEM Laboratories, LLC**

2033 Heritage Park Drive  
Oklahoma City, OK 73120-7579  
Contact: Mr. John E. Barnett  
Phone: 405-755-7272  
Fax: 405-755-2058  
E-Mail: quantem ionet.net  
URL: <http://www.quantem.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

---

NVLAP LAB CODE 101965-0

**Bell Laboratories, Division Lucent Technologies, Inc.**

P.O. Box 636, 600 Mountain Avenue  
Murray Hill, NJ 07974-0636  
Contact: Ms. Lisa Brooks  
Phone: 908-582-7157  
Fax: 908-582-7233  
E-Mail: LB@lucent.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

NVLAP LAB CODE 101967-0

**NY Environmental & Analytical Labs, Inc.**

88 Harbor Road  
Port Washington, NY 11050  
Contact: Mr. Li Tsang  
Phone: 516-944-9500  
Fax: 516-944-9507  
E-Mail: ltsang@idt.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

NVLAP LAB CODE 101970-0

**PSI**

500 West Central Avenue, Suite A  
Brea, CA 92821  
Contact: Ms. Lauren Johnstone  
Phone: 714-671-1072  
Fax: 714-529-7229

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

NVLAP LAB CODE 101973-0

**Law Engineering and Environmental Services, Inc.**

7616 LBJ Freeway, Suite 600  
Dallas, TX 75251  
Contact: Mr. John R. Cates  
Phone: 972-934-0800  
Fax: 972-934-1429  
E-Mail: jcates@lawco.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

NVLAP LAB CODE 101974-0

**Rapid Environmental Management, Inc.**

171 Great Neck Road  
Great Neck, NY 11021  
Contact: Mr. Joseph Sterinbach  
Phone: 516-482-3003  
Fax: 516-482-3076

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101977-0

**ACM Environmental, Inc.**  
229 South Michigan Street  
South Bend, IN 46601  
Contact: Mr. Michael A. Dials  
Phone: 219-234-8435  
Fax: 219-234-6800

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101990-0

**Iowa Environmental Services, Inc.**

4801 Grand Avenue  
Des Moines, IA 50312  
Contact: Mr. Richard E. Soyer  
Phone: 515-279-8042  
Fax: 515-279-1853

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 101996-0

**GA Environmental Services, Inc.**

401 Baldwin Tower  
1510 Chester Pike  
Eddystone, PA 19022  
Contact: Ms. Delores S. Beard  
Phone: 610-874-7405  
Fax: 610-874-7823

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 101997-0

**Hygieneering, Inc.**

7575 Plaza Court  
Willowbrook, IL 60521  
Contact: Ms. Jacqueline M. Cadwallader  
Phone: 630-654-2550  
Fax: 630-789-3813

URL: <http://www.hygieneering.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 102000-0

**Louisiana Department of Environmental Quality  
Microanalytical Lab**

Microanalytical Lab  
8000 GSRI Avenue, Building #402  
Baton Rouge, LA 70820  
Contact: Ms. Pamela D. Ellis  
Phone: 504-765-0876  
Fax: 504-765-0048  
E-Mail: [pame@deq.state.la.us/](mailto:pame@deq.state.la.us/)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102001-0

**Testing Mechanics Corp.**

3770 Merrick Road  
Seaford, NY 11783-2815  
Contact: Mr. Kevin Tumulty  
Phone: 516-221-3800  
Fax: 516-221-3810

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102003-0

**GLE Associates, Inc.**

1451 Channelside Drive, Suite 200  
Tampa, FL 33605  
Contact: Mr. James Watson  
Phone: 813-241-8350  
Fax: 813-241-8737

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102005-0

**University of Alabama Asbestos Laboratory**

Bryant Drive - Martha Parham West  
P.O. Box 870388  
Tuscaloosa, AL 35487-0388  
Contact: Ms. Lynn M. Fondren  
Phone: 205-348-8571  
Fax: 205-348-9286  
E-Mail: [LFONDREN@CCS.UA.EDU](mailto:LFONDREN@CCS.UA.EDU)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 102006-0****Solar Environmental Services, Inc.**

1131 E. 76th Avenue, Suite 102  
Anchorage, AK 99518  
Contact: Ms. Gracita O. Torrijos  
Phone: 907-349-7705  
Fax: 907-349-7944  
E-Mail: sesenvir@ak.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102008-0****Micro Air of Texas, Inc.**

1052 Hercules Drive  
Houston, TX 77058  
Contact: Mr. Eric Eitzen  
Phone: 281-280-9965  
Fax: 281-280-9847

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102010-0****Fluor Daniel Fernald, Inc., Analytical Laboratory Services**

P.O. Box 538704  
Cincinnati, OH 45253-8704  
Contact: Ms. Amy Meyer  
Phone: 513-648-5423  
Fax: 513-648-5198

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102011-0****Airtek Environmental Corp.**

39 West 38th Street, 12th Floor  
New York, NY 10018  
Contact: Mr. Saad Zouak  
Phone: 212-768-0516  
Fax: 212-768-0759

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102012-0****JMS Environmental Associates, Ltd.**

816 Burr Oak Drive  
Westmont, IL 60559  
Contact: Mr. John Aschbacher  
Phone: 630-655-8500  
Fax: 630-655-8724  
E-Mail: jms@starnetinc.com

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: March 31, 1999

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102013-0****Hi-Tech Environmental and Laboratory Services**

DBA Hi-Tech Environmental & Lab. Srvs.  
5396 Lincoln Ave., Suite A  
Cypress, CA 90630  
Contact: Ms. Gwenda Hatcher  
Phone: 714-827-0693  
Fax: 714-827-0695  
E-Mail: Hitechol@ix.netcom.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 102015-0****ABM Environmental Consultants, Inc.**

32-08 38th Ave., Suite 203  
Long Island City, NY 11101  
Contact: Mr. Victor Khanin  
Phone: 718-472-0558  
Fax: 718-472-0548

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102020-0****Los Angeles Harbor Department Testing Laboratory**

P.O. Box 786, 514 Pier A Street  
Wilmington, CA 90744-6499  
Contact: Mr. George Horeczko  
Phone: 310-732-3976  
Fax: 310-835-5717

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999



NVLAP LAB CODE 102021-0

**Safe Environment of America**

dba Med-Tox Northwest  
19032 66th Avenue S., #C-105  
Kent, WA 98032  
Contact: Mr. Scott Harper  
Phone: 425-656-2920  
Fax: 425-656-2924  
E-Mail: medtownw@msn.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102025-0

**OCCU-TEC, Inc.**

6700 Corporate Drive, Suite 130  
Kansas City, MO 64120  
Contact: Mr. Geoffrey Smith  
Phone: 816-231-5580  
Fax: 816-231-5641  
E-Mail: occutec@unicom.net  
URL: <http://www.occutec.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102029-0

**ESG Laboratories**

5933 W. 71st Street  
Indianapolis, IN 46278  
Contact: Ms. Mary Dunlap  
Phone: 317-290-1471  
Fax: 317-290-1670

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 102031-0

**ATC Environmental, Inc.**

6746 South Revere Parkway, Suite 180  
Englewood, CO 80112-6708  
Contact: Mr. Jeffrey Lomme  
Phone: 303-799-6100  
Fax: 301-799-3441

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102033-0

**Analytical Environmental Services, Inc.**

3781 Presidential Parkway, Suite 111  
Atlanta, GA 30340  
Contact: Mr. Mehmet Yildirim  
Phone: 770-457-8177  
Fax: 770-457-8188  
E-Mail: EPHESUS@worldnet.att.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 102035-0

**Law Engineering and Environmental Services, Inc.**

4634 S. 36th Place  
Phoenix, AZ 85040  
Contact: Mr. Michael A. Cook  
Phone: 602-437-0250  
Fax: 602-437-3675

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102041-0

**R. Robinson Analytical Services, Inc.**

1960 Peyton Drive  
Pensacola, FL 32503  
Contact: Mr. William F. Robin Robinson  
Phone: 850-438-5552  
Fax: 850-432-7394  
E-Mail: rrobinson@gulf.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102043-0

**Water, Earth Solutions & Technologies, Inc.**

17130 Dallas Parkway, Suite 120  
Dallas, TX 75248-1139  
Contact: Mr. Karl Schul  
Phone: 972-380-9444  
Fax: 972-380-9449

URL: <http://www.water-earth.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 102044-0**

---

**Loflin Environmental Services**

2020 Montrose, Suite 100

Houston, TX 77006

Contact: Mr. James Murray

Phone: 713-521-3300

Fax: 713-523-0829

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102046-0**

---

**Criterion Laboratories, Inc.**

3370 Progress Drive, Suite J

Bensalem, PA 19020

Contact: Ms. Parvaneh S. Sulon

Phone: 215-244-1300

Fax: 215-244-4349

E-Mail: CriterionL@aol.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102047-0**

---

**KAM Consultants**

5-17 48th Avenue

Long Island City, NY 11101

Contact: Mr. George Kouvaras

Phone: 718-729-1997

Fax: 718-729-1876

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102050-0**

---

**Occupational Health Conservation, Inc.**

1840 Southside Blvd., Suite 3C

Jacksonville, FL 32216-0317

Contact: Ms. A. Lynn Bundoc

Phone: 904-725-8279

Fax: 904-721-2809

E-Mail: lab@ohcnet.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102053-0**

---

**Dove Environmental Corporation**

4715 NW 157th Street, Suite 203

Miami, FL 33014

Contact: Mr. Rajendranath Ramnath

Phone: 305-620-6050

Fax: 305-620-6350

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102056-0**

---

**Steve Moody Micro Services, Inc.**

1510 Randolph St., Suite #602

Carrollton, TX 75006

Contact: Mr. Steve Moody

Phone: 972-446-9482

Fax: 972-446-9870

E-Mail: SMMS1@AIRMAIL.NET

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102057-0**

---

**Niche Analysis, Inc.**

6 Gramatan Avenue, Suite 404

Mount Vernon, NY 10550

Contact: Dr. Thomas Palackal

Phone: 914-663-8937

Fax: 914-663-8782

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102060-0**

---

**Froehling & Robertson, Inc.**

3015 Dumbarton Road

P.O. Box 27524

Richmond, VA 23261-7524

Contact: Mr. Jeffrey M. Hudson

Phone: 804-264-2701

Fax: 804-266-1275

E-Mail: AOL@FRChemical

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102061-0

**Omni Environmental, Inc.**

13740 Research Blvd., Suite H-5  
Austin, TX 78750  
Contact: Mr. Joseph Mink  
Phone: 512-258-9114  
Fax: 512-258-9115  
E-Mail: jmink@prismnet.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102062-0

**National Econ Corporation**

730 El Camino Real  
Tustin, CA 92780  
Contact: Mr. Mark S. Ervin  
Phone: 714-730-9235  
Fax: 714-730-9236  
E-Mail: <http://nationaleconcorp.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 102063-0

**NVL Laboratories, Inc.**

4708 Aurora Avenue N.  
Seattle, WA 98103  
Contact: Mr. Nghiep Vi Ly  
Phone: 206-547-0100  
Fax: 206-634-1936  
E-Mail: munaf@nvlabs.com  
URL: <http://www.nvlabs.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 102064-0

**GPU Nuclear Chemistry/Materials Labs.**

Route 183 & Van Reed Road  
P.O. Box 15152  
Reading, PA 19612-5152  
Contact: Mr. Barry Llewellyn  
Phone: 610-375-5494  
Fax: 610-375-5820  
E-Mail: BLLEWELLYN@GPU.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 102065-0

**Wonder Makers Environmental, Inc.**

2117 Lane Boulevard  
P.O. Box 50209  
Kalamazoo, MI 49005-0209  
Contact: Dr. Michael Pinto  
Phone: 616-382-4154  
Fax: 616-382-4161  
E-Mail: info@wondermakers.com  
URL: <http://www.wondermakers.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 102071-0

**ATC Associates Inc.**

11121 Canal Road  
Cincinnati, OH 45241  
Contact: Mr. Karl D. Feldmann  
Phone: 513-771-2112  
Fax: 513-782-6920  
E-Mail: feldman72@atc-enviro.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 102073-0

**Triad Environmental Consulting, Inc.**

309 3rd Avenue  
Huntington, WV 25701  
Contact: Mr. Brian E. Galligan  
Phone: 304-523-2195  
Fax: 304-523-2197  
E-Mail: Duxster@earthlink.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102075-0

**S&ME, Inc.**

9751 Southern Pine Boulevard  
P.O. Box 7668  
Charlotte, NC 28241-7668  
Contact: Mr. Charles J. Brockman  
Phone: 704-523-4726  
Fax: 704-525-3953

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 102077-0

**Henderson/Longfellow Associates, Inc.**

33 Fourth St. North  
St. Petersburg, FL 33701  
Contact: Mr. John J. Henderson  
Phone: 727-550-0603  
Fax: 727-550-9315

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 102078-0

**FRS Geotech, Inc.**

1441 West 46th Avenue, Suite 14  
Denver, CO 80211-2338  
Contact: Mr. Ed Raines  
Phone: 303-477-2559  
Fax: 303-477-2580  
E-Mail: frsgeo@ix.netcom.com  
URL: <http://www.netcome.com/frsgeo/>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 102079-0

**SCILAB BOSTON, Inc.**

8 School Street  
East Weymouth, MA 02189  
Contact: Mr. John Sulkowski  
Phone: 781-337-9334  
Fax: 781-337-7642

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102080-0

**National Analytical Laboratories, Inc.**

503 Giuseppe Court #8  
Roseville, CA 95678  
Contact: Mr. Ron Weyand  
Phone: 916-786-7555  
Fax: 916-786-7459

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102081-0

**Legend Technical Services, Inc.**

775 Vandalia Street  
St. Paul, MN 55114  
Contact: Ms. Cheryl Sykora  
Phone: 612-642-1150  
Fax: 612-642-1239

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102082-0

**Geo-Analytical Services, Inc.**

3125 Marjan Drive  
Atlanta, GA 30340  
Contact: Dr. A. Mohamad Ghazi  
Phone: 770-454-6333  
Fax: 770-451-3151

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 102085-0

**Muranaka Environmental Consultants, Inc.**

500 Alakawa Street, Suite 220  
P.O. Box 4341  
Honolulu, HI 96812  
Contact: Mr. Mark T. Muranaka  
Phone: 808-848-8866  
Fax: 808-847-5267  
E-Mail: MMURANAKA@AOL.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 102086-0

**Dolphin Environmental Consultants**

10707 Corporate Drive, Suite 102  
Stafford, TX 77477-4001  
Contact: Mr. Joseph Bury  
Phone: 281-240-4646  
Fax: 281-240-5659  
E-Mail: JBURY@COMPUSERVE.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999



---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 102087-0**

---

**Hygeia Laboratories, Inc.**

1300 Williams Drive, Suite A  
Marietta, GA 30066-6299  
Contact: Mr. Clayton Call  
Phone: 770-514-6933  
Fax: 770-514-6966

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102089-0**

---

**Alpine Consulting, Inc.**

1602 South Murray Blvd.  
Colorado Springs, CO 80916  
Contact: Mr. Kevin R. Weaver  
Phone: 719-591-2535  
Fax: 719-591-2536

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102090-0**

---

**Bay Area Air Quality Management District**

939 Ellis Street  
San Francisco, CA 94109  
Contact: Ms. Cleofina David  
Phone: 415-749-4629  
Fax: 415-749-5101

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102091-0**

---

**Converse Consultants MR, Inc.**

4840 Mill Street #5  
Reno, NV 89502  
Contact: Mr. Dan R. Dolk  
Phone: 702-856-3833  
Fax: 702-856-3513

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102093-0**

---

**EssTek Ohio, Inc.**

6950 Engle Road #B  
Middleburg Heights, OH 44130-3420  
Contact: Mr. Clifford W. Thomas  
Phone: 440-826-4220  
Fax: 440-826-3841

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102101-0**

---

**Taylor Environmental Group, Inc.**

130 Jericho Turnpike  
Floral Park, NY 11001  
Contact: Mr. George Taylor  
Phone: 516-358-2955  
Fax: 516-358-1780

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 102102-0**

---

**American Electric Power, Environmental Laboratory**

Environmental Laboratory  
1 Riverside Plaza  
Columbus, OH 43215-2373  
Contact: Mr. Geoffrey E. Campbell  
Phone: 614-836-4210  
Fax: 614-836-4168  
E-Mail: [Geoffrey\\_E.\\_Campbell@AEP.COM](mailto:Geoffrey_E._Campbell@AEP.COM)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102104-0**

---

**EMSL Analytical, Inc.**

620-G Guilford College Road  
Greensboro, NC 27409  
Contact: Mr. Matthew Thomas  
Phone: 336-297-1487  
Fax: 336-297-1676

URL: <http://www.emsl.com/>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

---

**NVLAP LAB CODE 102105-0**

---

**EMSL Analytical, Inc.**

20 Altieri Way #4  
Warwick, RI 02886  
Contact: Mr. Donald Pellegrino  
Phone: 401-738-7710  
Fax: 401-738-7869

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 102106-0**

---

**EMSL Analytical, Inc.**

2501 Central Parkway, Suite C-13  
Houston, TX 77092  
Contact: Mr. Lee W. Poye  
Phone: 713-686-3635  
Fax: 713-686-3645

URL: <http://www/emsl.com/>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102108-0**

---

**m.a.c. Paran Consulting Services, Inc.**

Analytical Laboratory  
325 West Ohio Pike, Suite 202  
Amelia, OH 45102  
Contact: Mr. Daniel T. Woody  
Phone: 513-752-9111  
Fax: 513-752-7973

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 102111-0**

---

**Cape Environmental Management, Inc.**

2302 Parklake Drive, Suite 200  
Atlanta, GA 30345-2907  
Contact: Mr. Aleksey Reznik  
Phone: 770-908-7200  
Fax: 770-908-7219

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102112-0**

---

**Oklahoma Dept. of Environmental Quality-State Environmental Lab**

1000 NE 10th Street  
Oklahoma City, OK 73117-1212  
Contact: Mr. Chris Armstrong  
Phone: 405-271-5240  
Fax: 405-271-1836  
E-Mail: CHRIS.Armstrong@degmail.state.ok.us

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 102113-0**

---

**MRS., Analytical Laboratory, Inc.**

233 W. Broadway, Suite #504  
Louisville, KY 40202  
Contact: Mr. Winterford Mensah  
Phone: 502-568-2088  
Fax: 502-491-7111

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102114-0**

---

**EAI, Inc.**

454 Central Avenue  
Jersey City, NJ 07307  
Contact: Mr. Robert Carvalho  
Phone: 201-714-9858  
Fax: 201-714-9895

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

**NVLAP LAB CODE 102115-0**

---

**Industrial Laboratory**

Norfolk Naval Shipyard  
Building 184, 3rd Fl.  
Portsmouth, VA 23709-5000  
Contact: Mr. Robert West  
Phone: 757-396-3207  
Fax: 757-396-3972  
E-Mail: rwest@nnsy\_ns00.nnsy.navy.mil

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 102116-0

**Hygeia Laboratories Inc.**

82 W. Sierra Madre Blvd.  
Sierra Madre, CA 91024-2434  
Contact: Mr. Gustavo Delgado  
Phone: 626-355-4711  
Fax: 626-355-4497  
E-Mail: gdelgado77@atc-enviro.com  
URL: <http://home.earthlink.net/delgadog>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 102118-0

**Apex Research Laboratory**

8741 Main Street, Suite A  
Whitmore Lake, MI 48189  
Contact: Mr. Robert Letarte  
Phone: 734-449-9990  
Fax: 734-449-9991

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200002-0

**Cryptographic Equipment Assessment Lab.  
(CEAL)**

a CygnaCom Solutions Lab.  
7927 Jones Branch Drive, Suite 100 West  
McLean, VA 22102-3305  
Contact: Mr. Santosh Chokhani  
Phone: 703-848-0883  
Fax: 703-848-0960  
E-Mail: [chokhani@cygnacom.com](mailto:chokhani@cygnacom.com)  
URL: <http://cygnacom.com>

**Cryptographic Modules Testing**

Accreditation Valid Through: June 30, 1999

NVLAP

Code	Designation
17/C01	NIST-CSTT:140-1; National Institute of Standards and Technology-Cryptographic Support Test Tool (CSTT) for the Federal Information Processing Standard 140-1 (FIPS 140-1) "Security Requirements for Cryptographic Modules."
17/C01a	Test Method Group 1: All test methods derived from FIPS 140-1 and specified in the CSTT, except those listed in Group 2 and Group 3.
17/C01b	Test Method Group 2: Test methods for Physical Security, Level 4 derived from FIPS 140-1 and specified in the CSTT
17/C01c	Test Method Group 3: Test methods for Software Security, Level 4 derived from FIPS 140-1 and specified in the CSTT

NVLAP LAB CODE 200004-0

**Integrity Design & Test Services, Inc.**

37 Ayer Road, Unit #7  
Littleton, MA 01460  
Contact: Mr. Michael C. Boucher  
Phone: 978-486-0432  
Fax: 978-486-3538  
E-Mail: [mboucher@idts.com](mailto:mboucher@idts.com)  
URL: [integrity@idts.com](mailto:integrity@idts.com)

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code	Designation
12/T51	AS/NZS 3548
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

*Federal Communications Commission (FCC) Methods*

*International Special Committee on Radio Interference*

*(CISPR) Methods*

NVLAP LAB CODE 200005-0

**Motorola Product Quality Assurance Laboratory**

20 Cabot Boulevard  
Mansfield, MA 02048  
Contact: Mr. James E. Powers  
Phone: 508-261-5241  
Fax: 508-339-6738  
E-Mail: [LJP018@email.mot.com](mailto:LJP018@email.mot.com)

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code	Designation
12/T51	AS/NZS 3548
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

*Federal Communications Commission (FCC) Methods*

*International Special Committee on Radio Interference*

*(CISPR) Methods*

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

## NVLAP LAB CODE 200006-0

### NJSP Calibration Laboratory

166 River Road  
Princeton, NJ 08540-2939  
Contact: SGT. John Connolly  
Phone: 609-538-6059  
Fax: 609-538-0345

### Ionizing Radiation Dosimetry

Accreditation Valid Through: March 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing the Teledyne automatic reader model 9150.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 through testing.

Teledyne TLD model PB5 for ANSI-N13.11 categories II, IV.

## NVLAP LAB CODE 200007-0

### Lithonia Testing Laboratories

1335 Industrial Blvd.  
P.O. Box A  
Conyers, GA 30012-9001  
Contact: Mr. James Hospodarsky  
Phone: 770-922-9000 x2424  
Fax: 770-929-8789

### Energy Efficient Lighting Products

Accreditation Valid Through: September 30, 1999

#### NVLAP

Code Designation

### Luminaires (Lighting Fixtures)

22/F04 IES LM-41

## NVLAP LAB CODE 200010-0

### Tri-State Materials Testing Lab, Inc.

101A Liberty Street  
Newington, CT 06111  
Contact: Mr. John P. Chmielorz  
Phone: 203-666-9954  
Fax: 203-666-0195  
E-Mail: mattestlab@aol.com  
URL: <http://www.materials-testing.com>

### Construction Materials Testing

Accreditation Valid Through: September 30, 1999

#### NVLAP

Code Designation

### Aggregates

02/A03 ASTM C29  
02/A04 ASTM C40  
02/A07 ASTM C117  
02/A09 ASTM C127

02/A10 ASTM C128  
02/A12 ASTM C136  
02/A15 ASTM D75  
02/A44 ASTM C566  
**Cement**  
02/A17 ASTM C109  
02/A22 ASTM C183  
**Concrete**  
02/A01 ASTM C39  
02/A02 ASTM C617  
02/A41 ASTM C192  
02/A43 ASTM C1064  
02/G01 ASTM C31/C172/C143/C138/C231  
**Road and Paving Materials**  
02/M08 ASTM D979  
02/M24 ASTM D2041  
02/M25 ASTM D2726  
**Soil and Rock**  
02/L02 ASTM D422  
02/L04 ASTM D698  
02/L06 ASTM D1140  
02/L08 ASTM D1557  
02/L13 ASTM D2216  
02/L20 ASTM D4318  
**Standard Practices**  
02/A39 ASTM C1077

## NVLAP LAB CODE 200012-0

### IPS Corporation

4593, Hosohora Ono, Tatsuno-machi,  
Kamiina-gun, Nagano-ken, P.O. Box 399-06  
Nagano 399-06  
JAPAN  
Contact: Mr. Takashi Maruyama  
Phone: +81-266-44-5200  
Fax: +81-266-44-5300  
E-Mail: [maruyama@ips-emc.co.jp](mailto:maruyama@ips-emc.co.jp)  
URL: <http://www.ips-emc.co.jp>

### FCC Test Methods

Accreditation Valid Through: December 31, 1999

#### NVLAP

Code Designation

### Australian Standards referred to by clauses in AUSTEL

#### Technical Standards

12/T51 AS/NZS 3548

### Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions

### International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment



NVLAP LAB CODE 200013-0

**ENCORP**

615 North Nash Street, Suite 203  
El Segundo, CA 90245  
Contact: Mr. Felix Mateo  
Phone: 310-640-9811  
Fax: 310-640-9804

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 200014-0

**Austin Analytical Laboratory**

2401 Holly Street  
P.O. Box 1088  
Austin, TX 78767-8814  
Contact: Mr. Larry K. Mutschler  
Phone: 512-505-7842  
Fax: 512-505-7843  
E-Mail: mutschler@electric.austin.tx.us

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 200016-0

**Daybrite Lighting (Genlyte Thomas Group)  
Photometric Laboratory**

1015 S. Green Street  
P.O. Box 1687  
Tupelo, MS 38802-1687  
Contact: Dr. David W. Knoble, P.E.  
Phone: 601-842-7212  
Fax: 601-841-5596

**Energy Efficient Lighting Products**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code	Designation
------	-------------

**Luminaires (Lighting Fixtures)**

22/F01	IES LM-10
22/F03	IES LM-35
22/F04	IES LM-41
22/F05	IES LM-46

NVLAP LAB CODE 200017-0

**DOMUS ITSL, a division of LGS Group,  
Incorporated**

309 Cooper Street, 5th Floor  
Ottawa Ontario K2P 0G5  
CANADA  
Contact: Mr. Robert Macdonald  
Phone: 613-230-6285 x339  
Fax: 613-230-3274  
E-Mail: bob\_macdonald@lgs.ca  
URL: <http://www.domus.com>

**Cryptographic Modules Testing**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code	Designation
------	-------------

17/C01	NIST-CSTT:140-1; National Institute of Standards and Technology-Cryptographic Support Test Tool (CSTT) for the Federal Information Processing Standard 140-1 (FIPS 140-1) "Security Requirements for Cryptographic Modules."
17/C01a	Test Method Group 1: All test methods derived from FIPS 140-1 and specified in the CSTT, except those listed in Group 2 and Group 3.
17/C01b	Test Method Group 2: Test methods for Physical Security, Level 4 derived from FIPS 140-1 and specified in the CSTT
17/C01c	Test Method Group 3: Test methods for Software Security, Level 4 derived from FIPS 140-1 and specified in the CSTT

NVLAP LAB CODE 200018-0

**Test-Con Incorporated**

80 Sand Pit Road  
P.O. Box 3116  
Danbury, CT 06813-3116  
Contact: Mr. Chin Okwuka  
Phone: 203-748-3012  
Fax: 203-778-0633  
E-Mail: TestConInc@aol.com

**Construction Materials Testing**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code	Designation
------	-------------

**Aggregates**

02/A03	ASTM C29
02/A04	ASTM C40
02/A07	ASTM C117
02/A09	ASTM C127
02/A10	ASTM C128
02/A12	ASTM C136
02/A15	ASTM D75

**Cement**

02/A52	ASTM C1019
--------	------------

**Concrete**

02/A01	ASTM C39
--------	----------

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

02/A02 ASTM C617  
02/A41 ASTM C192  
02/A43 ASTM C1064  
02/A45 ASTM C42  
02/G01 ASTM C31/C172/C143/C138/C231  
02/G02 ASTM C173

**Soil and Rock**

02/L02 ASTM D422  
02/L04 ASTM D698  
02/L06 ASTM D1140  
02/L07 ASTM D1556  
02/L08 ASTM D1557  
02/L16 ASTM D2487  
02/L17 ASTM D2488  
02/L20 ASTM D4318  
02/L23 ASTM D2922  
02/L24 ASTM D2974  
02/L31 ASTM D2167

**Standard Practices**

02/A38 ASTM E329  
02/A39 ASTM C1077

---

**NVLAP LAB CODE 200019-0****EMSL Analytical, Inc.**

1001 SW Klickitat Way, Suite 107  
Seattle, WA 98134  
Contact: Ms. Carol Evans  
Phone: 206-233-9007  
Fax: 206-233-9011

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: March 31, 1999

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 200020-0****Hubbell Lighting Photometric Laboratory**

2000 Electric Way  
Christiansburg, VA 24073-2502  
Contact: Mr. Robert C. Speck  
Phone: 540-382-6111 x239  
Fax: 540-382-1544  
E-Mail: rcspeck@hubbell-ltg.com  
URL: www.hubbell-ltg.com/default.htm/photlab.html

**Energy Efficient Lighting Products**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**Luminaires (Lighting Fixtures)**

22/F01 IES LM-10  
22/F02 IES LM-31  
22/F03 IES LM-35  
22/F04 IES LM-41  
22/F05 IES LM-46

---

**NVLAP LAB CODE 200021-0****Wayne Langston, Inc.**

P.O. Box 1377  
League City, TX 77574-1377  
Contact: Mr. Wayne Langston  
Phone: 281-337-6785  
Fax: 281-337-7217  
E-Mail: langstoninc@msn.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions  
**International Special Committee on Radio Interference (CISPR) Methods**  
12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200024-0****Enviro Techniques, Inc.**

22 California Avenue  
Paterson, NJ 07503  
Contact: Mr. Frank Marino  
Phone: 973-684-0202  
Fax: 973-684-3007

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 200025-0****CHEMTEX Environmental Laboratory, Inc.**

3082 25th Street  
P.O. Box 3922  
Port Arthur, TX 77642  
Contact: Dr. C. N. Reddy  
Phone: 409-983-4575  
Fax: 409-983-2126

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 200027-0

**Vartest Laboratories, Inc.**

19 West 36th Street, 10th Floor  
New York, NY 10018-7909  
Contact: Mr. Adam R. Varley  
Phone: 212-947-8391  
Fax: 212-947-8719  
E-Mail: avarley@vartest.com  
URL: http://www.vartest.com

**Carpet and Carpet Cushion**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Tests Applicable to Carpet and Carpet Cushion**

03/T01 AATCC 16 (Option E)  
03/T02 ASTM D2646 (Secs. 16-24)  
03/T04 16 CFR Part 1630 (FF-1-70)

**Tests Applicable to Carpets**

03/G01 AATCC 20  
03/G02 AATCC 20A  
03/G04 AATCC 165

NVLAP LAB CODE 200030-0

**Dodge-Regupol, Inc. Laboratory**

715 Fountain Avenue  
P.O. Box 989  
Lancaster, PA 17608-0989  
Contact: Mr. Clyde T. Diffendall  
Phone: 717-295-3400 x262  
Fax: 717-295-3414

**Commercial Products Testing**

Accreditation Valid Through: March 31, 1999

NVLAP

Code Designation

**Plastics**

15/A23 ASTM D412 (Para. 17.2.2, 17.6)  
15/A24 ASTM D573  
15/A25 ASTM D624  
15/A26 ASTM D2240  
15/A30 ASTM D297 (Sec. 16; Para. 16.3)

NVLAP LAB CODE 200031-0

**Intertek Testing Services NA Inc.**

8431 Murphy Drive  
Middleton, WI 53562  
Contact: Mr. Nigel Stamp  
Phone: 608-836-4400  
Fax: 608-831-9279  
E-Mail: nstamp@itsqs.com  
URL: http://www.worldlab.com

**Thermal Insulation Materials**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Thermal Resistance**

01/T04 ASTM C236

NVLAP LAB CODE 200032-0

**ITEK Enviro Services, Inc.**

901 Grandview Drive  
South San Francisco, CA 94080-4931  
Contact: Ms. Olivia A. Alejandro  
Phone: 650-952-8501  
Fax: 650-424-0336

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200033-0

**3M Product Safety EMC Laboratory**

410 E. Fillmore Avenue  
Bldg 76-1-01  
St. Paul, MN 55144-1000  
Contact: Mr. Greg Demaray  
Phone: 612-736-4427  
Fax: 612-737-1035  
E-Mail: gedemaray@mmm.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

NVLAP

Code Designation

**Australian Standards referred to by clauses in AUSTEL**

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions

**International Special Committee on Radio Interference**

**(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200034-0

**EMSL Analytical, Inc.**

Westwood Business Park 1801 Royal Lane  
Suite 908  
Dallas, TX 75229  
Contact: Mr. Thomas A. Schifani  
Phone: 972-831-9725  
Fax: 972-444-0884

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 200036-0

**Quest Engineering Solutions, Inc.**

7 Sterling Road  
P.O. Box 125  
N. Billerica, MA 01862  
Contact: Mr. Glenn Ryan  
Phone: 978-667-7000  
Fax: 978-667-3388  
E-Mail: info@QES.com  
URL: http://www.QES.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code      Designation*

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51      AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01      FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a      Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b      Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22      IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200037-0

**Western Analytical Laboratory**

3017 N. San Fernando Blvd., Suite A  
Burbank, CA 91504-4704  
Contact: Mr. Mike Maladzhikyan  
Phone: 818-845-7766  
Fax: 818-845-7742  
E-Mail: wal@pacificnet.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 200039-0

**TUV Telecom Services, Inc.**

1775 Old Highway 8, Suite 107/108  
St. Paul, MN 55112-1891  
Contact: Mr. David A. Freemore  
Phone: 612-639-0775  
Fax: 612-639-0873  
E-Mail: dreemore@earthlink.net  
URL: http://www.detecon-us.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code      Designation*

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T47      TS-013  
12/T48      TS-014  
12/T49      TS-016

*Federal Communications Commission (FCC) Methods*

12/T01      Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital  
12/T01a      68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection  
12/T01b      68.316 Hearing Aid Compatibility: technical standards  
12/T01c      68.302 Environmental simulation (Par. a,b)



NVLAP LAB CODE 200040-0

**LG Electronics, Inc., Quality and Reliability Center**

36, Munlae-dong, 6-ga Youngdungpo-gu  
Seoul 150-096

KOREA

Contact: Mr. Tae-Yeong Oh

Phone: 82 2 630 3008

Fax: 82 2 630 3050

E-Mail: tyojlight@lge.co.kr

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200041-0

**Kingston Environmental Laboratory**

1600 S.W. Market

Lee's Summit, MO 64081-3109

Contact: Ms. Melissa McKee

Phone: 816-246-8746

Fax: 816-251-8102

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 200042-0

**PSI, Inc.**

16601 West Dakota Street

New Berlin, WI 53151-3540

Contact: Mr. Jim Updike

Phone: 414-641-0911

Fax: 414-641-0918

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 200044-0

**U.S. Army Center for Health Promotion and Preventive Medicine**

Attn: MCHB-TS-L, Bldg. E-2100

5158 Blackhawk Road

Aberdeen Proving Ground, MD 21010-5422

Contact: Ms. Rosemary Gaffney

Phone: 410-436-2208

Fax: 410-436-8315

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 200045-0

**Willamette Industries, Inc. West Coast Development Lab**

9130 SW Pioneer Court, Suite D

Wilsonville, OR 97070

Contact: Mr. Gary Vosler

Phone: 503-682-4995

Fax: 503-682-4545

E-Mail: gvosler@wii.com

**Commercial Products Testing**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

*Paper and Related Products*

09/E02 TAPPI T402-OM; ASTM D685

09/E05 TAPPI T410-OM

09/E06 TAPPI T411-OM

09/E11 TAPPI T452-OM

09/E17 TAPPI T494-OM

09/E20 TAPPI T809-OM

09/E21 TAPPI T818-OM

09/E22 TAPPI T807-OM

09/E25 TAPPI T826-PM

09/E27 TAPPI UM-403

09/E29 TAPPI T476-OM

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

09/H01 ASTM D642; TAPPI T804-OM  
09/H24 TAPPI T802-OM  
09/H28 TAPPI T810-OM  
09/H29 TAPPI T811-OM  
09/H30 TAPPI T821-OM

**NVLAP LAB CODE 200046-0****Maxim Technologies, Inc.**

662 Cromwell Avenue  
St. Paul, MN 55114-1776  
Contact: Mr. Richard S. Alberg  
Phone: 612-659-7528  
Fax: 612-659-7229  
E-Mail: RALBERG.STPAUL@MAXIMMAIL.COM

**Thermal Insulation Materials**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Mass, Density, and Dimensional Stability**

01/D03	ASTM C209 (Sec. 6)
01/D04	ASTM C209 (Sec. 13)
01/D05	ASTM C209 (S. 13) by D1037 (S. 100-106)
01/D06	ASTM C209 (S. 14) by D1037 (S. 107-110)
01/D07	ASTM C272
01/D18	ASTM D1622
01/D19	ASTM D2126

**Related Material Properties**

01/V04	ASTM E96
--------	----------

**Strength**

01/S02	ASTM C203
01/S03	ASTM C209 (Sec. 9)
01/S04	ASTM C209 (Sec. 10)
01/S05	ASTM C209 (Sec. 11)
01/S06	ASTM C209 (Sec. 12)
01/S11	ASTM D1621 (Proc. A)

**Thermal Resistance**

01/T06	ASTM C518
--------	-----------

**Acoustical Testing Services**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

08/P03	ASTM C423 (ISO 354)
08/P06	ASTM E90 (ISO 140, Part 3)
08/P10	ANSI S12.31 (ISO 3741)
08/P31	ASTM E336
08/P32	ASTM E1007
08/P37	ASTM E966

**NVLAP LAB CODE 200047-0****National Econ Corporation**

4515 Poplar Avenue, Suite 410  
Memphis, TN 38117  
Contact: Mr. Chester V. Ervin  
Phone: 901-761-5431  
Fax: 901-767-2466

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**NVLAP LAB CODE 200049-0****Intertek Testing Services NA, Inc.**

7435 4th Street North  
Oakdale, MN 55128  
Contact: Mr. Albert Garlatti  
Phone: 612-730-1188  
Fax: 612-730-1282  
E-Mail: agarlatti@itsqs.com  
URL: <http://www.worldlab.com>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 200050-0****Cooper Lighting - Metalux Research Laboratories**

1101 Southerfield Road  
P.O. Box 1207  
Americus, GA 31709-1207  
Contact: Mr. Gregory B. Bacon  
Phone: 770-486-4579  
Fax: 770-486-4599

URL: <http://www.cooperlighting.com/metalux/>

**Energy Efficient Lighting Products**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Luminaires (Lighting Fixtures)**

22/F04	IES LM-41
--------	-----------

NVLAP LAB CODE 200051-0

**Analytical Environmental Services International, Inc.**

Coll Y Toste 50, St. 3A  
Hato Rey, PR 00918  
Contact: Mr. Ady Padan  
Phone: 787-753-3431  
Fax: 787-281-6669  
E-Mail: YOTA1@MSN.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 200052-0

**Dell Regulatory Test Laboratories**

One Dell Way  
Round Rock, TX 78682  
Contact: Mr. David Staggs  
Phone: 512-728-3751  
Fax: 512-728-3653  
E-Mail: David\_Staggs@us.dell.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code	Designation
------	-------------

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51	AS/NZS 3548
--------	-------------

*Federal Communications Commission (FCC) Methods*

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**Acoustical Testing Services**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code	Designation
------	-------------

08/P24	ANSI S12.10 (ISO 7779)
08/P40	ISO 9296
08/P41	ECMA 74
08/P42	ECMA 109

NVLAP LAB CODE 200053-0

**MagneTek (Lexington) Engineering Laboratory**

669 Natchez Trace Drive  
Lexington, TN 38351-4198  
Contact: Mr. Hugh Fesmire  
Phone: 901-968-4274 x429  
Fax: 901-968-4164  
E-Mail: hugh\_fesmire@magnetek.com

**Efficiency of Electric Motors**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code	Designation
------	-------------

24/M01	IEEE 112, Method B
--------	--------------------

NVLAP LAB CODE 200054-0

**Micro Analytical Laboratories, Inc.**

1786 - 18th Street, Suite A  
San Francisco, CA 94107-2343  
Contact: Mr. Frank Raviola  
Phone: 510-653-0824  
Fax: 510-653-1361  
E-Mail: microlab@labmicro.com  
URL: <http://www.labmicro.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 200055-0

**Celestica International Inc.**

844 Don Mill Road  
North York, Ontario M3C 1V7  
CANADA  
Contact: Mr. Kenneth Long  
Phone: 416-448-4937  
Fax: 416-448-4924  
E-Mail: klong@celestica.com  
URL: <http://www.celestica.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code	Designation
------	-------------

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41	TS-001
--------	--------

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T50	AS/NZS 3260
--------	-------------

NVLAP LAB CODE 200056-0

**EMSL Analytical, Inc.**

440 Lawrence Bell Drive, Suite #2  
 Williamsville, NY 14221  
 Contact: Mr. Kenneth J. Najuch  
 Phone: 716-631-5887  
 Fax: 716-631-7693  
 E-Mail: knajuch@aol.com  
 URL: <http://www.emsl.com/>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200057-0

**Curtis-Straus LLC**

527 Great Road  
 Littleton, MA 01460  
 Contact: Mr. Jon D. Curtis  
 Phone: 978-486-8880  
 Fax: 978-486-8828  
 E-Mail: jdc@world.std.com  
 URL: <http://world.stds.com/~csweb>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41 TS-001

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T50 AS/NZS 3260

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital

12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection

12/T01b 68.316 Hearing Aid Compatibility: technical standards

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology

equipment

NVLAP LAB CODE 200058-0

**Compaq Computer Corp. Emissions Control Lab**

M/C 060607  
 P.O. Box 692000  
 Houston, TX 77070-2000  
 Contact: Mr. Steve Ortmann  
 Phone: 281-514-4897  
 Fax: 281-514-8029  
 E-Mail: [Steve.Ortmann@Compaq.Com](mailto:Steve.Ortmann@Compaq.Com)

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

*AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41 TS-001

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T50 AS/NZS 3260

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200059-0

**Northwest EMC, Inc.**

120 South Elliott Road  
 Newberg, OR 97132  
 Contact: Mr. Dean Ghizzone  
 Phone: 503-537-0728  
 Fax: 503-537-0735  
 E-Mail: [dghizzone@nwemc.com](mailto:dghizzone@nwemc.com)

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200061-0****Rhein Tech Laboratories, Inc.**

360 Herndon Parkway, Suite #1400  
Herndon, VA 20170-4824  
Contact: Mr. Bruno Clavier  
Phone: 703-689-0368  
Fax: 703-689-2056  
E-Mail: bclavier@rheintech.com  
URL: <http://www.rheintech.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200062-0****Professional Testing (EMI), Inc.**

1601 FM 1460, Suite B  
Round Rock, TX 78664  
Contact: Mr. Jeffrey A. Lenk  
Phone: 512-244-3371  
Fax: 512-244-1846  
E-Mail: jlenk@ptitest.com  
URL: <http://www.ptitest.com>

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200063-0****Compatible Electronics, Inc.**

2337 Troutdale Drive  
Agoura, CA 91301  
Contact: Mr. Jeff Klingner  
Phone: 818-597-0600  
Fax: 818-597-1187  
E-Mail: jklingner@celectronics.com  
URL: <http://celectronics.com>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**AUSTEL Technical Standards as determined under the  
Telecommunications Act of 1991**

12/T41 TS-001

12/T42 TS-002

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T50 AS/NZS 3260

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

12/T01 Terminal Equipment Network Protection  
Standards, FCC Method - 47 CFR Part 68 -  
Analog and Digital

12/T01a 68.302 (Par. c,d,e,f) Environmental simulation;  
68.304 Leakage current limit.; 68.306  
Hazardous voltage limit.; 68.308 Signal power  
limit.; 68.310 Longitudinal balance limit.;  
68.312 On-hook impedance limit.; 68.314  
Billing protection

12/T01b 68.316 Hearing Aid Compatibility: technical  
standards

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200064-0

**Compliance Engineering Services, Inc. - Taiwan**

1366 Bordeaux Drive  
Sunnyvale, CA 94089-1005  
Contact: Mr. Scott Wang  
Phone: 408-752-8166 x116  
Fax: 408-752-8168

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200065-0

**Compliance Eng. Svcs, Inc., Compliance  
Certification Services**

1366 Bordeaux Drive  
Sunnyvale, CA 94089-1005  
Contact: Mr. Scott Wang  
Phone: 408-752-8166 x116  
Fax: 408-752-8168

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology

equipment

NVLAP LAB CODE 200066-0

**Washington Laboratories, Ltd.**

7560 Lindbergh Drive  
Gaithersburg, MD 20879  
Contact: Mr. Michael F. Violette  
Phone: 301-417-0220  
Fax: 301-417-9069  
E-Mail: mikev@wll.com  
URL: http://www.wll.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

NVLAP LAB CODE 200067-0

**CT&E Environmental Services Inc.**

3491 Kurtz Street  
San Diego, CA 92110  
Contact: Mr. Craig Sobotka  
Phone: 619-222-0544  
Fax: 619-224-7260

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 200068-0

**EMC Compliance Mgmt Group, dba Turntech  
Scientific & Instr., Inc.**

670 National Avenue  
Mountain View, CA 94043-2244  
Contact: Mr. Paul F. Chen  
Phone: 650-988-0900  
Fax: 650-988-6647  
E-Mail: pfchen@emc-turntech.com  
URL: http://www.emc-turntech.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

## INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

### *International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

#### NVLAP LAB CODE 200069-0

### **Elliott Laboratories, Inc.**

684 West Maude Avenue  
Sunnyvale, CA 94086-3518  
Contact: Mr. Thomas H. Parker  
Phone: 408-245-7800 x236  
Fax: 408-245-3499  
E-Mail: tparker@elliottlabs.com  
URL: <http://www.elliottlabs.com>

### **FCC Test Methods**

Accreditation Valid Through: September 30, 1999

#### NVLAP

Code Designation

### *AUSTEL Technical Standards as determined under the Telecommunications Act of 1991*

12/T41 TS-001

### *Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T50 AS/NZS 3260

12/T51 AS/NZS 3548

### *Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

### *International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

#### NVLAP LAB CODE 200070-0

### **EMC Kashima Corporation**

1614 Mushihata, Omigawa-machi  
Katori-gun,  
Chiba-ken 289-0341  
JAPAN

Contact: Mr. Masaru Nakayama

Phone: 478-82-0963

Fax: 478-82-3373

E-Mail: [emc@emc-kashima.co.jp](mailto:emc@emc-kashima.co.jp)

### **FCC Test Methods**

Accreditation Valid Through: June 30, 1999

#### NVLAP

Code Designation

### *Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

### *Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

### *International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

#### NVLAP LAB CODE 200071-0

### **Apple Computer, Inc., EMC Compliance Laboratory**

1 Infinite Loop, Mailstop 26-A  
Cupertino, CA 95014-2084  
Contact: Mr. Robert Steinfeld  
Phone: 408-974-2618  
Fax: 408-862-5061  
E-Mail: [steinfel@apple.com](mailto:steinfel@apple.com)

### **FCC Test Methods**

Accreditation Valid Through: September 30, 1999

#### NVLAP

Code Designation

### *Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

### *Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

### *International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

#### NVLAP LAB CODE 200074-0

### **Product Safety Engineering, Inc.**

12955 Bellamy Brothers Blvd.  
Dade City, FL 33525-7908  
Contact: Mr. Dale E. Burns  
Phone: 813-989-2360  
Fax: 813-989-2373  
E-Mail: [dburns@pseinc.com](mailto:dburns@pseinc.com)  
URL: <http://www.pseinc.com>



**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

12/T01 Terminal Equipment Network Protection  
Standards, FCC Method - 47 CFR Part 68 -  
Analog and Digital

12/T01a 68.302 (Par. c,d,e,f) Environmental simulation;  
68.304 Leakage current limit.; 68.306  
Hazardous voltage limit.; 68.308 Signal power  
limit.; 68.310 Longitudinal balance limit.;  
68.312 On-hook impedance limit.; 68.314  
Billing protection

12/T01b 68.316 Hearing Aid Compatibility: technical  
standards

**International Special Committee on Radio Interference**

**(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200076-0**

**Instrument Specialties Co., Inc.**

P.O. Box 650, Shielding Way  
Delaware Water Gap, PA 18327-0136

Contact: Mr. J. Fred Gardner

Phone: 717-424-8510

Fax: 717-421-4227

E-Mail: fred\_gardner@instrumentspecialties.com

URL: <http://www.instrumentspecialties.com>

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**NVLAP LAB CODE 200077-0**

**Taiwan Tokin EMC Eng. Corp.**

9th Fl., No. 38, Fushing N. Rd.

Taipei

TAIWAN

Contact: Mr. Steven Chang

Phone: 886-2-26092415

Fax: 886-2-26099303

E-Mail: ttemc@tpts1.seed.net.tw

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference**

**(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200078-0**

**Compaq Computer Corp. EMC Test Facility**

301 Rockrimmon Blvd. South

Colorado Springs, CO 80919-2398

Contact: Mr. Dennis Laurence

Phone: 719-548-2080

Fax: 719-548-2070

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions



NVLAP LAB CODE 200079-0

**Sporton International, Inc.**

6F, No. 106, Sec. 1, Hsin Tai Wu Road  
Hsi Chih  
Taipei Hsien  
TAIWAN  
Contact: Mr. W. L. Huang  
Phone: 886-2-2696-2468  
Fax: 886-2-2696-2255

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200080-0

**Continental Envirotech, Inc.**

646 West Broadway Road, Suite 401  
Mesa, AZ 85210-1212  
Contact: Mr. Stephen P. Kovac  
Phone: 602-844-1710  
Fax: 602-844-1752

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 200081-0

**Advanced Energy, Industrial Energy Laboratory**

909 Capability Drive, #2100  
Raleigh, NC 27606-3870  
Contact: Mr. Jeffrey L. Farlow  
Phone: 919-857-9013  
Fax: 919-832-2696  
E-Mail: jfarlow@aec.ncsu.edu  
URL: <http://www.aec.ncsu.edu>

**Efficiency of Electric Motors**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

24/M01 IEEE 112, Method B

NVLAP LAB CODE 200082-0

**PDE Laboratories**

950 Calle Negocio  
San Clemente, CA 92673-6201  
Contact: Mr. Dave Farrant  
Phone: 949-361-9189  
Fax: 949-361-9597  
E-Mail: [testsvecs@pdelabs.com](mailto:testsvecs@pdelabs.com)

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200083-0

**Testwell Laboratories, Inc./Testwell Industries,  
Inc.**

47 Hudson Street  
Ossining, NY 10562  
Contact: Mr. V. Reddy Kancharla  
Phone: 914-762-9000  
Fax: 914-762-9638

URL: <http://www.testwellcraig.com>

**Construction Materials Testing**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Admixtures*

02/A35 ASTM C233

*Aggregates*

02/A03 ASTM C29

02/A04 ASTM C40

02/A06 ASTM C88

02/A07 ASTM C117

02/A09 ASTM C127

02/A10 ASTM C128

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

02/A11	ASTM C131
02/A12	ASTM C136
02/A13	ASTM C142
02/A15	ASTM D75
02/A44	ASTM C566
02/A46	ASTM C535
<b>Cement</b>	
02/A17	ASTM C109
02/A18	ASTM C114
02/A21	ASTM C157
02/A22	ASTM C183
02/A26	ASTM C191
02/A31	ASTM C305
<b>Concrete</b>	
02/A01	ASTM C39
02/A02	ASTM C617
02/A40	ASTM C78
02/A41	ASTM C192
02/A43	ASTM C1064
02/A45	ASTM C42
02/A48	ASTM C856
02/G01	ASTM C31/C172/C143/C138/C231
<b>Soil and Rock</b>	
02/L02	ASTM D422
02/L04	ASTM D698
02/L05	ASTM D854
02/L06	ASTM D1140
02/L07	ASTM D1556
02/L08	ASTM D1557
02/L13	ASTM D2216
02/L16	ASTM D2487
02/L17	ASTM D2488
02/L20	ASTM D4318
02/L23	ASTM D2922
02/L24	ASTM D2974
02/L25	ASTM D3017
<b>Standard Practices</b>	
02/A38	ASTM E329
02/A39	ASTM C1077
<b>Steel Materials</b>	
02/S01	ASTM A370 (Sec. 5-13)/E8
02/S07	ASTM E709
02/S08	ASTM E165

## Bulk Asbestos Analysis (PLM)

Accreditation Valid Through: June 30, 1999

## Airborne Asbestos Analysis (TEM)

Accreditation Valid Through: June 30, 1999

## NVLAP LAB CODE 200084-0

### Windermere Info. Tech. Sys.

### Military/Commercial Compliance Lab.

401 Defense Highway

Annapolis, MD 21401

Contact: Mr. Douglas G. Frazee

Phone: 410-266-1793

Fax: 410-266-1751

E-Mail: dfrazee@windermeregroup.com

URL: <http://www.windermeregroup.com/mcl/index.html>

### FCC Test Methods

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

### Australian Standards referred to by clauses in AUSTEL Technical Standards

12/T51 AS/NZS 3548

### Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

### International Special Committee on Radio Interference (CISPR) Methods

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

## NVLAP LAB CODE 200085-0

### Global EMC Standard Tech. Corp.

No. 3, Pau-Tou-Tsuo Valley

Chia-Pau Tsuen, Lin Kou Hsiang

Taipei County

TAIWAN

Contact: Mr. Raymond Chang

Phone: 886-2-26035321

Fax: 886-2-26035325

E-Mail: [GESTEK@MS5.HINET.NET](mailto:GESTEK@MS5.HINET.NET)

### FCC Test Methods

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

### Australian Standards referred to by clauses in AUSTEL Technical Standards

12/T51 AS/NZS 3548

### Federal Communications Commission (FCC) Methods

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200086-0

**Radiation Technology, Inc.**

424 Roberson Lane  
San Jose, CA 95112  
Contact: Mr. John Howard  
Phone: 408-441-6077  
Fax: 408-441-6078  
E-Mail: RADEMI@AOL

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200087-0

**Rogers Labs, Inc.**

4405 W. 259th Terrace  
Louisburg, KS 66053  
Contact: Mr. Scot D. Rogers  
Phone: 913-837-3214  
Fax: 913-837-3214  
E-Mail: rogerslb@sound.net

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200088-0

**Toshiba/Houston Test Laboratory**

13131 W. Little York Road  
Houston, TX 77041-5807  
Contact: Mr. Willard Gray  
Phone: 713-466-0277  
Fax: 713-466-8773

**Efficiency of Electric Motors**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

24/M01 IEEE 112, Method B

NVLAP LAB CODE 200089-0

**Electronic Compliance Laboratories, Inc.**

1249 Birchwood Drive  
Sunnyvale, CA 94089  
Contact: Mr. Chris Byleckie  
Phone: 408-747-1490  
Fax: 408-747-1495  
E-Mail: chris@eclabs.com  
URL: <http://www.eclabs.com>

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****NVLAP LAB CODE 200090-0****ProScience Analytical Services, Inc.**

22 Cummings Park  
Woburn, MA 01801-2122  
Contact: Mr. Adrian Stanca  
Phone: 781-935-3212  
Fax: 781-932-4857  
E-Mail: PASI96@aol.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: December 31, 1999

**NVLAP LAB CODE 200091-0****IBM Rochester EMC Lab**

3605 North Highway 52, Department 515  
Rochester, MN 55901-7829  
Contact: Mr. John S. Maas  
Phone: 507-253-2426  
Fax: 507-253-1317  
E-Mail: johnmaas@us.ibm.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

*Code      Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200092-0****EMCE Engineering, Inc.**

44366 South Grimmer Boulevard  
Fremont, CA 94538-6385  
Contact: Mr. Stephen A. Sawyer  
Phone: 510-490-4307  
Fax: 510-490-3441  
E-Mail: EMCEEngrg@aolcom

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

*Code      Designation*

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

12/T01 Terminal Equipment Network Protection  
Standards, FCC Method - 47 CFR Part 68 -  
Analog and Digital

12/T01a 68.302 (Par. c,d,e,f) Environmental simulation;  
68.304 Leakage current limit.; 68.306  
Hazardous voltage limit.; 68.308 Signal power  
limit.; 68.310 Longitudinal balance limit.;  
68.312 On-hook impedance limit.; 68.314  
Billing protection

12/T01b 68.316 Hearing Aid Compatibility: technical  
standards

12/T01c 68.302 Environmental simulation (Par. a,b)

**NVLAP LAB CODE 200093-0****UltraTech Engineering Labs Inc.**

33-4181 Sladeview Crescent  
Mississauga, Ontario L5L 5R2  
CANADA  
Contact: Mr. Victor Kee  
Phone: 905-569-2550  
Fax: 905-569-2480  
E-Mail: vkh.ultratech@sympatico.ca

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

*Code      Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions



*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200094-0

**EMC International, Inc.**

762 Park Avenue  
Youngsville, NC 27596  
Contact: Mr. Dale S. Albright  
Phone: 919-554-0901  
Fax: 919-556-2043  
E-Mail: emcamerica@aol.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200095-0

**Chopra-Lee, Inc.**

1815 Love Road  
P.O. Box 567  
Grand Island, NY 14072-0567  
Contact: Mr. Paul S. Chopra  
Phone: 716-773-7625  
Fax: 716-773-7624  
E-Mail: pschopra@msn.com  
URL: <http://www.chopra-lee-inc.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 200096-0

**Key Tronic Corp.**

4424 N. Sullivan Road  
P.O. Box 14687  
Spokane, WA 99214-0687  
Contact: Mr. Robert E. Schwartz  
Phone: 509-927-5274  
Fax: 509-927-5258  
E-Mail: bschwart@keytronic.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200097-0

**PEP Testing Laboratory**

12-3 FL. No. 27-1, Lane 169, Kang Ning St  
Hsi-Chi  
Taipei Hsien  
TAIWAN  
Contact: Mr. Peter Kao  
Phone: 886-2-2692-2097  
Fax: 886-2-2695-6236  
E-Mail: peplab@top2.ficnet.net.tw

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200098-0**

**Northern Telecom BVW Lab**

250 Sidney Street  
Belleville, Ontario K8N5B7  
CANADA  
Contact: Mrs. Seham Fawzy  
Phone: 613-966-0100 x3145  
Fax: 613-967-5364

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200099-0**

**Spectrum Research & Testing Laboratory, Inc.**

No. 101-10, Ling 8, Shan-Tong Li  
Chung-Li, Taoyuan  
TAIWAN  
Contact: Mr. Cheng-Yang Ho  
Phone: 011-886-3-4987684  
Fax: 011-886-3-4986528  
E-Mail: info@srtlab.com  
URL: http://www.srtlab.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz

to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200101-0**

**Fountain Compliance Laboratory**

50 Randolph Road  
Somerset, NJ 08873-1240  
Contact: Mr. Wei Li  
Phone: 732-560-9010  
Fax: 732-560-9173  
E-Mail: lee@ftn.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200102-0**

**Advance Data Technology Corporation**

No. 47, 14 Ling, Chia Pau Tsuen,  
Lin Kou Hsiang  
Taipei Hsien  
TAIWAN  
Contact: Mr. Harris W. Lai  
Phone: 886-2-6032180  
Fax: 886-2-6022943  
E-Mail: harris@mail.adt.com.tw

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

- 12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
 12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
 12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

- 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200103-0

**Hayes Microcomputer Products, Inc.**

P.O. Box 105203  
 Atlanta, GA 30348-5203  
 Contact: Mr. Bill Mason  
 Phone: 770-840-9200  
 Fax: 770-447-0178

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

- 12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

- 12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
 12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
 12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

- 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200104-0

**Asbestos TEM Laboratories, Inc.**

952 Greg Street  
 Sparks, NV 89431  
 Contact: Mr. R. Mark Bailey  
 Phone: 510-528-0108  
 Fax: 510-528-0109  
 E-Mail: MBaileyASB@aol.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 200107-0

**Toshiba Corp., Ome Works**

2-9 Suehiro-cho  
 Ome Tokyo 198-8710  
 JAPAN  
 Contact: Mr. N. Tsumura  
 Phone: 81-428-33-1170  
 Fax: 81-428-30-7911

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

- 12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

- 12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
 12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
 12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

- 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200109-0

**A-Pex International Co., Ltd. Yokowa Laboratory**

108 Yokowa-cho, Ise-shi  
 Mie-ken 516-1106  
 JAPAN  
 Contact: Mr. Michihisa Yamazaki  
 Phone: 81-596-24-6717  
 Fax: 81-596-27-5631  
 E-Mail: yamazaki@a-pex.co.jp  
 URL: http://www.a-pex.co.jp

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

- 12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

- 12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
 12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
 12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

- 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance



# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

characteristics of information technology equipment	
NVLAP LAB CODE 200111-0	
<b>TUV Rheinland of North America, Inc.</b>	
12 Commerce Road Newtown, CT 06470-1607 Contact: Mr. Timothy M. Dwyer Phone: 203-426-0888 x104 Fax: 203-270-8883	
URL: <a href="http://www.us.tuv.com">http://www.us.tuv.com</a>	
<b>FCC Test Methods</b>	
Accreditation Valid Through: June 30, 1999	
NVLAP	
Code	Designation
<i>Australian Standards referred to by clauses in AUSTEL Technical Standards</i>	
12/T51	AS/NZS 3548
<i>Federal Communications Commission (FCC) Methods</i>	
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200112-0	
<b>IBM Austin EMC</b>	
11400 Burnet Road, M.S. 4469 Austin, TX 78758-3493 Contact: Mr. Jerry W. Scibielski Phone: 512-838-5816 Fax: 512-838-7101 E-Mail: <a href="mailto:scib@us.ibm.com">scib@us.ibm.com</a>	
<b>FCC Test Methods</b>	
Accreditation Valid Through: December 31, 1999	
NVLAP	
Code	Designation
<i>Australian Standards referred to by clauses in AUSTEL Technical Standards</i>	
12/T51	AS/NZS 3548
<i>Federal Communications Commission (FCC) Methods</i>	
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance

characteristics of information technology equipment	
NVLAP LAB CODE 200114-0	
<b>Cisco Systems, Inc.</b>	
170 West Tasman Drive San Jose, CA 95134-1706 Contact: Mr. Andrew Griffin Phone: 408-527-1810 Fax: 408-526-4184 E-Mail: <a href="mailto:agriffin@cisco.com">agriffin@cisco.com</a>	
<b>FCC Test Methods</b>	
Accreditation Valid Through: March 31, 1999	
NVLAP	
Code	Designation
<i>Australian Standards referred to by clauses in AUSTEL Technical Standards</i>	
12/T51	AS/NZS 3548
<i>Federal Communications Commission (FCC) Methods</i>	
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200116-0	
<b>Nemko EESI, Inc.</b>	
11696 Sorrento Valley Road, Suite F San Diego, CA 92121 Contact: Mr. Harry H. Hodes Phone: 619-259-4952 Fax: 619-259-7170 E-Mail: <a href="mailto:techops@eesi.com">techops@eesi.com</a> URL: <a href="http://www.eesi.com">http://www.eesi.com</a>	
<b>FCC Test Methods</b>	
Accreditation Valid Through: December 31, 1999	
NVLAP	
Code	Designation
<i>Australian Standards referred to by clauses in AUSTEL Technical Standards</i>	
12/T51	AS/NZS 3548
<i>Federal Communications Commission (FCC) Methods</i>	
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance



characteristics of information technology  
equipment

NVLAP LAB CODE 200117-0

**Universal Compliance Laboratories**

775 B Mabury Road  
San Jose, CA 95133  
Contact: Mr. Bob Cole  
Phone: 408-453-8744  
Fax: 408-453-8747  
E-Mail: bob\_ucl@msn.com  
URL: http://www.usl1.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

*International Special Committee on Radio Interference*

**(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200118-0

**Electronic Research & Service Organization/ITRI**

K500 Bldg 17, 195 Sec. 4  
Chung Hsing Road, Chutung  
Hsinchu  
TAIWAN  
Contact: Mr. Paul Y. Liao  
Phone: 886-3-591-5994  
Fax: 886-3-582-7520  
E-Mail: PYLA@erso.itri.org.tw

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200119-0

**Garwood Laboratories, Inc.**

565 Porter Way  
Placentia, CA 92870-6454  
Contact: Mr. Robert Lynch  
Phone: 714-572-2027  
Fax: 714-572-2025  
E-Mail: bobl.garwoodtestlabs.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz  
12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

**(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200120-0

**Chemitox EMC Research, Inc.**

14979, Egusa, Sudama-cho, Kitakoma-gun  
Yamanashi-ken 408-01  
JAPAN  
Contact: Mr. Kohichi Nakayama  
Phone: 81-551-42-4411  
Fax: 81-551-20-6002

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

***International Special Committee on Radio Interference******(CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200121-0****Cabletron Systems, Inc.**

35 Industrial Way  
P.O. Box 5005  
Rochester, NH 03867-5005  
Contact: Mr. John Ballew  
Phone: 603-337-1742  
Fax: 603-337-1764  
E-Mail: jballew@cmailpc.ctrn.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

***NVLAP***

*Code      Designation*

***Australian Standards referred to by clauses in AUSTEL******Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions

***International Special Committee on Radio Interference******(CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200122-0****LambdaMetrics, Inc.**

407 South Blue Ridge Parkway (78613)  
P.O. Box 1029  
Cedar Park, TX 78630-1029  
Contact: Mr. Ben Bibb  
Phone: 512-219-8218  
Fax: 512-219-8218  
E-Mail: bennbibb@lambdametrics.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

***NVLAP***

*Code      Designation*

***Australian Standards referred to by clauses in AUSTEL******Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz

to 30 MHz  
12/F01b Radiated Emissions  
12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital  
12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection

***International Special Committee on Radio Interference******(CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200124-0****White Environmental Consultants Inc.**

731 I Street, Suite 201  
Anchorage, AK 99501  
Contact: Mr. Sean Fitzgerald  
Phone: 907-258-8661  
Fax: 907-258-8662  
E-Mail: Whiteenv@customcpu.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

**NVLAP LAB CODE 200125-0****Paradyne Corporation**

8545 126th Avenue N.  
P.O. Box 2826  
Largo, FL 33773-2826  
Contact: Mr. Tom Wissman  
Phone: 727-530-2775  
Fax: 727-532-5552  
E-Mail: twissman@eng.paradyne.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

***NVLAP***

*Code      Designation*

***Australian Standards referred to by clauses in AUSTEL******Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200126-0**

**Walker Bolt Manufacturing Co.**

10202 Airline Drive  
P.O. Box 38502  
Houston, TX 77238-8502  
Contact: Mr. Tommie D. Helms  
Phone: 281-448-4350 x230  
Fax: 281-999-1979

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

**Chemical Analysis**

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

**Dimensional Inspection**

*Dimensions of ISO grade A and B fasteners*

FA/487 DIN 267, Part 5

*Dimensions of ISO grade C fasteners*

FA/488 DIN 267, Part 5

*Dimensions of general purpose fasteners and  
high-volume machine assembly fasteners*

FA/403 ANSI/ASME B18.18.1M

FA/486 MIL-STD-120 (W/ Notice dtd 9 SEP 63)

*Dimensions of special purpose fasteners and fasteners for  
highly specialized engineered ap*

FA/405 ANSI/ASME B18.18.3M

FA/406 ANSI/ASME B18.18.4M

FA/493 MIL-STD-120 (W/ Notice dtd 9SEP 63)

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

FA/380 FED-STD-H28/20

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

FA/382 FED-STD-H28/20

*External thread parameters - system 23*

FA/385 ANSI/ASME B1.3M

FA/386 FED-STD-H28/20

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

FA/392 FED-STD-H28/20

*Internal thread parameters - system 22*

FA/393 ANSI/ASME B1.3M

FA/394 FED-STD-H28/20

*Internal thread parameters - system 23*

FA/397 ANSI/ASME B1.3M

FA/398 FED-STD-H28/20

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/265 ASTM A370 Sec. A3.2.1.4

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/267 ASTM F606M Sec. 3.4.1-3.4.3

FA/273 SAE J429

*Brinell hardness of fasteners*

FA/185 ASTM A370 Sec. 16

FA/186 ASTM E10

FA/491 ASTM E18

*Charpy impact (v-notch) testing*

FA/211 ASTM A370 Sec. 19-28

FA/212 ASTM E23

*Hardness preparation*

FA/464 ASTM F606M

FA/482 ASTM F606

*Microhardness of fasteners*

FA/189 ASTM E384

*Proof load of full-size externally threaded fasteners*

FA/225 ASTM A370 Sec. A3.2.1.1-A3.2.1.3

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/228 ISO 898-1 Sec. 8.4

FA/229 SAE J429 Sec. 5.3

FA/467 ASTM F606M Sec. 3.2.1-3.2.3

*Proof load of internally threaded fasteners (nuts)*

FA/235 ASTM A370 Sec. A3.5.1

FA/236 ASTM F606 Sec. 4.2

FA/237 ASTM F606M Sec. 4.2

FA/239 ISO 898-2 Sec. 8.1

FA/241 SAE J995 Sec. 5.1

*Rockwell hardness of fasteners*

FA/196 ASTM A370 Sec. 18

FA/197 ASTM E18

FA/201 MIL-STD-1312-6

*Tension testing of machined specimens from externally  
threaded fasteners*

FA/278 ASTM A370

FA/279 ASTM F606

FA/280 ASTM F606M

FA/282 ISO 898-1

FA/283 SAE J429

*Total extension at fracture of externally threaded  
fasteners*

FA/285 ASTM F606

FA/286 ASTM F606M

*Vickers hardness - test forces from 9.807 to 1176 N (1 to  
120 kgf)*

FA/492 ASTM E92

*Wedge tensile strength of full-size threaded fasteners*

FA/289 ASTM A370

FA/290 ASTM F606 Sec. 3.5

FA/291 ASTM F606M Sec. 3.5

FA/294 ISO 898-1 Sec. 8.5

FA/468 SAE J429 Sec. 5.5

**Metallography**



*Decarburization and case depth measurement in fasteners*

FA/324 ISO 898-1  
FA/328 SAE J121  
FA/483 ASTM A574 Sec. 12

*Macroscopic examination of fasteners by etching*

FA/484 ASTM E381

*Nondestructive Inspection*

*Liquid penetrant inspection of fasteners*

FA/367 ASTM E165  
FA/370 MIL-STD-271  
FA/371 MIL-STD-6866

*Magnetic particle inspection of fasteners*

FA/376 MIL-STD-271  
FA/485 ASTM E1444

NVLAP LAB CODE 200128-0

**The Perryman Company**

213 Vandale Drive  
Houston, PA 15342  
Contact: Ms. Shirley J. Kemper  
Phone: 724-746-9390  
Fax: 724-746-9392

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Chemical Analysis*

*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FA/472 ASTM E1447

*Dimensional Inspection*

*Surface texture*

FA/554 AMS 4928

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/530 ASTM E8

*Double shear of externally threaded fasteners*

FA/257 MIL-STD-1312-13

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Metallography*

*Determination of grain size of fasteners*

FA/331 ASTM E112  
FA/550 ASTM E3

*Macroscopic examination of fasteners by etching*

FA/551 ASTM E3

*Microscopic examination of fasteners by etching*

FA/512 ASTM E407  
FA/552 ASTM E3  
FA/553 AMS 2643

NVLAP LAB CODE 200129-0

**AHD**

92723 M-152  
Dowagiac, MI 49047  
Contact: Mr. Edmund (Ted) Chaffee  
Phone: 616-424-7014

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200130-0

**NASA-Lewis Research Center**

21000 Brookpark Road, Mail Stop 6-4  
Cleveland, OH 44135-3191  
Contact: Ms. Priscilla Mobley  
Phone: 216-433-8333  
Fax: 216-433-8719  
E-Mail: priscilla.a.mobley@lerc.nasa.gov

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 200131-0

**Environmental Testing and Monitoring Services, Inc.**

2425 Boward Parkway, Suite 107  
Virginia Beach, VA 23454  
Contact: Mr. Scott J. Eggleston  
Phone: 757-498-7873  
Fax: 757-498-7896

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999



**NVLAP LAB CODE 200132-0**

**USG Research-Systems Evaluation Laboratory**

700 N. Highway 45  
Libertyville, IL 60048-1296  
Contact: Mr. Richard T. Kaczowski  
Phone: 847-970-52559  
Fax: 847-362-4871  
E-Mail: rkaczowski@isgres.com

**Acoustical Testing Services**

Accreditation Valid Through: June 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
08/P03	ASTM C423 (ISO 354)
08/P06	ASTM E90 (ISO 140, Part 3)
08/P33	ASTM E1111
08/P34	ASTM E1414 (AMA-1-II-67)(ISO 140, Part 9)

**NVLAP LAB CODE 200133-0**

**Electronics Testing Center, Taiwan**

No.8, Lane 29, Wen-Ming Rd  
Lo-Shan Tsun, Kui-shan Hsiang  
Taoyuan Hsien 333  
TAIWAN  
Contact: Mr. Jing-Jung Hong  
Phone: 886-03-328-0026 x272  
Fax: 886-03-328-0034  
E-Mail: hong@etc.org.tw

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
12/T51	AS/NZS 3548
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

*Federal Communications Commission (FCC) Methods*

*International Special Committee on Radio Interference (CISPR) Methods*

**NVLAP LAB CODE 200134-0**

**Marathon Electric - Wausau Engineering Lab.**

100 East Randolph Street  
P.O. Box 8003  
Wausau, WI 54402-8003  
Contact: Mr. Gene Sickler  
Phone: 715-675-3311 x4155  
Fax: 715-675-8043

**Efficiency of Electric Motors**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
24/M01	IEEE 112, Method B

**NVLAP LAB CODE 200135-0**

**AST Research, Inc. EMC Lab.**

16225 Alton Parkway  
Irvine, CA 92618-3618  
Contact: Mr. Jozef Baran  
Phone: 949-727-7654  
Fax: 949-727-8329

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
12/T51	AS/NZS 3548
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

*Federal Communications Commission (FCC) Methods*

*International Special Committee on Radio Interference (CISPR) Methods*

**NVLAP LAB CODE 200136-0**

**Wilson-Garner Company**

40935 Production Drive  
Harrison Township, MI 48045-3422  
Contact: Mr. Timothy Pinchback  
Phone: 810-466-5800  
Fax: 810-465-4408

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

*NVLAP**Code      Designation***Dimensional Inspection****Dimensions of fasteners - flange screw heads and flange nuts**

FA/419      ANSI/ASME B18.2.3.4M

FA/420      ANSI/ASME B18.2.3.9M

**Dimensions of fasteners - straightness**

FA/423      ANSI/ASME B18.2.1

FA/755      ANSI B18.2.3.1M

**Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap**

FA/405      ANSI/ASME B18.18.3M

FA/406      ANSI/ASME B18.18.4M

**External thread parameters - system 21**

FA/379      ANSI/ASME B1.3M

**External thread parameters - system 22**

FA/381      ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection****Adhesion of metallic coatings on fasteners**

FA/143      ASTM B571

FA/145      SAE J207

**Axial tensile strength of full-size threaded fasteners**

FA/266      ASTM F606 Sec. 3.4.1-3.4.3

FA/267      ASTM F606M Sec. 3.4.1-3.4.3

FA/271      MIL-STD-1312-8

FA/273      SAE J429

FA/274      SAE J1216

**Hydrogen embrittlement (stress durability) of externally threaded fasteners**

FA/176      MIL-STD-1312-5

**Measurement of fastener coating thickness - dimensional change method**

FA/495      MIL-STD-1312-12

**Measurement of fastener coating thickness - magnetic methods**

FA/155      ASTM E376

FA/159      MIL-STD-1312-12

**Proof load of full-size externally threaded fasteners**

FA/226      ASTM F606 Sec. 3.2.1-3.2.3

FA/229      SAE J429 Sec. 5.3

FA/230      SAE J1216 Sec. 3.3

FA/467      ASTM F606M Sec. 3.2.1-3.2.3

**Rockwell hardness of fasteners**

FA/197      ASTM E18

FA/201      MIL-STD-1312-6

**Rockwell superficial hardness of fasteners**

FA/205      ASTM E18

FA/209      MIL-STD-1312-6

**Wedge tensile strength of full-size threaded fasteners**

FA/289      ASTM A370

FA/290      ASTM F606 Sec. 3.5

FA/291      ASTM F606M Sec. 3.5

FA/295      MIL-STD-1312-8

FA/468      SAE J429 Sec. 5.5

FA/469      SAE J1216 Sec. 3.6

**Nondestructive Inspection****Magnetic particle inspection of fasteners**

FA/485      ASTM E1444

---

**NVLAP LAB CODE 200137-0****Philips Electronics Industries (TAIWAN) Ltd.**

5, Tze Chiang 1 Road, Chungli Ind. Park

P.O. Box 123, Chungli

Chungli, Taoyuan

TAIWAN

Contact: Mr. Ronnie Yang

Phone: 886-2-454-9862

Fax: 886-3-454-9887

E-Mail: ronnie.yang@tw.ccmil.philips.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP**Code      Designation***Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51      AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01      FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b      Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22      IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200138-0****Hewlett Packard, Product Test Lab, San Diego**

16399 W. Bernardo Drive

San Diego, CA 92127-1899

Contact: Mr. John Hall

Phone: 619-655-8236

Fax: 619-655-5786

E-Mail: john\_hall@HP.com

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP**Code      Designation***Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51      AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01      FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz to 30 MHz

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

12/F01b Radiated Emissions  
*International Special Committee on Radio Interference (CISPR) Methods*  
12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200139-0

**PB Fasteners**

1700 W. 132nd Street  
P.O. Box 1157  
Gardena, CA 90249-0157  
Contact: Mr. Verne Benson  
Phone: 310-323-6222  
Fax: 310-329-4685

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Dimensional Inspection**

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/539	SAE AS 870
FA/540	MIL-STD-33787

**External thread parameters - system 21**

FA/379	ANSI/ASME B1.3M
FA/380	FED-STD-H28/20
FA/528	MIL-S-7742
FA/533	SAE AS 8879

**External thread parameters - system 22**

FA/381	ANSI/ASME B1.3M
FA/382	FED-STD-H28/20
FA/383	MIL-S-7742
FA/534	SAE AS 8879

**External thread parameters - system 23**

FA/385	ANSI/ASME B1.3M
FA/386	FED-STD-H28/20
FA/388	MIL-S-8879
FA/535	SAE AS 8879

**Internal thread parameters - system 21**

FA/391	ANSI/ASME B1.3M
FA/392	FED-STD-H28/20
FA/529	MIL-S-7742
FA/536	SAE AS 8879

**Internal thread parameters - system 22**

FA/393	ANSI/ASME B1.3M
FA/394	FED-STD-H28/20
FA/395	MIL-S-7742
FA/537	SAE AS 8879

**Internal thread parameters - system 23**

FA/397	ANSI/ASME B1.3M
FA/398	FED-STD-H28/20
FA/399	MIL-S-7742
FA/538	SAE AS 8879

**Surface texture**

FA/439	ANSI/ASME B46.1
--------	-----------------

**Mechanical and Physical Testing and Inspection****Adhesion of metallic coatings on fasteners**

FA/532	BMS 10-85M Sec. 8.2
--------	---------------------

**Axial tensile strength of full-size threaded fasteners**

FA/271	MIL-STD-1312-8
--------	----------------

**Double shear of externally threaded fasteners**

FA/257	MIL-STD-1312-13
--------	-----------------

**Fatigue of full-size threaded fasteners**

FA/183	MIL-STD-1312-11
--------	-----------------

**Hydrogen embrittlement (stress durability) of externally threaded fasteners**

FA/176	MIL-STD-1312-5
--------	----------------

**Magnetic permeability**

FA/215	MIL-I-17214
--------	-------------

**Measurement of fastener coating thickness - eddy-current method**

FA/150	FED TM STD NO. 151 Method 520.1
--------	---------------------------------

FA/152	MIL-STD-1312-12
--------	-----------------

**Microhardness of fasteners**

FA/189	ASTM E384
--------	-----------

FA/193	MIL-STD-1312-6
--------	----------------

**Permanent set test of self-locking nuts**

FA/109	MIL-N-25027
--------	-------------

**Recess strength test in both the installation and removal directions**

FA/476	MIL-STD-1312-25
--------	-----------------

**Reusability test of self-locking internally threaded fasteners**

FA/522	MIL-STD-1312-31
--------	-----------------

**Rockwell hardness of fasteners**

FA/201	MIL-STD-1312-6
--------	----------------

**Rockwell superficial hardness of fasteners**

FA/209	MIL-STD-1312-6
--------	----------------

**Salt spray testing of fasteners**

FA/166	ASTM B117
--------	-----------

FA/168	MIL-STD-1312-1
--------	----------------

**Single shear of externally threaded fasteners**

FA/256	MIL-STD-1312-20
--------	-----------------

**Stress rupture of fasteners**

FA/262	MIL-STD-1312-10
--------	-----------------

**Tension testing of machined specimens from externally threaded fasteners**

FA/475	ASTM E8
--------	---------

FA/526	MIL-STD-1312-8
--------	----------------

**Test for embrittlement of metallic coated externally threaded fasteners**

FA/525	MIL-STD-1312-5
--------	----------------

**Torque-out test**

FA/523	MIL-STD-1312-31
--------	-----------------

**Wedge tensile strength of full-size threaded fasteners**

FA/295	MIL-STD-1312-8
--------	----------------

**Wrench torque test of externally wrenching nuts of spline and hexagon and double hexagon (1**

FA/524	MIL-STD-1312-31
--------	-----------------



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued*****Yield strength of full-size externally threaded fasteners***

FA/303 MIL-STD-1312-8

***Metallography******Decarburization and case depth measurement in fasteners***

FA/521 ASTM E384

***Determination of grain size of fasteners***

FA/331 ASTM E112

***Macroscopic examination of fasteners by etching***

FA/511 ASTM E340

***Microscopic examination of fasteners by etching***

FA/512 ASTM E407

***Nondestructive Inspection******Liquid penetrant inspection of fasteners***

FA/527 ASTM E1417

***Magnetic particle inspection of fasteners***

FA/485 ASTM E1444

**NVLAP LAB CODE 200140-0****TAO/TA2 EMC Laboratory**

255, JEN-HO Road Sec 2, Tachi

Taoyuan

TAIWAN

Contact: Mr. Steve Wang

Phone: 886-3-390-0000

Fax: 886-3-389-4346

E-Mail: Steve.Wang@digital.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

***Australian Standards referred to by clauses in AUSTEL******Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

***International Special Committee on Radio Interference  
(CISPR) Methods***12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment**NVLAP LAB CODE 200141-0****MAC Fasteners, Inc.**

1544 S. Main Street

Ottawa, KS 66067

Contact: Mr. Donald C. Krenkel

Phone: 785-242-8812

Fax: 785-242-4616

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

***Dimensional Inspection******External thread parameters - system 21***

FA/380 FED-STD-H28/20

***External thread parameters - system 22***

FA/382 FED-STD-H28/20

***Mechanical and Physical Testing and Inspection******Adhesion of metallic coatings on fasteners***

FA/541 QQ-P-416 Sec. 4.6.2

***Axial tensile strength of full-size threaded fasteners***

FA/799 NASM 1312-8

***Double shear of externally threaded fasteners***

FA/880 NASM 1312-13

***Intergranular corrosion susceptibility in austenitic  
stainless steel fasteners - nitric aci***

FA/173 ASTM A262 Sec. 15-21, Practice C

***Measurement of fastener coating thickness - dimensional  
change method***

FA/874 NASM 1312-12

***Measurement of fastener coating thickness -  
microscopical method***

FA/873 NASM 1312-12

***Microhardness of fasteners***

FA/877 NASM 1312-6

***Recess strength test in both the installation and removal  
directions***

FA/886 NASM 1312-25

***Rockwell hardness of fasteners***

FA/878 NASM 1312-6

***Rockwell superficial hardness of fasteners***

FB/1004 NASM 1312-6

***Metallography******Decarburization and case depth measurement in  
fasteners***

FA/521 ASTM E384

***Determination of grain size of fasteners***

FA/331 ASTM E112

***Macroscopic examination of fasteners by etching***

FA/511 ASTM E340

***Microscopic examination of fasteners by etching***

FA/512 ASTM E407

***Nondestructive Inspection***



*Liquid penetrant inspection of fasteners*

FA/371 MIL-STD-6866

*Magnetic particle inspection of fasteners*

FA/485 ASTM E1444

NVLAP LAB CODE 200142-0

**Lockheed Martin Control Systems EMI**

**Laboratory**

600 Main Street

Johnson City, NY 13790-1888

Contact: Mr. Paul Heiland

Phone: 607-770-3771

Fax: 607-770-2954

E-Mail: paul.h.heiland.jr@lmco.co

**MIL-STD-462 Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

**Conducted Emissions:**

12/A01 MIL-STD-462 Method CE01

12/A06 MIL-STD-462 Method CE03

12/A12 MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01 MIL-STD-462 Method CS01

12/B02 MIL-STD-462 Method CS02

12/B05 MIL-STD-462 Method CS06

**Radiated Emissions:**

12/D01 MIL-STD-462 Method RE01

12/D02 MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E02 MIL-STD-462 Method RS02

12/E04 MIL-STD-462 Method RS03 employing

RADHAZ procedures for high level testing

(Consult laboratory for field strengths

available)

NVLAP LAB CODE 200143-0

**Ivaco Rolling Mills, Chemistry Laboratory**

Highway 17, P.O. Box 322

L'Orignal Ontario K0B 1K0

CANADA

Contact: Mr. William V. Berry

Phone: 613-675-4671 x237

Fax: 613-675-2463

E-Mail: wberry@ivacorm.com

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

*NVLAP*

Code Designation

**Chemical Analysis**

*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FA/455 ASTM E1019

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

NVLAP LAB CODE 200144-0

**Dexter Fastener Technologies, Inc.**

2110 Bishop Circle E.

Dexter, MI 48130

Contact: Mr. Ken Summersett

Phone: 734-426-5200

Fax: 734-425-5870

E-Mail: dextech@midspring.com

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

**Chemical Analysis**

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

**Dimensional Inspection**

*Dimensions of ISO grade A and B fasteners*

FA/407 ISO 3269

FA/589 JIS B1071

FA/590 JIS B1091

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/404 ANSI/ASME B18.18.2M

*Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap*

FA/406 ANSI/ASME B18.18.4M

*External thread parameters - ISO*

FA/390 ISO 1502

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

FA/583 JIS B0251

FA/584 JIS B0252

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*External thread parameters - system 23*

FA/385 ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/270 ISO 898-1 Sec. 8.2

FA/273 SAE J429

FA/574 JIS B1051 Sec. 4.2.2

*Fatigue of full-size threaded fasteners*

FA/182 ISO 3800-1

FA/183 MIL-STD-1312-11

FA/570 JIS B1081

*Hardness preparation*

FA/482 ASTM F606

*Head soundness testing*

FA/614 ISO 898-1 Sec. 8.7

FA/615 JIS B1051 Sec. 4.2.6

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

**Measurement of fastener coating thickness - coulometric method**

FA/567 ASTM B504

**Measurement of fastener coating thickness - microscopical method**

FA/160 ASTM B487

**Microhardness of fasteners**

FA/189 ASTM E384

FA/191 ISO 6507-2

**Proof load of full-size externally threaded fasteners**

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/228 ISO 898-1 Sec. 8.4

FA/229 SAE J429 Sec. 5.3

FA/573 JIS B1051 Sec. 4.2.4

**Rockwell hardness of fasteners**

FA/197 ASTM E18

FA/200 ISO 6508

FA/572 JIS Z2245

FA/616 JIS B1051 Sec. 4.3

FA/617 ISO 898-1 Sec. 8.9

**Rockwell superficial hardness of fasteners**

FA/205 ASTM E18

**Salt spray testing of fasteners**

FA/166 ASTM B117

FA/568 ISO 9227

FA/569 JIS Z2371

**Tension testing of machined specimens from externally threaded fasteners**

FA/279 ASTM F606 Sec. 3.6

FA/282 ISO 898-1

FA/283 SAE J429

FA/580 ISO 6892

FA/581 JIS B1051 Sec. 4.2

FA/582 JIS Z2241

**Torque-tension of full-size threaded fasteners**

FA/576 JIS B1084

**Total extension at fracture of externally threaded fasteners**

FA/285 ASTM F606 Sec. 3.7

**Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)**

FA/571 JIS Z2244

**Wedge tensile strength of full-size threaded fasteners**

FA/290 ASTM F606 Sec. 3.5

FA/294 ISO 898-1 Sec. 8.5

FA/468 SAE J429 Sec. 5.5

FA/575 JIS B1051 Sec. 4.2.3

**Yield strength of full-size externally threaded fasteners**

FA/298 ASTM F606 Sec. 3.2.4

**Metallography****Decarburization and case depth measurement in fasteners**

FA/323 ASTM E1077

**Determination of grain size of fasteners**

FA/331 ASTM E112

**Macroscopic examination of fasteners by etching**

FA/511 ASTM E340

**Microscopic examination of fasteners by etching**

FA/512 ASTM E407

**Surface discontinuities of externally threaded fasteners**

FA/357 ASTM F788/788M

FA/359 ISO 6157-1

---

**NVLAP LAB CODE 200145-0****Neutron Engineering Inc.**

1Fl. No. 20, Alley 50, Lane 119

Dong Hwu Road, P.O. Box 6-158 Nei Hwu

Taipei

TAIWAN

Contact: Mr. George Yao

Phone: 886-2-26336872

Fax: 886-2-26334578

E-Mail: neutron1@msl0.hinet.net

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200147-0****Electro Magnetic Test, Inc.**

1547 Plymouth Street

Mountain View, CA 94043

Contact: Mr. Jay Gandhi

Phone: 650-965-4000

Fax: 650-965-3000

**FCC Test Methods**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

12/F01b	Radiated Emissions
12/T01	Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital
12/T01a	68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection
12/T01b	68.316 Hearing Aid Compatibility: technical standards
12/T01c	68.302 Environmental simulation (Par. a,b)
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200148-0****BarTech Inc. - Chemical Laboratory**

1001 Main Street, Gate #3  
Johnstown, PA 15909  
Contact: Mr. Alan K. O'Donnell  
Phone: 814-533-7333  
Fax: 814-533-7319  
E-Mail: alanod@porodigy.net

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code      Designation

**Chemical Analysis**

*Combustion analysis for carbon, sulfur, oxygen,  
nitrogen, and hydrogen*

FA/455      ASTM E1019

*Optical emission spectrochemical analysis*

FA/457      ASTM E415

*Solution chemical analysis*

FA/448      ASTM E350

FA/531      ASTM E663

**NVLAP LAB CODE 200150-0****Indiana Automotive Fasteners, Inc.**

1300 West Anderson Boulevard  
Greenfield, IN 46140-2777  
Contact: Mr. Pete Murray  
Phone: 317-467-0100  
Fax: 317-467-0400

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code      Designation

**Dimensional Inspection*****Dimensions of general purpose fasteners and  
high-volume machine assembly fasteners***

FA/607      JIS B1071

FA/675      JIS B1012

***Mechanical and Physical Testing and Inspection******Adhesion of metallic coatings on fasteners***

FA/595      JIS H8504

***Axial tensile strength of full-size threaded fasteners***

FA/267      ASTM F606M Sec. 3.4.1-3.4.3

FA/270      ISO 898-1 Sec. 8.2

FA/273      SAE J429

FA/574      JIS B1051 Sec. 4.2.2

FA/687      ISO 6892

***Hardness preparation***

FA/464      ASTM F606M

***Measurement of fastener coating thickness - eddy-current  
method***

FA/618      JIS H8501

***Measurement of fastener coating thickness - weight of  
coating***

FA/619      JIS H8501

***Rockwell hardness of fasteners***

FA/197      ASTM E18

FA/200      ISO 6508

FA/572      JIS Z2245

FA/616      JIS B1051 Sec. 4.3

FA/617      ISO 898-1 Sec. 8.9

FB/1011      P&W E-O Supp C

***Salt spray testing of fasteners***

FA/166      ASTM B117

FA/598      JIS H8502

***Vickers hardness - test forces from 9.807 to 1176 N (1 to  
120 kgf)***

FA/492      ASTM E92

FA/571      JIS Z2244

FA/643      JIS B1051 Sec. 4.2.5

FA/658      ISO 6507-1

***Wedge tensile strength of full-size threaded fasteners***

FA/291      ASTM F606M Sec. 3.5

FA/294      ISO 898-1 Sec. 8.5

FA/575      JIS B1051 Sec. 4.2.3

FA/685      JIS D4604 Sec. 7.7(1)

FA/688      ISO 6892

***Metallography******Decarburization and case depth measurement in  
fasteners***

FA/324      ISO 898-1

FA/329      SAE J419

FA/645      JIS B1051

FA/656      ASTM F606M



# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

**NVLAP LAB CODE 200151-0**

**Cosmos Corporation**  
319 Akeno, Obata-cho  
Watarai-gun Mie 519-0501  
JAPAN  
Contact: Mr. Kay Hamaguchi  
Phone: 81-596-37-0190  
Fax: 81-596-37-3609  
E-Mail: cosmos@mint.or.jp

## FCC Test Methods

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code      Designation*

*Australian Standards referred to by clauses in AUSTEL*

## Technical Standards

12/T51      AS/NZS 3548

## Federal Communications Commission (FCC) Methods

12/F01      FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b      Radiated Emissions

## International Special Committee on Radio Interference

## (CISPR) Methods

12/CIS22      IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

## NVLAP LAB CODE 200152-0

## InFocus Systems, Inc.

27700B SE Parkway Avenue

Wilsonville, OR 97070-9215

Contact: Mr. Don Rhodes

Phone: 503-685-8588

Fax: 503-685-8531

E-Mail: don.rhode@infocus.com

## FCC Test Methods

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code      Designation*

*Australian Standards referred to by clauses in AUSTEL*

## Technical Standards

12/T51      AS/NZS 3548

## Federal Communications Commission (FCC) Methods

12/F01      FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b      Radiated Emissions

## International Special Committee on Radio Interference

## (CISPR) Methods

12/CIS22      IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology

## equipment

## NVLAP LAB CODE 200153-0

## MacLean Fasteners - QC Laboratory

1000 Allanson Road

Mundelein, IL 60060

Contact: Ms. Charlotte Kotowski

Phone: 847-566-0010 x253

Fax: 847-949-0285

## Fasteners & Metals

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code      Designation*

## Dimensional Inspection

## Dimensions of ISO grade A and B fasteners

FA/408      ISO 4759-1

## Dimensions of ISO grade C fasteners

FA/410      ISO 4759-1

## Dimensions of fasteners - bearing surface squareness

FA/746      ASME/ANSI B18.2.2

FA/950      ANSI/ASME B18.2.4.2M

## Dimensions of fasteners - flange screw heads and flange nuts

FA/422      ANSI/ASME B18.16.3M

FA/949      ANSI/ASME B18.2.2

## Dimensions of fasteners - gaging for slotted nuts

FA/417      ANSI/ASME B18.2.2

FA/418      ANSI/ASME B18.2.4.3M

## Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets

FA/843      ASME/ANSI B18.2.2

FA/945      ANSI B18.2.4.1M

## Internal thread parameters - ISO

FA/402      ISO 1502

FA/948      ANSI/ASME B1.16M

## Internal thread parameters - system 21

FA/942      ANSI/ASME B1.2

FA/946      ANSI/ASME B1.16M

## Internal thread parameters - system 22

FA/943      ANSI/ASME B1.2

FA/947      ANSI/ASME B1.16M

## Mechanical and Physical Testing and Inspection

## Cone proof load of internally threaded fasteners (nuts)

FA/221      ASTM F606M Sec. 4.3

FA/951      SAE J995

## Hardness preparation

FA/464      ASTM F606M

## Measurement of fastener coating thickness - magnetic methods

FA/155      ASTM E376

## Prevailing torque

FA/217      IFI-100/107

FA/218      ISO 2320

## Proof load of full-size externally threaded fasteners

FA/229      SAE J429 Sec. 5.3



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

FA/230 SAE J1216 Sec. 3.3  
FA/467 ASTM F606M Sec. 3.2.1-3.2.3  
*Proof load of internally threaded fasteners (nuts)*

FA/237 ASTM F606M Sec. 4.2  
FA/241 SAE J995 Sec. 5.1  
FA/242 SAE J1216 Sec. 4.2

**Rockwell hardness of fasteners**

FA/197 ASTM E18  
FA/200 ISO 6508  
FA/202 SAE J417

**Rockwell superficial hardness of fasteners**

FA/205 ASTM E18  
FA/208 ISO 1024  
FA/210 SAE J417

**Torque-tension of full-size threaded fasteners**

FA/306 IFI-101  
FA/308 SAE J174  
FA/944 ISO 2320

**Metallography****Decarburization and case depth measurement in fasteners**

FA/323 ASTM E1077  
FA/329 SAE J419  
FA/330 SAE J423

**Microscopic examination of fasteners by etching**

FA/512 ASTM E407  
FA/552 ASTM E3

**Surface discontinuities of internally threaded fasteners**

FA/364 ASTM F812M  
FA/703 SAE J122

**NVLAP LAB CODE 200155-0****Thomas Lighting Accent Division Photometric Laboratory**

6430 East Slauson Avenue  
Los Angeles, CA 90040  
Contact: Mr. William Mercado  
Phone: 213-726-1800 x245  
Fax: 213-724-1310

**Energy Efficient Lighting Products**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Luminaires (Lighting Fixtures)**

22/F04	IES LM-41
22/F05	IES LM-46

**NVLAP LAB CODE 200157-0****Seiko Epson Corporation**

80 Harashinden Hirooka  
Shiojiri-City Nagano 399-0785  
JAPAN  
Contact: Mr. Atsushi Shinozaki  
Phone: 81 263-52-5094  
Fax: 81 263-54-5806  
E-Mail: atsushi.shinozaki@exc.epson.co.jp

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
--------	---

12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
---------	---

12/F01b	Radiated Emissions
---------	--------------------

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 200158-0****San Shing Hardware Works Co., Ltd. Test Laboratory**

No. 851 Chung Shan Rd. Nan-Shing Kui-Jen  
Tainan  
TAIWAN  
Contact: Mr. Jackson Chen  
Phone: 886-6-2306611 x311  
Fax: 886-6-2306000

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Dimensional Inspection****Dimensions of fasteners - flange screw heads and flange nuts**

FA/566	IFI D21 p. D21
--------	----------------

**Dimensions of fasteners - gaging for slotted nuts**

FA/417	ANSI/ASME B18.2.2
--------	-------------------

**Internal thread parameters - ISO**

FA/953	ANSI/ASME B18.2.2
--------	-------------------

**Internal thread parameters - system 21**

FA/391	ANSI/ASME B1.3M
--------	-----------------

FA/942	ANSI/ASME B1.2
--------	----------------

*Internal thread parameters - system 22*

FA/393 ANSI/ASME B1.3M  
FA/943 ANSI/ASME B1.2

*Mechanical and Physical Testing and Inspection*

*Clamp load test*

FA/558 ISO 2320  
FA/559 DIN 267, Part 15  
FA/560 IFI-100/107

*Cone proof load of internally threaded fasteners (nuts)*

FA/220 ASTM F606 Sec. 4.3  
FA/221 ASTM F606M Sec. 4.3

*Measurement of fastener coating thickness - X-ray methods*

FA/556 ASTM B568

*Measurement of fastener coating thickness - weight of coating*

FA/164 ASTM A90

*Microhardness of fasteners*

FA/189 ASTM E384

*Prevailing torque*

FA/217 IFI-100/107  
FA/218 ISO 2320  
FA/557 DIN 267, Part 15

*Proof load of internally threaded fasteners (nuts)*

FA/236 ASTM F606 Sec. 4.2  
FA/237 ASTM F606M Sec. 4.2  
FA/239 ISO 898-2 Sec. 8.1  
FA/241 SAE J995 Sec. 5.1

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Torque-tension of full-size threaded fasteners*

FA/306 IFI-101

*Total extension at fracture of externally threaded fasteners*

FA/285 ASTM F606 Sec. 3.7  
FA/286 ASTM F606M Sec. 3.7

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/492 ASTM E92

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/323 ASTM E1077  
FA/561 ASTM E3  
FA/562 ASTM G79

*Surface discontinuities of internally threaded fasteners*

FA/865 ASTM F812/F812M

NVLAP LAB CODE 200161-0

**Robbins Manufacturing Co., Inc.**

1200 Airport Road  
P.O. Box 704/750  
Fall River, MA 02722  
Contact: Mr. Robert J. Laborio  
Phone: 508-675-2555  
Fax: 508-677-0494

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Dimensional Inspection*

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/494 ANSI B18.2.1

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

*Internal thread parameters - system 22*

FA/393 ANSI/ASME B1.3M

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

*Magnetic permeability*

FA/214 ASTM A342 Test Method 3

*Proof load of full-size externally threaded fasteners*

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

*Proof load of internally threaded fasteners (nuts)*

FA/236 ASTM F606 Sec. 4.2

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Tension testing of machined specimens from externally threaded fasteners*

FA/279 ASTM F606

*Total extension at fracture of externally threaded fasteners*

FA/285 ASTM F606

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/483 ASTM A574 Sec. 12

*Nondestructive Inspection*

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Liquid penetrant inspection of fasteners**

FA/367 ASTM E165  
FA/370 MIL-STD-271

**NVLAP LAB CODE 200162-0****United States Technologies, Inc.**

3505 Francis Circle  
Alpharetta, GA 30201-2989  
Contact: Mr. Tim Johnson  
Phone: 770-740-0717  
Fax: 770-740-1508  
E-Mail: tjohnson.UStech@mindspring.com  
URL: <http://www.ustech-lab.com>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200163-0****Ricoh Company, Ltd. Ohmori EMC Center**

3-6, Naka-magome 1-Chome Ohta-ku  
Tokyo 143-8555  
JAPAN  
Contact: Mr. Akio Niki  
Phone: 81-3-3776-6281  
Fax: 81-3-3777-8317  
E-Mail: [akio.niki@nts.ricoh.co.jp](mailto:akio.niki@nts.ricoh.co.jp)

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200164-0****SPS Technologies; Aerospace Fastener Group**

Highland Avenue  
Jenkintown, PA 19046  
Contact: Mr. Eric G. Hakun  
Phone: 215-572-3716  
Fax: 215-572-3725

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Chemical Analysis****Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen**

FA/625 SPS Q.C.O.I.2.5.134

**Dimensional Inspection****Dimensions of fasteners - bearing surface squareness**

FA/633 MIL-N-25027

**Dimensions of fasteners - gaging for slotted nuts**

FA/632 MIL-N-25027

**Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets**

FA/411 ANSI/ASME B18.3

FA/540 MIL-STD-33787

FA/634 MIL-STD-21132

FA/635 SAE AS 870

**Dimensions of fasteners - straightness**

FA/423 ANSI/ASME B18.2.1

**Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

FA/403 ANSI/ASME B18.18.1M

**Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap**

FA/405 ANSI/ASME B18.18.3M

FA/406 ANSI/ASME B18.18.4M

**External thread parameters - system 21**

FA/379 ANSI/ASME B1.3M

FA/380 FED-STD-H28/20

FA/628 MIL-S-8879

**External thread parameters - system 22**

FA/381 ANSI/ASME B1.3M

FA/382 FED-STD-H28/20

FA/384 MIL-S-8879

**External thread parameters - system 23**

FA/385 ANSI/ASME B1.3M

FA/386 FED-STD-H28/20

FA/388 MIL-S-8879



# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

## Internal thread parameters - system 21

FA/391 ANSI/ASME B1.3M  
FA/392 FED-STD-H28/20  
FA/629 MIL-S-8879

## Internal thread parameters - system 22

FA/393 ANSI/ASME B1.3M  
FA/394 FED-STD-H28/20  
FA/396 MIL-S-8879

## Internal thread parameters - system 23

FA/397 ANSI/ASME B1.3M  
FA/398 FED-STD-H28/20  
FA/400 MIL-S-8879

## Surface texture

FA/439 ANSI/ASME B46.1

## Mechanical and Physical Testing and Inspection

### Adhesion of metallic coatings on fasteners

FA/143 ASTM B571

### Axial tensile strength of full-size threaded fasteners

FA/265 ASTM A370 Sec. A3.2.1.4  
FA/266 ASTM F606 Sec. 3.4.1-3.4.3  
FA/271 MIL-STD-1312-8

### Charpy impact (v-notch) testing

FA/212 ASTM E23

### Compression load of compressible-washer-type direct tension indicators

FA/639 SPS-J-610

### Cone proof load of internally threaded fasteners (nuts)

FA/220 ASTM F606 Sec. 4.3

### Copper sulfate test - test for free iron on the surface of corrosion resistant fasteners

FA/636 MIL-STD-753

### Double shear of externally threaded fasteners

FA/257 MIL-STD-1312-13

### Elevated temperature testing capability

FA/505 MIL-STD-1312-18  
FA/546 ASTM E21  
FA/627 MIL-STD-1312-28

### Fatigue of full-size threaded fasteners

FA/183 MIL-STD-1312-11  
FA/184 NAS 1069

### Flareability test of clinch and shank nuts

FA/626 SPS Q.C.O.1.2.5.134

### Hardness preparation

FA/482 ASTM F606

### Humidity testing of fasteners

FA/169 MIL-STD-753 Test Method 101  
FA/170 QQ-P-35  
FA/473 MIL-STD-1312-3

### Hydrogen embrittlement (stress durability) of externally threaded fasteners

FA/176 MIL-STD-1312-5

### Hydrogen embrittlement (stress durability) of internally threaded fasteners

FA/178 MIL-STD-1312-14

### Intergranular corrosion susceptibility of austenitic stainless steel fasteners - oxalic acid

FA/174 ASTM A262 Sec. 3-7, Practice A

## Magnetic permeability

FA/214 ASTM A342 Test Method 3

### Measurement of fastener coating thickness - X-ray methods

FA/556 ASTM B568

### Measurement of fastener coating thickness - dimensional change method

FA/495 MIL-STD-1312-12

### Measurement of fastener coating thickness - eddy-current method

FA/148 ASTM B244

FA/152 MIL-STD-1312-12

### Measurement of fastener coating thickness - magnetic methods

FA/153 ASTM B499

FA/159 MIL-STD-1312-12

### Measurement of fastener coating thickness - microscopical method

FA/160 ASTM B487

FA/163 MIL-STD-1312-12

### Measurement of fastener coating thickness - weight of coating

FA/165 MIL-STD-1312-12

### Microhardness of fasteners

FA/189 ASTM E384

FA/193 MIL-STD-1312-6

### Permanent set test of self-locking nuts

FA/109 MIL-N-25027

### Prevailing torque

FA/630 MIL-N-25027

### Proof load of full-size externally threaded fasteners

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

### Proof load of internally threaded fasteners (nuts)

FA/236 ASTM F606 Sec. 4.2

### Recess strength test in both the installation and removal directions

FA/476 MIL-STD-1312-25

### Reusability test of self-locking internally threaded fasteners

FA/124 MIL-N-25027

FA/522 MIL-STD-1312-31

### Rockwell hardness of fasteners

FA/197 ASTM E18

FA/201 MIL-STD-1312-6

### Rockwell superficial hardness of fasteners

FA/205 ASTM E18

FA/209 MIL-STD-1312-6

### Salt spray testing of fasteners

FA/166 ASTM B117

FA/168 MIL-STD-1312-1

### Single shear of externally threaded fasteners

FA/255 ASTM F606

FA/256 MIL-STD-1312-20

### Stress corrosion of fasteners

FA/172 MIL-STD-1312-9

### Stress rupture of fasteners

FA/260 ASTM E139

FA/261 ASTM E292



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

FA/262 MIL-STD-1312-10

*Tension testing of machined specimens from externally threaded fasteners*

FA/278 ASTM A370

FA/279 ASTM F606 Sec. 3.6

FA/475 ASTM E8

*Test for embrittlement of metallic coated externally threaded fasteners*

FA/179 ASTM F606 Sec. 7

FA/525 MIL-STD-1312-5

*Torque-out test*

FA/133 MIL-N-25027

FA/523 MIL-STD-1312-31

*Torque-tension of full-size threaded fasteners*

FA/307 MIL-STD-1312-15

*Vibration of full-size threaded fasteners*

FA/311 MIL-STD-1312-7

FA/631 MIL-N-25027

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/492 ASTM E92

*Wedge tensile strength of full-size threaded fasteners*

FA/289 ASTM A370

FA/290 ASTM F606 Sec. 3.5

*Wrench torque test of externally wrenching nuts of spline and hexagon and double hexagon (1*

FA/141 MIL-N-25027

FA/524 MIL-STD-1312-31

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

FA/299 ASTM A370 Sec. A3.2.1.3(a)

**Metallography***Decarburization and case depth measurement in fasteners*

FA/323 ASTM E1077

*Determination of grain size of fasteners*

FA/638 ASTM E112

*Macroscopic examination of fasteners by etching*

FA/511 ASTM E340

*Microscopic examination of fasteners by etching*

FA/512 ASTM E407

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788/788M

*Surface discontinuities of internally threaded fasteners*

FA/363 ASTM F812

**Nondestructive Inspection***Liquid penetrant inspection of fasteners*

FA/371 MIL-STD-6866

FA/527 ASTM E1417

*Magnetic particle inspection of fasteners*

FA/485 ASTM E1444

**NVLAP LAB CODE 200165-0****Metropolitan Environmental Testing Services dba METS Laboratories**

179 Smallwood Village Center

Waldorf, MD 20602

Contact: Ms. Robin Grey

Phone: 301-870-1995

Fax: 301-870-1701

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**NVLAP LAB CODE 200166-0****O & K Company Limited, Osaka Test Center**

8-81, Nakajima 2-Chome, Nishiyodogawa-Ku

Osaka-Shi

JAPAN

Contact: Mr. Norio Shiga

Phone: 06-471-0110

Fax: 06-472-0554

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

NVLAP

Code Designation

**Chemical Analysis***Optical emission spectrochemical analysis*

FA/457 ASTM E415

**NVLAP LAB CODE 200167-0****Bay Area Compliance Laboratory, Corp.**

230 Commercial Street, Suite 2

Sunnyvale, CA 94086

Contact: Mr. John Y. Chan

Phone: 408-732-9162

Fax: 408-732-9164

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL**Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

characteristics of information technology  
equipment

---

**NVLAP LAB CODE 200168-0**

**Portland Bolt and Manufacturing Company, Inc.**  
**Testing Laboratory**  
3441 N.W. Guam Street  
P.O. Box 2866  
Portland, OR 97208-2866  
Contact: Mr. Dan Herboth  
Phone: 503-227-5488  
Fax: 503-227-4634

## Fasteners & Metals

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code      Designation*

## Mechanical and Physical Testing and Inspection

### Axial tensile strength of full-size threaded fasteners

FA/266      ASTM F606 Sec. 3.4.1-3.4.3

FA/273      SAE J429

### Proof load of full-size externally threaded fasteners

FA/226      ASTM F606 Sec. 3.2.1-3.2.3

FA/229      SAE J429 Sec. 5.3

### Rockwell hardness of fasteners

FA/197      ASTM E18

### Rotational capacity of full-size fasteners

FA/245      ASTM A563

### Tension testing of machined specimens from externally threaded fasteners

FA/279      ASTM F606 Sec. 3.6

FA/283      SAE J429

### Wedge tensile strength of full-size threaded fasteners

FA/290      ASTM F606 Sec. 3.5

FA/468      SAE J429 Sec. 5.5

## NVLAP LAB CODE 200169-0

## Kobelco Research Institute, Inc. Stock Company

2 Nadahama-Higashimachi, Nada-ku  
Kobe 657-0863

JAPAN

Contact: Mr. Morifumi Nakamura

Phone: 81-78-882-8058

Fax: 81-78-882-8211

## Fasteners & Metals

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code      Designation*

## Chemical Analysis

### Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen

FA/586      JIS G1211

FA/587      JIS G1215

## Optical emission spectrochemical analysis

FA/588      JIS G1253

## Solution chemical analysis

FA/585      JIS G1258

## NVLAP LAB CODE 200171-0

## Leland-Powell Fasteners, Inc. Fastener Testing Laboratory

Highway 45 South

P.O. Box 260

Martin, TN 38237

Contact: Mr. Jason Danner

Phone: 901-587-3106

Fax: 901-587-9613

E-Mail: jason@lpf.net

## Fasteners & Metals

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code      Designation*

## Dimensional Inspection

### Dimensions of fasteners - straightness

FA/754      IFI 138

### Dimensions of general purpose fasteners and high-volume machine assembly fasteners

FA/404      ANSI/ASME B18.18.2M

### Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap

FA/405      ANSI/ASME B18.18.3M

### External thread parameters - system 22

FA/381      ANSI/ASME B1.3M

## Mechanical and Physical Testing and Inspection

### Axial tensile strength of full-size threaded fasteners

FA/273      SAE J429

FA/752      SAE J82

### Drive test

FA/248      SAE J81

FA/750      SAE J933

### Ductility test of thread rolling and self-drilling tappings screws

FA/250      SAE J81

### Hydrogen embrittlement (stress durability) of externally threaded fasteners

FA/709      SAE J81 Sec. 3.9

### Measurement of fastener coating thickness - eddy-current method

FA/149      ASTM E376

### Proof load of full-size externally threaded fasteners

FA/229      SAE J429 Sec. 5.3

### Rockwell hardness of fasteners

FA/202      SAE J417

### Rockwell superficial hardness of fasteners

FA/210      SAE J417

### Torsional strength test of thread rolling and self-drilling tappings screws

FA/254      SAE J81

FA/751      SAE J933

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Wedge tensile strength of full-size threaded fasteners**

FA/468 SAE J429 Sec. 5.5  
FA/753 SAE J82

**NVLAP LAB CODE 200172-0****Rockford Engineering Services, Inc.**

2100 Calaveras Road  
P.O. Box 543  
Sunol, CA 94586-0543  
Contact: Mr. Michael Gbadebo  
Phone: 510-862-2944  
Fax: 510-862-9013  
E-Mail: mike@rockfordengr.com  
URL: http://www.resemc.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions  
12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital  
12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection  
12/T01b 68.316 Hearing Aid Compatibility: technical standards  
12/T01c 68.302 Environmental simulation (Par. a,b)  
**International Special Committee on Radio Interference (CISPR) Methods**  
12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200173-0****Fuserashi Gunma**

870 Kamieda, Nitta-Cho, Nitta-Gun  
Gunma-Ken 370-03  
JAPAN  
Contact: Mr. Takeo Okada  
Phone: 06-789-7121  
Fax: 06-781-1734

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Dimensional Inspection****Dimensions of ISO grade A and B fasteners**

FA/608 JIS B1181

**Dimensions of ISO grade C fasteners**

FA/609 JIS B1181

**Dimensions of fasteners - flange screw heads and flange nuts**

FA/610 JIS B1190

**Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

FA/607 JIS B1071

**External thread parameters - ISO**

FA/624 JIS B0252

**Internal thread parameters - ISO**

FA/605 JIS B0251

FA/606 JIS B0252

**Mechanical and Physical Testing and Inspection****Adhesion of metallic coatings on fasteners**

FA/595 JIS H8504

**CASS test (copper-accelerated acetic acid-salt spray test) of fasteners**

FA/599 JIS H8502

**Measurement of fastener coating thickness - coulometric method**

FA/597 JIS H8501

**Measurement of fastener coating thickness - magnetic methods**

FA/596 JIS H8501

**Prevailing torque**

FA/600 JIS B1056

**Proof load of full-size externally threaded fasteners**

FA/573 JIS B1051 Sec. 4.2.4

**Proof load of internally threaded fasteners (nuts)**

FA/601 JIS B1052

**Rockwell hardness of fasteners**

FA/572 JIS Z2245

**Salt spray testing of fasteners**

FA/569 JIS Z2371

FA/598 JIS H8502

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/571 JIS Z2244

**Metallography**

*Macroscopic examination of fasteners by etching*

FA/602 JIS G0553

*Surface discontinuities of externally threaded fasteners*

FA/603 JIS B1043

*Surface discontinuities of internally threaded fasteners*

FA/604 JIS B1042

**NVLAP LAB CODE 200174-0**

**Training Research Co., Ltd.**

No. 571, 5F, Chung Shiao E. Rd., Sec. 7

P.O. Box No. 4-18, Nang Kang

Taipei

TAIWAN

Contact: Mr. Frank Tsai

Phone: 886-2-2788-1332

Fax: 886-2-2785-7408

E-Mail: a9493666@ms21.hinet.net

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200175-0**

**Ohtama Co., Ltd. Yamanashi EMC Test Site**

1661 Oshuku Asigawa Higashi-Yatsushiro

Yamanashi

JAPAN

Contact: Mr. Etsuji Nogami

Phone: 81-552-98-2141

Fax: 81-552-98-2125

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200177-0**

**Korea Testing & Research Inst. for Chemical Industry-Inchon Off.**

GAJOA 3 DONG 539-8

Inchon 404-253

KOREA

Contact: Mr. Kwang-Yeon Lee

Phone: 82-32-577-6801

Fax: 82-32-575-5613

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**Chemical Analysis**

*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FA/455 ASTM E1019

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

*Solution chemical analysis*

FA/448 ASTM E350

**Dimensional Inspection**

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/486 MIL-STD-120 (W/ Notice dtd 9 SEP 63)

*Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap*

FA/493 MIL-STD-120 (W/ Notice dtd 9SEP 63)

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

*Internal thread parameters - system 22*

FA/393 ANSI/ASME B1.3M



**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/267 ASTM F606M Sec. 3.4.1-3.4.3

*Brinell hardness of fasteners*

FA/186 ASTM E10

*Charpy impact (u-notch) testing*

FA/517 ASTM E23

*Charpy impact (v-notch) testing*

FA/212 ASTM E23

*Cone proof load of internally threaded fasteners (nuts)*

FA/220 ASTM F606 Sec. 4.3

FA/221 ASTM F606M Sec. 4.3

*Measurement of fastener coating thickness - X-ray methods*

FA/760 ASTM A754/A754M

*Measurement of fastener coating thickness - magnetic methods*

FA/153 ASTM B499

*Measurement of fastener coating thickness - weight of coating*

FA/164 ASTM A90

*Microhardness of fasteners*

FA/189 ASTM E384

*Proof load of full-size externally threaded fasteners*

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/467 ASTM F606M Sec. 3.2.1-3.2.3

*Proof load of internally threaded fasteners (nuts)*

FA/236 ASTM F606 Sec. 4.2

FA/237 ASTM F606M Sec. 4.2

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Tension testing of machined specimens from externally threaded fasteners*

FA/279 ASTM F606 Sec. 3.6

FA/280 ASTM F606M Sec. 3.6

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

FA/291 ASTM F606M Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

FA/300 ASTM F606M Sec. 3.2.4

**Metallography**

*Decarburization and case depth measurement in fasteners*

FA/323 ASTM E1077

*Determination of grain size of fasteners*

FA/638 ASTM E112

*Macroscopic examination of fasteners by etching*

FA/511 ASTM E340

*Microscopic examination of fasteners by etching*

FA/512 ASTM E407

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788/788M

*Surface discontinuities of internally threaded fasteners*

FA/865 ASTM F812/F812M

NVLAP LAB CODE 200178-0

**Durkee Testing Laboratories, Inc.**

15700 Texaco Street

P.O. Box 1401

Paramount, CA 90723-1401

Contact: Mr. John A. Durkee

Phone: 562-531-7111

Fax: 562-531-7137

E-Mail: durkee@IBM.net

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

*NVLAP*

Code Designation

**Chemical Analysis**

*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FA/455 ASTM E1019

FA/472 ASTM E1447

FA/513 ASTM E1409

FA/514 ASTM E351 Sec. 37

FA/515 ASTM E352 Sec. 36

FA/516 ASTM E353 Sec. 37

*Energy dispersive X-ray analysis*

FA/500 ASTM E1508

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

FA/458 ASTM E607

FA/459 ASTM E1086

*Spot test analysis*

FA/501 ASTM STP550

**Mechanical and Physical Testing and Inspection**

*Adhesion of metallic coatings on fasteners*

FA/143 ASTM B571

*Axial tensile strength of full-size threaded fasteners*

FA/271 MIL-STD-1312-8

*Bend test of full size eyebolts*

FA/503 ASTM A370 Sec. 14

*Breaking strength of fullsize eyebolts*

FA/508 MIL-STD-1312-8

*Brinell hardness of fasteners*

FA/186 ASTM E10

*CASS test (copper-accelerated acetic acid-salt spray test) of fasteners*

FA/496 ASTM B368

*Charpy impact (u-notch) testing*

FA/517 ASTM E23

*Charpy impact (v-notch) testing*

FA/211 ASTM A370 Sec. 19-28

FA/212 ASTM E23

*Copper sulfate test - test for free iron on the surface of corrosion resistant fasteners*

FA/499 ASTM A380

*Double shear of externally threaded fasteners*

FA/257 MIL-STD-1312-13

*Elevated temperature testing capability*

FA/505 MIL-STD-1312-18

*Fatigue of full-size threaded fasteners*

FA/183 MIL-STD-1312-11

*Humidity testing of fasteners*

FA/473 MIL-STD-1312-3

*Hydrogen embrittlement (stress durability) of externally threaded fasteners*

FA/176 MIL-STD-1312-5

*Hydrogen embrittlement (stress durability) of internally threaded fasteners*

FA/178 MIL-STD-1312-14

*Intergranular corrosion susceptibility in austenitic stainless steel fasteners - nitric acid*

FA/173 ASTM A262 Sec. 15-21, Practice C

FA/504 ASTM G28

*Intergranular corrosion susceptibility of austenitic stainless steel fasteners - oxalic acid*

FA/174 ASTM A262 Sec. 3-7, Practice A

*Lock torque tests*

FA/480 MIL-STD-1312-31

*Measurement of fastener coating thickness - dimensional change method*

FA/495 MIL-STD-1312-12

*Measurement of fastener coating thickness - magnetic methods*

FA/159 MIL-STD-1312-12

*Measurement of fastener coating thickness - microscopical method*

FA/163 MIL-STD-1312-12

*Measurement of fastener coating thickness - weight of coating*

FA/165 MIL-STD-1312-12

*Microhardness of fasteners*

FA/193 MIL-STD-1312-6

*Proof load of full-size externally threaded fasteners*

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

*Proof load of full-size eyebolts*

FA/232 ASTM F541

*Proof load of internally threaded fasteners (nuts)*

FA/236 ASTM F606 Sec. 4.2

*Push out test of floating plate nuts, gang channel nuts, and anchor nuts*

FA/116 MIL-N-25027

*Recess strength test in both the installation and removal directions*

FA/476 MIL-STD-1312-25

*Rockwell hardness of fasteners*

FA/201 MIL-STD-1312-6

*Rockwell superficial hardness of fasteners*

FA/209 MIL-STD-1312-6

*Salt spray testing of fasteners*

FA/166 ASTM B117

FA/168 MIL-STD-1312-1

*Single shear of externally threaded fasteners*

FA/256 MIL-STD-1312-20

*Stress corrosion of fasteners*

FA/172 MIL-STD-1312-9

*Stress rupture of fasteners*

FA/262 MIL-STD-1312-10

*Test for embrittlement of metallic coated externally threaded fasteners*

FA/506 ASTM F519

*Torque-out test*

FA/133 MIL-N-25027

FA/502 MIL-N-45913

*Vibration of full-size threaded fasteners*

FA/311 MIL-STD-1312-7

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/507 ASTM E384

*Water immersion method - test for anodic surface containment on corrosion resistant fastener*

FA/497 ASTM A262

FA/498 ASTM G31

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

FA/510 ASTM E8

*Yield strength of full-size externally threaded fasteners*

FA/593 ASTM E8

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/483 ASTM A574 Sec. 12

FA/520 ASTM F835

*Determination of grain size of fasteners*

FA/331 ASTM E112

*Macroscopic examination of fasteners by etching*

FA/511 ASTM E340

*Microscopic examination of fasteners by etching*

FA/512 ASTM E407

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788

*Surface discontinuities of internally threaded fasteners*

FA/363 ASTM F812

NVLAP LAB CODE 200179-0

**Fastener Innovation Technology, Inc.**

13215 S. Western Avenue

Gardena, CA 90249-9123

Contact: Mr. Jorge W. Molina

Phone: 310-538-1111

Fax: 310-324-7602

E-Mail: JWM@fitfastener.com

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Dimensional Inspection*

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

***Dimensions of fasteners - hexagon and double hexagon******(12 point) and spline sockets***

FA/411 ANSI/ASME B18.3

***External thread parameters - ISO***

FA/594 FED-STD-H28/21

***External thread parameters - system 21***

FA/380 FED-STD-H28/20

***External thread parameters - system 22***

FA/382 FED-STD-H28/20

***External thread parameters - system 23***

FA/386 FED-STD-H28/20

***Surface texture***

FA/439 ANSI/ASME B46.1

***Mechanical and Physical Testing and Inspection******Axial tensile strength of full-size threaded fasteners***

FA/271 MIL-STD-1312-8

FA/530 ASTM E8

***Copper sulfate test - test for free iron on the surface of corrosion resistant fasteners***

FA/499 ASTM A380

***Double shear of externally threaded fasteners***

FA/257 MIL-STD-1312-13

***Elevated temperature testing capability***

FA/505 MIL-STD-1312-18

***Fatigue of full-size threaded fasteners***

FA/183 MIL-STD-1312-11

***Hydrogen embrittlement (stress durability) of externally threaded fasteners***

FA/176 MIL-STD-1312-5

***Magnetic permeability***

FA/215 MIL-I-17214

***Measurement of fastener coating thickness - microscopical method***

FA/591 ASTM E1182

***Microhardness of fasteners***

FA/189 ASTM E384

FA/193 MIL-STD-1312-6

***Proof load of full-size externally threaded fasteners***

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

***Recess strength test in both the installation and removal directions***

FA/476 MIL-STD-1312-25

***Reusability test of self-locking internally threaded fasteners***

FA/124 MIL-N-25027

***Rockwell hardness of fasteners***

FA/201 MIL-STD-1312-6

***Rockwell superficial hardness of fasteners***

FA/209 MIL-STD-1312-6

***Salt spray testing of fasteners***

FA/166 ASTM B117

***Single shear of externally threaded fasteners***

FA/256 MIL-STD-1312-20

***Stress corrosion of fasteners***

FA/172 MIL-STD-1312-9

***Stress rupture of fasteners***

FA/262 MIL-STD-1312-10

***Tension testing of machined specimens from externally threaded fasteners***

FA/475 ASTM E8

FA/526 MIL-STD-1312-8

***Total extension at fracture of externally threaded fasteners***

FA/592 ASTM E8

***Wedge tensile strength of full-size threaded fasteners***

FA/289 ASTM A370

FA/290 ASTM F606 Sec. 3.5

***Wrench torque test of externally wrenching nuts of spline and hexagon and double hexagon (1***

FA/141 MIL-N-25027

***Yield strength of full-size externally threaded fasteners***

FA/593 ASTM E8

***Metallography******Decarburization and case depth measurement in fasteners***

FA/323 ASTM E1077

***Determination of grain size of fasteners***

FA/331 ASTM E112

***Macroscopic examination of fasteners by etching***

FA/511 ASTM E340

***Microscopic examination of fasteners by etching***

FA/512 ASTM E407

***Surface discontinuities of externally threaded fasteners***

FA/357 ASTM F788/788M

***Nondestructive Inspection******Liquid penetrant inspection of fasteners***

FA/371 MIL-STD-6866

FA/527 ASTM E1417

***Magnetic particle inspection of fasteners***

FA/485 ASTM E1444

---

**NVLAP LAB CODE 200180-0****Fuji Component Parts USA, Inc.**

4115 West 54th Street

Indianapolis, IN 46254

Contact: Mr. Steve Egelhoff

Phone: 317-347-4115

Fax: 317-347-4123

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Chemical Analysis****Optical emission spectrochemical analysis**

FA/457 ASTM E415

**Dimensional Inspection****External thread parameters - system 21**

FA/379 ANSI/ASME B1.3M



*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

*Measurement of fastener coating thickness - coulometric method*

FA/567 ASTM B504

*Microhardness of fasteners*

FA/657 ASTM E92

*Proof load of full-size externally threaded fasteners*

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

*Proof load of internally threaded fasteners (nuts)*

FA/236 ASTM F606 Sec. 4.2

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

NVLAP LAB CODE 200181-0

**Topura Co., Ltd.**

201 Soya

Hadano Kanagawa 257-8686

JAPAN

Contact: Mr. Katsuzo Fujihira

Phone: 0463-82-4179

Fax: 0463-82-6169

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

*Dimensional Inspection*

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/607 JIS B1071

FA/675 JIS B1012

FA/682 JASO F116

*External thread parameters - ISO*

FA/676 JIS B1071

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

FA/672 JIS B1054

*Embrittlement test of washers*

FA/673 JIS B1252

*Head soundness testing*

FA/615 JIS B1051 Sec. 4.2.6

*Measurement of fastener coating thickness - eddy-current method*

FA/618 JIS H8501

*Measurement of fastener coating thickness - weight of coating*

FA/619 JIS H8501

*Microhardness of fasteners*

FA/620 JIS Z2244

*Proof load of full-size externally threaded fasteners*

FA/573 JIS B1051 Sec. 4.2.4

*Recovery test of washers*

FA/674 JIS B1252

FA/677 JIS B1251

*Rockwell hardness of fasteners*

FA/707 JIS B1051 Sec. 4.2.5

*Salt spray testing of fasteners*

FA/569 JIS Z2371

FA/598 JIS H8502

*Twist test of lock washers*

FA/678 JIS B1251

*Wedge tensile strength of full-size threaded fasteners*

FA/575 JIS B1051 Sec. 4.2.3

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/645 JIS B1051

*Surface discontinuities of externally threaded fasteners*

FA/603 JIS B1043

FA/646 JIS B1041

NVLAP LAB CODE 200183-0

**California Screw Products**

14957 Gwenchris Court

Paramount, CA 90723-3423

Contact: Mr. Ralph Terrazas

Phone: 562-633-6626

Fax: 562-633-2082

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

*NVLAP*

Code Designation

*Dimensional Inspection*

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*External thread parameters - SAE fastener with MJ metric screw threads*

FA/922 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*External thread parameters - system 23*

FA/385 ANSI/ASME B1.3M

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/799 NASM 1312-8

*Double shear of externally threaded fasteners*

FA/880 NASM 1312-13



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued*****Fatigue of full-size threaded fasteners***

FA/876 NASM 1312-11

***Hydrogen embrittlement (stress durability) of externally threaded fasteners***

FA/875 NASM 1312-5

***Magnetic permeability***

FA/214 ASTM A342 Test Method 3

***Measurement of fastener coating thickness - dimensional change method***

FA/874 NASM 1312-12

***Measurement of fastener coating thickness - eddy-current method***

FA/872 NASM 1312-12

***Measurement of fastener coating thickness - microscopical method***

FA/873 NASM 1312-12

***Microhardness of fasteners***

FA/877 NASM 1312-6

***Recess strength test in both the installation and removal directions***

FA/886 NASM 1312-25

***Rockwell hardness of fasteners***

FA/878 NASM 1312-6

***Single shear of externally threaded fasteners***

FA/879 NASM 1312-20

***Stress rupture of fasteners***

FA/881 NASM 1312-10

***Metallography******Decarburization and case depth measurement in fasteners***

FA/328 SAE J121

***Determination of grain size of fasteners***

FA/331 ASTM E112

***Macroscopic examination of fasteners by etching***

FA/511 ASTM E340

***Microscopic examination of fasteners by etching***

FA/512 ASTM E407

***Surface discontinuities of externally threaded fasteners***

FA/357 ASTM F788/788M

NVLAP LAB CODE 200184-0

**NSS Technologies**

9075 General Drive

Plymouth, MI 48170-4623

Contact: Mr. Darrin Keener

Phone: 313-416-5721

Fax: 313-453-0690

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection*****Dimensions of general purpose fasteners and high-volume machine assembly fasteners***

FB/1083 NSS TIM-0006

FB/1084 NSS TIM-0007

FB/1085 NSS TIM-0008

FB/1086 NSS TIM-0009

***External thread parameters - system 21***

FA/379 ANSI/ASME B1.3M

FB/1079 NSS TIM-0010

***External thread parameters - system 22***

FA/381 ANSI/ASME B1.3M

FB/1080 NSS TIM-0010

***Internal thread parameters - system 21***

FA/391 ANSI/ASME B1.3M

FB/1081 NSS TIM-0010

***Internal thread parameters - system 22***

FA/393 ANSI/ASME B1.3M

FB/1082 NSS TIM-0010

***Mechanical and Physical Testing and Inspection******Axial tensile strength of full-size threaded fasteners***

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/267 ASTM F606M Sec. 3.4.1-3.4.3

FA/273 SAE J429

FA/578 SAE J1216 Sec. 3.5

FB/1089 SAE J995

***Proof load of full-size externally threaded fasteners***

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/229 SAE J429

FA/467 ASTM F606M Sec. 3.2.1-3.2.3

FA/577 SAE J1216 Sec. 3.3

FB/1087 ANSI/AWWA C111/A21.11

***Proof load of internally threaded fasteners (nuts)***

FA/236 ASTM F606 Sec. 4.2

FA/237 ASTM F606M Sec. 4.2

FA/241 SAE J995 Sec. 5.1

FB/1088 ANSI/AWWA C111/A21.11

***Rockwell hardness of fasteners***

FA/197 ASTM E18

***Metallography******Surface discontinuities of externally threaded fasteners***

FA/357 ASTM F788/788M

FA/361 SAE J123

FB/1090 Chrysler PF-5188

***Surface discontinuities of internally threaded fasteners***

FA/703 SAE J122

FA/865 ASTM F812/F812M

FB/1091 Chrysler PF-5189

***Nondestructive Inspection******Magnetic particle inspection of fasteners***

FA/374 ASTM E709

FA/485 ASTM E1444

NVLAP LAB CODE 200185-0

**Acominas - Analysis and Testing Laboratory**

Rodovia MG, 443 - km 05  
Ouro Branco MG 36420.000  
BRAZIL  
Contact: Mr. Dalvio Correia Mourao  
Phone: 55-31-749-3334  
Fax: 55-31-749-3302  
E-Mail: dalvio@acominas.com.br

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

NVLAP  
Code Designation

**Chemical Analysis**

*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FA/455 ASTM E1019

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

*Solution chemical analysis*

FA/448 ASTM E350

*X-ray fluorescence (XRF) spectrochemical analysis*

FA/463 ASTM E1085

NVLAP LAB CODE 200186-0

**Hitachi Information Technology Co., Ltd. Nakai**

**Test Site**

Nakai Test Site  
456 Sakai, Nakai-machi, Ashigarakami-gun  
Kanagawa 259-0157  
JAPAN  
Contact: Mr. Seiichi Kawashima  
Phone: 81-463-88-1311  
Fax: 81-463-87-1723

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

NVLAP  
Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200187-0

**Arden Fasteners**

901 South Rohlwing Road, Unit J  
Addison, IL 60101-4241  
Contact: Mr. Michael J. Stevens  
Phone: 612-482-7445  
Fax: 612-483-1470  
E-Mail: mikes@arden-fas.com

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

NVLAP  
Code Designation

**Dimensional Inspection**

*Dimensions of fasteners - flange screw heads and flange nuts*

FA/566 IFI D21 p. D21

FA/712 IFI 111

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/718 IFI 115

FA/719 ANSI/ASME B1.1

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/403 ANSI/ASME B18.18.1M

FA/404 ANSI/ASME B18.18.2M

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

*Drill-drive test*

FA/710 SAE J78

FA/711 SAE J81

*Drive test*

FA/717 ANSI/ASME B18.6.4

*Ductility test of thread rolling and self-drilling tappings screws*

FA/249 SAE J78

FA/250 SAE J81

*Hardness preparation*

FA/482 ASTM F606

*Hydrogen embrittlement (stress durability) of externally threaded fasteners*

FA/708 FIP 1000.6 Fastener Inspection Products

FA/709 SAE J81 Sec. 3.9

*Measurement of fastener coating thickness - magnetic methods*

FA/153 ASTM B499

*Microhardness of fasteners*

FA/189 ASTM E384

*Prevailing torque*

FA/217 IFI-100/107

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Test for embrittlement of metallic coated externally threaded fasteners*

FA/715 SAE J81  
FA/716 FIP 1000.6

*Torsional strength test of thread rolling and self-drilling tapping screws*

FA/253 SAE J78  
FA/254 SAE J81

*Twist test of lock washers*

FA/321 ASME B18.21.1

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/327 SAE J78

NVLAP LAB CODE 200188-0

**EMSL Analytical, Inc.**

6330 East 75th Street, Suite 152  
Indianapolis, IN 46250  
Contact: Mr. Richard Harding  
Phone: 317-570-5892  
Fax: 317-570-5894

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 200189-0

**Japan Quality Assurance Organization Safety Testing Center**

1-21-25, Kinuta, Setagaya-ku  
Tokyo 157-8573  
JAPAN

Contact: Mr. Tateo Kashiwagi

Phone: 81-3-3416-0193

Fax: 81-3-3416-8290

E-Mail: JQA00091@nifty.ne.jp

URL: <http://www/jqq.or.jp>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200190-0

**Japan Quality Assurance Org. Chubu Testing Center Shikatsu Branch**

53-1, Yamaura, Yakushiji, Shikatsu-cho  
Nishikasugai-gun  
Aichi 481-005  
JAPAN

Contact: Mr. Yasuhiko Kawakami

Phone: 81-568-23-0023

Fax: 81-568-23-0116

URL: <http://www.jqa.or.jp>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200191-0

**Japan Quality Assurance Organization Kita-Kansai Testing Center**

7-7, Ishimaru 1-chome, Minoo-shi  
Osaka 562-0027  
JAPAN

Contact: Mr. Fumio Matsuda

Phone: 81-0727-29-2243

Fax: 81-0727-28-6848

E-Mail: JQA00127@nifty.ne.jp

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548



**Federal Communications Commission (FCC) Methods**

- 12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
 12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
 12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

- 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200192-0**

**Japan Quality Assurance Org. Safety Testing Ctr. Tsuru EMC Branch**

2096, Ohata Tanbozawa, Tsuru-shi  
 Yamanashi 402-0045  
 JAPAN

Contact: Mr. Tateo Kahiwagi  
 Phone: 81-3-3416-0193  
 Fax: 81-3-3416-8290  
 E-Mail: JQA00091@nifty.ne.jp  
 URL: http://www.jqa.or.jp

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL**

**Technical Standards**

- 12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

- 12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
 12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
 12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

- 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200194-0**

**TWN Fastener, Inc.**

1070 Monterey Court  
 Bowling Green, KY 42101  
 Contact: Mr. Kazuma Sunagawa  
 Phone: 502-781-8500  
 Fax: 502-781-3150

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection**

**Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

- FA/607 JIS B1071

**Mechanical and Physical Testing and Inspection**

**Axial tensile strength of full-size threaded fasteners**

- FA/266 ASTM F606 Sec. 3.4.1-3.4.3  
 FA/574 JIS B1051 Sec. 4.2.2

**Hardness preparation**

- FA/482 ASTM F606

**Measurement of fastener coating thickness - magnetic methods**

- FA/155 ASTM E376  
 FA/596 JIS H8501

**Measurement of fastener coating thickness - weight of coating**

- FA/619 JIS H8501

**Microhardness of fasteners**

- FA/642 JIS B1051 Sec. 4.2.5

**Proof load of full-size externally threaded fasteners**

- FA/226 ASTM F606 Sec. 3.2.1-3.2.3  
 FA/573 JIS B1051 Sec. 4.2.4

**Rockwell hardness of fasteners**

- FA/616 JIS B1051 Sec. 4.3

**Salt spray testing of fasteners**

- FA/166 ASTM B117

**Wedge tensile strength of full-size threaded fasteners**

- FA/290 ASTM F606 Sec. 3.5  
 FA/575 JIS B1051 Sec. 4.2.3

**Metallography**

**Decarburization and case depth measurement in fasteners**

- FA/645 JIS B1051

**Surface discontinuities of externally threaded fasteners**

- FA/357 ASTM F788/788M

**NVLAP LAB CODE 200195-0**

**Republic Fastener Manufacturing**

1300 Rancho Conejo Blvd.  
 Newbury Park, CA 91320-1405  
 Contact: Mr. Dirk Deem  
 Phone: 805-498-6621  
 Fax: 805-498-4250

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection**

**Dimensions of fasteners - bearing surface squareness**

- FA/633 MIL-N-25027  
 FA/911 BPS-N-70  
 FA/912 NAS 3350  
 FA/913 MIL-N-7873



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

FA/914 AMS 7251  
FA/921 Northrop 33A056  
*Internal thread parameters - system 21*

FA/629 MIL-S-8879  
*Internal thread parameters - system 22*

FA/396 MIL-S-8879  
*Surface texture*

FA/439 ANSI/ASME B46.1  
*Mechanical and Physical Testing and Inspection*

*Adhesion of metallic coatings on fasteners*

FA/541 QQ-P-416 Sec. 4.6.2  
FA/916 BPS-N-70

*Axial tensile strength of full-size threaded fasteners*

FA/271 MIL-STD-1312-8  
*Elevated temperature testing capability*

FA/895 BPS-N-70  
FA/896 MIL-N-25027  
FA/897 NAS 3350

*Hydrogen embrittlement (stress durability) of internally threaded fasteners*

FA/178 MIL-STD-1312-14

*Magnetic permeability*

FA/214 ASTM A342 Test Method 3

*Measurement of fastener coating thickness - beta backscatter method*

FA/889 ASTM B567

*Measurement of fastener coating thickness - microscopical method*

FA/160 ASTM B487  
FA/163 MIL-STD-1312-12

*Microhardness of fasteners*

FA/193 MIL-STD-1312-6  
FA/898 NAS 3350

*Permanent set test of self-locking nuts*

FA/109 MIL-N-25027  
FA/110 NAS 3350  
FA/890 MIL-N-7873

*Prevailing torque*

FA/630 MIL-N-25027  
FA/899 BPS-N-70  
FA/900 AMS 7251  
FA/901 MIL-N-7873  
FA/902 NAS 3350  
FA/920 Northrop 33A056

*Proof load of internally threaded fasteners (nuts)*

FA/903 NAS 3350  
FA/917 BPS-N-70  
FA/918 MIL-N-25027

*Push out test of floating plate nuts, gang channel nuts, and anchor nuts*

FA/116 MIL-N-25027  
FA/891 BPS-N-70

*Reusability test of self-locking internally threaded fasteners*

FA/123 MIL-N-7873  
FA/124 MIL-N-25027  
FA/125 NAS 3350  
FA/774 BPS-N-70

FA/892 AMS 7251  
FA/919 Northrop 33A056  
*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18  
FA/209 MIL-STD-1312-6

*Room temperature of three cycles test of floating plate nuts, gang channel nuts and anchor*

FA/915 AMS 7251  
*Salt spray testing of fasteners*

FA/166 ASTM B117  
FA/168 MIL-STD-1312-1

*Torque-out test*

FA/523 MIL-STD-1312-31

*Water immersion method - test for anodic surface containment on corrosion resistant fasten*

FA/756 MIL-STD-753 Test 100

*Wrench torque test of externally wrenching nuts of spline and hexagon and double hexagon (1*

FA/141 MIL-N-25027  
FA/142 NAS 3350  
FA/893 BPS-N-70  
FA/894 AMS 7251

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/904 BPS-N-70  
FA/908 NAS 3350

*Determination of grain size of fasteners*

FA/905 BPS-N-70  
FA/909 NAS 3350

*Microscopic examination of fasteners by etching*

FA/906 BPS-N-70  
FA/910 NAS 3350

*Surface discontinuities of internally threaded fasteners*

FA/907 BPS-N-70

*Nondestructive Inspection*

*Liquid penetrant inspection of fasteners*

FA/527 ASTM E1417

*Magnetic particle inspection of fasteners*

FA/485 ASTM E1444

NVLAP LAB CODE 200196-0

**Belgo-Mineira Chemical Laboratory**

Av. Getulio Vargas, No 100  
35.930-900 Joao Monlevade, M.G.  
BRAZIL  
Contact: Mr. Alexandre de Azevedo Caixeta  
Phone: 055-31-859-1477  
Fax: 055-31-859-1545  
E-Mail: caixetqa@bms.com.br

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

NVLAP

Code Designation

*Chemical Analysis*

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

**Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen**

FA/455 ASTM E1019  
FA/563 ASTM E1806

**Optical emission spectrochemical analysis**

FA/457 ASTM E415  
FA/555 ASTM E1009  
FA/564 ASTM E1806

**X-ray fluorescence (XRF) spectrochemical analysis**

FA/461 ASTM E322  
FA/565 ASTM E1806

---

**NVLAP LAB CODE 200197-0****Asakawa Screw Co., Ltd.**

1261 Nippa-cho, Kohoku-ku  
Yokohama 223  
JAPAN  
Contact: Mr. Tatsuhiko Asakawa  
Phone: 045-531-1292  
Fax: 045-543-1500

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code      Designation

**Dimensional Inspection****Dimensions of fasteners - bearing surface squareness**

FA/649 JIS B1071

**Dimensions of fasteners - flange screw heads and flange nuts**

FA/610 JIS B1190

**Dimensions of fasteners - gaging for slotted nuts**

FA/698 JIS B1170

**Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets**

FA/697 JIS B1180

**Dimensions of fasteners - straightness**

FA/648 JIS B1071

**Surface texture**

FA/650 JIS B1071

**Mechanical and Physical Testing and Inspection****Axial tensile strength of full-size threaded fasteners**

FA/574 JIS B1051 Sec. 4.2.2

**Embrittlement test of washers**

FA/673 JIS B1252

**Microhardness of fasteners**

FA/620 JIS Z2244

**Proof load of full-size externally threaded fasteners**

FA/573 JIS B1051 Sec. 4.2.4

**Proof load of internally threaded fasteners (nuts)**

FA/601 JIS B1052

**Rockwell hardness of fasteners**

FA/572 JIS Z2245

**Rockwell superficial hardness of fasteners**

FA/699 JIS Z2245

**Torque-tension of full-size threaded fasteners**

FA/308 SAE J174

**Twist test of lock washers**

FA/678 JIS B1251

**Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)**

FA/571 JIS Z2244

**Wedge tensile strength of full-size threaded fasteners**

FA/575 JIS B1051 Sec. 4.2.3

**Yield strength of full-size externally threaded fasteners**

FA/686 JIS B1051 Sec. 4.2.2

**Metallography****Decarburization and case depth measurement in fasteners**

FA/645 JIS B1051

**Determination of grain size of fasteners**

FA/700 JIS G0551

**Microscopic examination of fasteners by etching**

FA/512 ASTM E407

**Surface discontinuities of externally threaded fasteners**

FA/361 SAE J123

**Surface discontinuities of internally threaded fasteners**

FA/365 SAE J122

**Nondestructive Inspection****Magnetic particle inspection of fasteners**

FA/701 JIS G0565

---

**NVLAP LAB CODE 200198-0****IBM Yamato EMC Engineering**

1623-14, Shimotsuruma  
Yamato Kanagawa 242  
JAPAN  
Contact: Mr. Akihisa Sakurai  
Phone: 81-462-73-2613  
Fax: 81-462-73-7420  
E-Mail: akihisa@jp.ibm.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code      Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****NVLAP LAB CODE 200199-0****NAWCWPNS EMI Lab, China Lake/Pt. Mugu, CA**

Commander, NAWCWPNS Division  
1 Administration Circle, Code 473140D  
China Lake, CA 93555-6001  
Contact: Mr. S. N. Tanner  
Phone: 760-939-4669  
Fax: 760-939-1065  
E-Mail: [steve\\_tanner@imdgw.chinalake.navy.mil](mailto:steve_tanner@imdgw.chinalake.navy.mil)

**MIL-STD-462 Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Conducted Emissions:**

12/A01	MIL-STD-462 Method CE01
12/A04	MIL-STD-462 Method CE02
12/A06	MIL-STD-462 Method CE03
12/A08	MIL-STD-462 Method CE04
12/A10	MIL-STD-462 Method CE06
12/A12	MIL-STD-462 Method CE07

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B05	MIL-STD-462 Method CS06

**Radiated Emissions:**

12/D01	MIL-STD-462 Method RE01
12/D02	MIL-STD-462 Method RE02

**Radiated Susceptibility:**

12/E01	MIL-STD-462 Method RS01
12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)
12/E04	MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)
12/E05	MIL-STD-462 Method RS05

**NVLAP LAB CODE 200200-0****IBM RTP PSG EMC Test Labs**

3039 Cornwallis Road  
Research Triangle Park, NC 27709-2195  
Contact: Mr. Jairo Pacheco  
Phone: 919-543-3686  
Fax: 919-254-7778

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 200201-0****Intertek Testing Services**

1365 Adams Court  
Menlo Park, CA 94025  
Contact: Mr. C. K. Li  
Phone: 650-463-2922  
Fax: 650-463-2910  
E-Mail: [ckli@itsqs.com](mailto:ckli@itsqs.com)  
URL: <http://www.worldlab.com>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

**NVLAP LAB CODE 200202-0****NOVA Machine Products**

18001 Sheldon Road  
Middleburg Heights, OH 44130-2471  
Contact: Mr. David Nenstiel  
Phone: 216-267-3200  
Fax: 216-267-8515  
E-Mail: [dnenstiel@nova-nsa.com](mailto:dnenstiel@nova-nsa.com)  
URL: <http://www.lab@nova-nsa.com>

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Chemical Analysis**



*Optical emission spectrochemical analysis*

FA/457 ASTM E415  
FA/459 ASTM E1086

*Spot test analysis*

FA/748 Alloy Detector Mark II

*Dimensional Inspection*

*Dimensions of ISO grade A and B fasteners*

FA/738 ISO 4014  
FA/739 ISO 4017  
FA/740 ISO 4032

*Dimensions of ISO grade C fasteners*

FA/741 ISO 4016  
FA/742 ISO 4018  
FA/743 ISO 4034

*Dimensions of fasteners - bearing surface squareness*

FA/745 ANSI B18.2.1  
FA/746 ASME/ANSI B18.2.2  
FA/747 ASME/ANSI B18.3

*Dimensions of fasteners - flange screw heads and flange nuts*

FA/744 ANSI B18.2.1

*Dimensions of fasteners - gaging for slotted nuts*

FA/417 ANSI/ASME B18.2.2

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/411 ANSI/ASME B18.3

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/403 ANSI/ASME B18.18.1M  
FA/404 ANSI/ASME B18.18.2M

*Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap*

FA/405 ANSI/ASME B18.18.3M  
FA/406 ANSI/ASME B18.18.4M

*External thread parameters - ISO*

FA/728 ISO 68  
FA/729 ISO 261  
FA/730 ISO 262  
FA/731 ISO 965-1  
FA/732 ISO 965-2

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*External thread parameters - system 23*

FA/385 ANSI/ASME B1.3M

*Internal thread parameters - ISO*

FA/733 ISO 68  
FA/734 ISO 261  
FA/735 ISO 262  
FA/736 ISO 965-1  
FA/737 ISO 965-2

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

*Internal thread parameters - system 22*

FA/393 ANSI/ASME B1.3M

*Internal thread parameters - system 23*

FA/397 ANSI/ASME B1.3M

*Surface texture*

FA/439 ANSI/ASME B46.1

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/265 ASTM A370 Sec. A3.2.1.4  
FA/266 ASTM F606 Sec. 3.4.1-3.4.3  
FA/273 SAE J429  
FA/274 SAE J1216  
FA/687 ISO 6892

*Compression load of compressible-washer-type direct tension indicators*

FA/312 ASTM F959

*Cone proof load of internally threaded fasteners (nuts)*

FA/220 ASTM F606 Sec. 4.3

*Embrittlement test of washers*

FA/313 ASME B18.21.1

*Hardness preparation*

FA/482 ASTM F606

*Hydrogen embrittlement (stress durability) of externally threaded fasteners*

FA/176 MIL-STD-1312-5

*Hydrogen embrittlement (stress durability) of internally threaded fasteners*

FA/178 MIL-STD-1312-14

*Proof load of full-size externally threaded fasteners*

FA/225 ASTM A370 Sec. A3.2.1.1-A3.2.1.3  
FA/226 ASTM F606 Sec. 3.2.1-3.2.3  
FA/229 SAE J429 Sec. 5.3  
FA/230 SAE J1216 Sec. 3.3

*Proof load of internally threaded fasteners (nuts)*

FA/235 ASTM A370 Sec. A3.5.1  
FA/236 ASTM F606 Sec. 4.2  
FA/241 SAE J995 Sec. 5.1

*Recovery test of washers*

FA/726 ASME/ANSI B18.21.1

*Rockwell hardness of fasteners*

FA/196 ASTM A370 Sec. 18  
FA/197 ASTM E18  
FA/200 ISO 6508  
FA/202 SAE J417

*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18  
FA/206 ASTM A370 Sec. 18  
FA/210 SAE J417

*Temper test of lock washers*

FA/319 ASME B18.21.1

*Tension testing of machined specimens from externally threaded fasteners*

FA/278 ASTM A370  
FA/279 ASTM F606 Sec. 3.6  
FA/283 SAE J429  
FA/475 ASTM E8  
FA/580 ISO 6892



*Test for embrittlement of metallic coated externally threaded fasteners*

FA/179 ASTM F606 Sec. 7  
FA/724 ASTM A143

*Torque-tension of full-size threaded fasteners*

FA/307 MIL-STD-1312-15

*Total extension at fracture of externally threaded fasteners*

FA/285 ASTM F606 Sec. 3.7  
FA/725 ISO 6892

*Twist test of lock washers*

FA/321 ASME B18.21.1

*Wedge tensile strength of full-size threaded fasteners*

FA/289 ASTM A370  
FA/290 ASTM F606 Sec. 3.5  
FA/468 SAE J429 Sec. 5.5  
FA/469 SAE J1216 Sec. 3.6  
FA/688 ISO 6892

**Metallography**

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788/788M  
FA/359 ISO 6157-1  
FA/360 ISO 6157-3  
FA/361 SAE J123

*Surface discontinuities of internally threaded fasteners*

FA/363 ASTM F812  
FA/365 SAE J122  
FA/727 ISO 6157-2

NVLAP LAB CODE 200203-0

**Fuji Buhin Kogyo Kabushiki Kaisha**

47-1 Fujikura-Cho  
Ohta Gunma 373-8501  
JAPAN  
Contact: Mr. Shinji Kanai  
Phone: 276-31-2311  
Fax: 276-31-9621

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

**Dimensional Inspection**

*Internal thread parameters - system 21*

FA/621 JIS B0251  
FA/622 JIS B0252  
FA/623 JIS B1071

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

*Measurement of fastener coating thickness - coulometric method*

FA/597 JIS H8501

*Microhardness of fasteners*

FA/620 JIS Z2244

*Prevailing torque*

FA/600 JIS B1056

*Proof load of internally threaded fasteners (nuts)*

FA/601 JIS B1052

*Rockwell hardness of fasteners*

FA/572 JIS Z2245

*Salt spray testing of fasteners*

FA/569 JIS Z2371

*Wedge tensile strength of full-size threaded fasteners*

FA/575 JIS B1051 Sec. 4.2.3

NVLAP LAB CODE 200204-0

**EMSL Analytical, Inc.**

19595 NE 10th Ave., Bay C  
N. Miami Beach, FL 33179  
Contact: Ms. Kimberly A. Wallace  
Phone: 305-650-0577  
Fax: 305-650-0578

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 200205-0

**Sannohashi Corporation**

1218 Ohsone  
Yashioshi, Saitama-ken 340  
JAPAN  
Contact: Mr. Takeru Nagashima  
Phone: 011-81-3-3890-4101  
Fax: 011-81-3-3854-5761

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

**Dimensional Inspection**

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/607 JIS B1071

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

*Measurement of fastener coating thickness - eddy-current method*

FA/618 JIS H8501

*Measurement of fastener coating thickness - weight of coating*

FA/619 JIS H8501

*Proof load of internally threaded fasteners (nuts)*

FA/601 JIS B1052

*Rockwell hardness of fasteners*

FA/572 JIS Z2245

*Wedge tensile strength of full-size threaded fasteners*

FA/575 JIS B1051 Sec. 4.2.3

**NVLAP LAB CODE 200207-0**

**Kansai Electronic Industry Development Center,  
Ikoma Testing Lab.**

10630 Takayama-cho

Ikoma Nara 630-0101

JAPAN

Contact: Mr. Tadayoshi Sakabe

Phone: 0743-78-0283

Fax: 0743-79-1014

URL: <http://www.kec.or.jp/>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200208-0**

**Ingersoll Fasteners**

390 Thomas Street

Ingersoll Ontario N5C 3K3

CANADA

Contact: Mr. Alan Palmer

Phone: 519-485-4610

Fax: 519-485-2435

E-Mail: IFQA@IVACO.COM

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

**Dimensional Inspection**

*Dimensions of general purpose fasteners and  
high-volume machine assembly fasteners*

FA/404 ANSI/ASME B18.18.2M

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/273 SAE J429

FA/578 SAE J1216 Sec. 3.5

*Cone proof load of internally threaded fasteners (nuts)*

FA/220 ASTM F606 Sec. 4.3

*Measurement of fastener coating thickness - magnetic  
methods*

FA/153 ASTM B499

*Microhardness of fasteners*

FA/189 ASTM E384

*Proof load of full-size externally threaded fasteners*

FA/229 SAE J429 Sec. 5.3

FA/577 SAE J1216 Sec. 3.3

*Proof load of internally threaded fasteners (nuts)*

FA/241 SAE J995 Sec. 5.1

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Tension testing of machined specimens from externally  
threaded fasteners*

FA/278 ASTM A370

*Wedge tensile strength of full-size threaded fasteners*

FA/468 SAE J429 Sec. 5.5

FA/579 SAE J1216 Sec. 3.6

**Metallography**

*Decarburization and case depth measurement in  
fasteners*

FA/328 SAE J121

*Macroscopic examination of fasteners by etching*

FA/337 SAE J1061

*Microscopic examination of fasteners by etching*

FA/344 SAE J121

*Surface discontinuities of externally threaded fasteners*

FA/362 SAE J1061

*Surface discontinuities of internally threaded fasteners*

FA/363 ASTM F812

**NVLAP LAB CODE 200210-0**

**Rightway Fasteners, Inc.**

7945 South International Drive

Columbus, IN 47201-9329

Contact: Mr. Dennis Gray

Phone: 812-342-2700

Fax: 812-341-3500

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Dimensional Inspection**

**Dimensions of fasteners - flange screw heads and flange nuts**

FA/690 JIS B1071

**Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets**

FA/689 JIS B1071

**Dimensions of fasteners - straightness**

FA/648 JIS B1071

**Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

FA/607 JIS B1071

**Mechanical and Physical Testing and Inspection**

**Adhesion of metallic coatings on fasteners**

FA/595 JIS H8504

**Axial tensile strength of full-size threaded fasteners**

FA/574 JIS B1051 Sec. 4.2.2

**Measurement of fastener coating thickness - weight of coating**

FA/619 JIS H8501

**Rockwell hardness of fasteners**

FA/572 JIS Z2245

**Rockwell superficial hardness of fasteners**

FA/699 JIS Z2245

**Salt spray testing of fasteners**

FA/569 JIS Z2371

**Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)**

FA/571 JIS Z2244

**Wedge tensile strength of full-size threaded fasteners**

FA/575 JIS B1051 Sec. 4.2.3

NVLAP LAB CODE 200212-0

**Sundram Fasteners Limited (Inhouse test laboratory)**

Padi

Chennai (Madras), Tamil, Nadh 600 050

INDIA

Contact: Mr. Sampathkumar Moorthy

Phone: 91-44-852-1870

Fax: 91-44-853-5435

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

**Dimensional Inspection**

**Dimensions of ISO grade A and B fasteners**

FA/408 ISO 4759-1

**Dimensions of ISO grade C fasteners**

FA/410 ISO 4759-1

**Dimensions of fasteners - flange screw heads and flange nuts**

FA/669 ISO 4161

FA/670 ISO 4162

**Dimensions of fasteners - gaging for slotted nuts**

FA/980 ISO 4759-2

**Dimensions of fasteners - straightness**

FA/668 ISO 4759-1

**Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

FA/665 ISO 4759-1

**External thread parameters - ISO**

FA/390 ISO 1502

**External thread parameters - SAE fastener with MJ metric screw threads**

FA/389 SAE MA1566

FA/661 ISO 4759-1

FA/662 ISO 1502

**External thread parameters - system 21**

FA/659 ISO 4759-1

FA/660 ISO 1502

**Internal thread parameters - ISO**

FA/402 ISO 1502

FA/664 ISO 4759-1

**Internal thread parameters - SAE fastener with MJ metric screw threads**

FA/979 ISO 4759-1

**Mechanical and Physical Testing and Inspection**

**Axial tensile strength of full-size threaded fasteners**

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/270 ISO 898-1 Sec. 8.2

FA/273 SAE J429

FA/274 SAE J1216

**Brinell hardness of fasteners**

FA/466 ISO 6506

**Cone proof load of internally threaded fasteners (nuts)**

FA/220 ASTM F606 Sec. 4.3

FA/221 ASTM F606M Sec. 4.3

FA/223 SAE J122 Sec. 4.3

**Microhardness of fasteners**

FA/657 ASTM E92

**Prevailing torque**

FA/217 IFI-100/107

FA/218 ISO 2320

**Proof load of full-size externally threaded fasteners**

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/228 ISO 898-1 Sec. 8.4

FA/229 SAE J429 Sec. 5.3

FA/230 SAE J1216 Sec. 3.3

FA/467 ASTM F606M Sec. 3.2.1-3.2.3

**Proof load of internally threaded fasteners (nuts)**

FA/236 ASTM F606 Sec. 4.2

FA/237 ASTM F606M Sec. 4.2

FA/239 ISO 898-2 Sec. 8.1

FA/240 ISO 898-6 Sec. 8.1

FA/241 SAE J995 Sec. 5.1



### Rockwell hardness of fasteners

FA/197 ASTM E18  
FA/200 ISO 6508

### Salt spray testing of fasteners

FA/I66 ASTM B117

### Tension testing of machined specimens from externally threaded fasteners

FA/279 ASTM F606 Sec. 3.6  
FA/280 ASTM F606M Sec. 3.6  
FA/282 ISO 898-I  
FA/283 SAE J429  
FA/284 SAE J1216

### Torque-tension of full-size threaded fasteners

FA/306 IFI-101  
FA/308 SAE J174

### Total extension at fracture of externally threaded fasteners

FA/285 ASTM F606 Sec. 3.7  
FA/286 ASTM F606M Sec. 3.7

### Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)

FA/658 ISO 6507-I

### Wedge tensile strength of full-size threaded fasteners

FA/290 ASTM F606 Sec. 3.5  
FA/291 ASTM F606M Sec. 3.5  
FA/294 ISO 898-1 Sec. 8.5  
FA/468 SAE J429 Sec. 5.5  
FA/469 SAE J1216 Sec. 3.6

### Yield strength of full-size externally threaded fasteners

FA/298 ASTM F606 Sec. 3.2.4  
FA/300 ASTM F606M Sec. 3.2.4

### Metallography

### Decarburization and case depth measurement in fasteners

FA/323 ASTM E1077  
FA/328 SAE J121  
FA/329 SAE J419  
FA/330 SAE J423

### Determination of grain size of fasteners

FA/331 ASTM E112  
FA/333 SAE J418

### Macroscopic examination of fasteners by etching

FA/334 ISO 6157-I  
FA/335 ISO 6157-3  
FA/336 SAE J123

### Surface discontinuities of externally threaded fasteners

FA/357 ASTM F788/788M  
FA/359 ISO 6157-I  
FA/361 SAE J123

### Surface discontinuities of internally threaded fasteners

FA/365 SAE J122  
FA/865 ASTM F812/F812M

### Nondestructive Inspection

### Magnetic particle inspection of fasteners

FA/374 ASTM E709  
FA/378 SAE J420

### NVLAP LAB CODE 200213-0

### Aoyama Fastener Laboratory

c/o Aoyama Seisakusho  
I-8 Takahashi, Ohguchi-cho  
Niwa-gun, Aichi Prefecture 480-0198  
JAPAN  
Contact: Mr. Shinichi Kondo  
Phone: 0587-95-1160  
Fax: 0587-95-1939

### Fasteners & Metals

Accreditation Valid Through: September 30, 1999

### NVLAP

Code Designation

### Dimensional Inspection

### Dimensions of general purpose fasteners and high-volume machine assembly fasteners

FA/607 JIS B107I  
FA/675 JIS B1012

### Surface texture

FA/650 JIS B107I

### Mechanical and Physical Testing and Inspection

### Adhesion of metallic coatings on fasteners

FA/595 JIS H8504

### Axial tensile strength of full-size threaded fasteners

FA/574 JIS B105I Sec. 4.2.2

### Measurement of fastener coating thickness - coulometric method

FA/597 JIS H850I

### Measurement of fastener coating thickness - eddy-current method

FA/618 JIS H850I

### Measurement of fastener coating thickness - microscopical method

FA/640 JIS H850I

### Measurement of fastener coating thickness - weight of coating

FA/619 JIS H850I

### Microhardness of fasteners

FA/620 JIS Z2244

### Proof load of internally threaded fasteners (nnts)

FA/601 JIS B1052

### Rockwell hardness of fasteners

FA/572 JIS Z2245  
FA/683 JIS B1052  
FA/707 JIS B1051 Sec. 4.2.5

### Salt spray testing of fasteners

FA/598 JIS H8502

### Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)

FA/571 JIS Z2244  
FA/643 JIS B105I Sec. 4.2.5  
FA/684 JIS B1052



---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

***Wedge tensile strength of full-size threaded fasteners***

FA/575 JIS B1051 Sec. 4.2.3  
FA/685 JIS D4604 Sec. 7.7(1)

***Yield strength of full-size externally threaded fasteners***

FA/686 JIS B1051 Sec. 4.2.2

***Metallography******Decarburization and case depth measurement in fasteners***

FA/645 JIS B1051

---

**NVLAP LAB CODE 200214-0****Underwriters Laboratories Inc.**

2600 N.W. Lake Road  
Camas, WA 98607-8542  
Contact: Mr. J. R. Beyreis  
Phone: 847-272-8800  
Fax: 847-272-8129  
E-Mail: beyreisj@ul.com  
URL: <http://www.ul.com>

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

***NVLAP***

<i>Code</i>	<i>Designation</i>
-------------	--------------------

***Australian Standards referred to by clauses in AUSTEL Technical Standards***

12/T51	AS/NZS 3548
--------	-------------

***Federal Communications Commission (FCC) Methods***

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

***International Special Committee on Radio Interference (CISPR) Methods***

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---

---

**NVLAP LAB CODE 200215-0****Sumitomo Metal Technology, Inc. Kokura Division**

1, Konomi-machi, Kokurakita-ku  
Kitakyushu 803-0803  
JAPAN  
Contact: Mr. Masanao Nakamura  
Phone: 81-93-581-3289  
Fax: 81-93-561-8099  
E-Mail: [nakamura-msn@aw.sumikin.co.jp](mailto:nakamura-msn@aw.sumikin.co.jp)

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

***NVLAP***

<i>Code</i>	<i>Designation</i>
-------------	--------------------

***Chemical Analysis******Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen***

FA/586 JIS G1211  
FA/587 JIS G1215

***Optical emission spectrochemical analysis***

FA/588 JIS G1253  
FA/681 JIS G1258

***Solution chemical analysis***

FA/680 JIS G1227

---

**NVLAP LAB CODE 200216-0****Battelle - Pacific Northwest National Laboratory**

Battelle Boulevard (Mail Stop K3-55)  
P.O. Box 999  
Richland, WA 99352-4553  
Contact: Mr. Jack J. Fix  
Phone: 509-375-2512  
Fax: 509-373-0167  
E-Mail: [jack.fix@pnl.gov](mailto:jack.fix@pnl.gov)  
URL: [http://www.pnl.gov/health/health\\_prot/](http://www.pnl.gov/health/health_prot/)

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: September 30, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing the Harshaw automatic reader model 8800 and manual reader model 6600.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993 and ANSI HPS N13.32-1995 through testing.

Harshaw Card 7776 (15, 15, 6, 15) in a Type 8825 holder for ANSI-N13.11 categories I, II, IIIA, IIIB, IV, VC, VI, VII, VIII.

Harshaw Combo 7777-7666 in a 8816 and 8825 model holder for ANSI-N13.11 category VIII.

Harshaw extremity TLD XD-740 in a finger ring holder for ANSI HPS N13.32 (NIST Handbook 150-4, Table 2) categories I, II, IIIA, IVA, VC.

---

**NVLAP LAB CODE 200217-0****Tokin EMC Engineering Co., Ltd. Kawasaki Facility**

398, Shiboguchi Takatsu-ku  
Kawasaki-city, Kanagawa 213  
JAPAN  
Contact: Mr. Hiro Shida  
Phone: 81-298-37-2400  
Fax: 81-298-37-2401

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200218-0

**Tokin EMC Engineering Co., Ltd. Osaka Testing  
Laboratory**

49, Aza-Miyanowaki, Sakai

Sanda-city, Hyogo 669-14

JAPAN

Contact: Mr. Motoji Nakai

Phone: 81-795-69-1290

Fax: 81-795-69-0079

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200219-0

**Tokin EMC Engineering Co., Ltd. Nagoya Testing  
Laboratory**

1684, Nishinoda, Nyugawakami

Daian-cho, Inabe-gun, Mie 511-0261

JAPAN

Contact: Mr. Masa Hirai

Phone: 81-594-78-2730

Fax: 81-594-78-2779

E-Mail: GAE01253@nifty.ne.jp

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200220-0

**Korea Tokin EMC Engineering Co., Ltd.**

820-2, Wolmoon-Ri, WaBu-up

Namyangju-si, Kyunggi-Do

KOREA

Contact: Mr. Charles Park

Phone: 82-346-576-2204

Fax: 82-346-576-2205

E-Mail: ktemc@united.co.kr

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

*Australian Standards referred to by clauses in AUSTEL*

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200221-0

**Tokin EMC Engineering Co., Ltd. Tsukuba Testing Laboratory**

28-1, Aza-Kitahara  
Ohaza- Hanashimashinden  
Tsukuba-city, Ibaraki 305  
JAPAN

Contact: Mr. Hira Shida  
Phone: 81-298-37-2400  
Fax: 81-298-37-2401

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200222-0

**NAWC-Aircraft Div. Lakehurst Electromagnetic Interference Lab.**

Highway 547, 355-2, Code 48L500B

Lakehurst, NJ 08733-5100

Contact: Mr. Richard Howlett

Phone: 732-323-2951

Fax: 732-323-1464

E-Mail: howletrm@lakehurst.navy.mil

**MIL-STD-462 Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Conducted Emissions:*

12/A01 MIL-STD-462 Method CE01

12/A04 MIL-STD-462 Method CE02

12/A06 MIL-STD-462 Method CE03

12/A12 MIL-STD-462 Method CE07

*Conducted Susceptibility:*

12/B01 MIL-STD-462 Method CS01

12/B02 MIL-STD-462 Method CS02

12/B05 MIL-STD-462 Method CS06

12/B08 MIL-STD-462 Method CS10

12/B09 MIL-STD-462 Method CS11

*Radiated Emissions:*

12/D01 MIL-STD-462 Method RE01

12/D02 MIL-STD-462 Method RE02

*Radiated Susceptibility:*

12/E01 MIL-STD-462 Method RS01

12/E02 MIL-STD-462 Method RS02

12/E04 MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing (Consult laboratory for field strengths available)

NVLAP LAB CODE 200223-0

**Metallic Material Laboratory in Toyota Motor Co.**

Quality Div., Toyota Motor Corporation

1 Toyota-cho

Toyota city Aichi 471-8571

JAPAN

Contact: Mr. Toji Sakota

Phone: 0565-23-3500

Fax: 0565-23-5730

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

*Dimensional Inspection*

*Dimensions of fasteners - flange screw heads and flange nuts*

FA/690 JIS B1071

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/689 JIS B1071

*Dimensions of fasteners - straightness*

FA/648 JIS B1071

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/607 JIS B1071

*External thread parameters - system 21*

FA/647 JIS B1071

*Internal thread parameters - system 21*

FA/623 JIS B1071

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

*Measurement of fastener coating thickness - magnetic methods*

FA/596 JIS H8501



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Measurement of fastener coating thickness -  
microscopical method**

FA/640 JIS H8501

**Microhardness of fasteners**

FA/620 JIS Z2244

**Proof load of internally threaded fasteners (nuts)**

FA/601 JIS B1052

**Salt spray testing of fasteners**

FA/598 JIS H8502

**Vickers hardness - test forces from 9.807 to 1176 N (1 to  
120 kgf)**

FA/571 JIS Z2244

FA/643 JIS B1051 Sec. 4.2.5

FA/684 JIS B1052

**Wedge tensile strength of full-size threaded fasteners**

FA/575 JIS B1051 Sec. 4.2.3

**Metallography****Decarburization and case depth measurement in  
fasteners**

FA/645 JIS B1051

**NVLAP LAB CODE 200224-0****Northwestern Steel and Wire Company**

121 Wallace Street

P.O. Box 618

Sterling, IL 61081

Contact: Mr. Robert C. Olson

Phone: 815-625-2500

Fax: 815-625-0227

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Chemical Analysis****Optical emission spectrochemical analysis**

FA/457 ASTM E415

**NVLAP LAB CODE 200225-0****J.W. Mfg. DBA Van Petty Mfg.**

2517 Azurite Circle

Newbury Park, CA 91320

Contact: Mr. Robert Bucholtz

Phone: 805-498-4594

Fax: 805-458-1021

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection****Dimensions of fasteners - hexagon and double hexagon  
(12 point) and spline sockets**

FA/411 ANSI/ASME B18.3

**Dimensions of special purpose fasteners and fasteners for  
highly specialized engineered ap**

FA/405 ANSI/ASME B18.18.3M

**External thread parameters - system 22**

FA/382 FED-STD-H28/20

**Surface texture**

FA/439 ANSI/ASME B46.1

**Mechanical and Physical Testing and Inspection****Double shear of externally threaded fasteners**

FA/257 MIL-STD-1312-13

**Rockwell hardness of fasteners**

FA/201 MIL-STD-1312-6

**Stress rupture of fasteners**

FA/262 MIL-STD-1312-10

**Wedge tensile strength of full-size threaded fasteners**

FA/290 ASTM F606 Sec. 3.5

FA/295 MIL-STD-1312-8

**Metallography****Decarburization and case depth measurement in  
fasteners**

FA/323 ASTM E1077

**Determination of grain size of fasteners**

FA/331 ASTM E112

FA/550 ASTM E3

**Macroscopic examination of fasteners by etching**

FA/511 ASTM E340

FA/551 ASTM E3

**Microscopic examination of fasteners by etching**

FA/512 ASTM E407

FA/552 ASTM E3

**Nondestructive Inspection****Liquid penetrant inspection of fasteners**

FA/527 ASTM E1417

**Magnetic particle inspection of fasteners**

FA/485 ASTM E1444

**NVLAP LAB CODE 200226-0****Sugiura Seisakusho Co., Ltd.**

22, Miyakoshi, Terazu-cho

Nishio Aichi 444-03

JAPAN

Contact: Mr. Shigemitsu Shibata

Phone: 0563-59-0728

Fax: 0563-59-0744

E-Mail: sscshiba@mx01.tns.or.jp

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection****Dimensions of fasteners - gaging for slotted nuts**

FA/698 JIS B1170

FA/721 JIS B1071



*External thread parameters - ISO*

FA/676 JIS B1071

*Internal thread parameters - ISO*

FA/720 JIS B1071

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

*Measurement of fastener coating thickness - X-ray methods*

FA/641 JIS H8501

*Prevailing torque*

FA/600 JIS B1056

*Proof load of internally threaded fasteners (nuts)*

FA/601 JIS B1052

*Rockwell hardness of fasteners*

FA/572 JIS Z2245

*Salt spray testing of fasteners*

FA/598 JIS H8502

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/571 JIS Z2244

FA/643 JIS B1051 Sec. 4.2.5

FA/684 JIS B1052

*Wedge tensile strength of full-size threaded fasteners*

FA/575 JIS B1051 Sec. 4.2.3

*Metallography*

*Surface discontinuities of externally threaded fasteners*

FA/603 JIS B1043

FA/646 JIS B1041

*Surface discontinuities of internally threaded fasteners*

FA/604 JIS B1042

NVLAP LAB CODE 200227-0

**Owari Precise Products Co., Ltd.**

148 2-chome, Yada-cho, Higashi-ku

Nagoya 461-8678

JAPAN

Contact: Mr. Kouichi Furuichi

Phone: 052-721-7131

Fax: 052-723-2966

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code Designation

*Dimensional Inspection*

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/607 JIS B1071

FA/675 JIS B1012

*Surface texture*

FA/650 JIS B1071

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

*Measurement of fastener coating thickness - X-ray methods*

FA/641 JIS H8501

*Measurement of fastener coating thickness - microscopical method*

FA/640 JIS H8501

*Measurement of fastener coating thickness - weight of coating*

FA/619 JIS H8501

*Microhardness of fasteners*

FA/620 JIS Z2244

*Prevailing torque*

FA/600 JIS B1056

*Proof load of full-size externally threaded fasteners*

FA/573 JIS B1051 Sec. 4.2.4

*Proof load of internally threaded fasteners (nuts)*

FA/601 JIS B1052

FA/713 JIS B1056

*Rockwell hardness of fasteners*

FA/572 JIS Z2245

*Salt spray testing of fasteners*

FA/569 JIS Z2371

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/571 JIS Z2244

*Wedge tensile strength of full-size threaded fasteners*

FA/575 JIS B1051 Sec. 4.2.3

*Yield strength of full-size externally threaded fasteners*

FA/714 JIS Z2241

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/645 JIS B1051

*Surface discontinuities of externally threaded fasteners*

FA/603 JIS B1043

FA/646 JIS B1041

*Surface discontinuities of internally threaded fasteners*

FA/604 JIS B1042

NVLAP LAB CODE 200228-0

**Oak Ridge National Laboratory**

Bethel Valley Road

P.O. Box 2008

Oak Ridge, TN 37831-6292

Contact: Mr. Brian A. Jerome

Phone: 423-574-6167

Fax: 423-576-5070

E-Mail: jeromeba@ornl.gov

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

**NVLAP LAB CODE 200229-0**
**Minebea Co., Ltd. Fujisawa Manufacturing Unit**

1-1-1 Katase

Fujisawa, Kanagawa 251

JAPAN

Contact: Mr. Yukio Shimada

Phone: 0466-23-2137

Fax: 0466-27-6449

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

NVLAP

Code Designation

**Chemical Analysis**
*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FA/472 ASTM E1447

**Dimensional Inspection**
*Dimensions of fasteners - bearing surface squareness*

FA/649 JIS B1071

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/539 SAE AS 870

FA/790 SBAC RS680

*Dimensions of fasteners - straightness*

FA/648 JIS B1071

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/607 JIS B1071

FA/791 NAS 527

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

FA/380 FED-STD-H28/20A

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

FA/382 FED-STD-H28/20A

*External thread parameters - system 23*

FA/385 ANSI/ASME B1.3M

FA/386 FED-STD-H28/20A

*Surface texture*

FA/439 ANSI/ASME B46.1

FA/650 JIS B1071

FA/771 BS 1134, Part 1

**Mechanical and Physical Testing and Inspection**
*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/271 MIL-STD-1312-8

FA/574 JIS B1051 Sec. 4.2.2

*Double shear of externally threaded fasteners*

FA/257 MIL-STD-1312-13

*Elevated temperature testing capability*

FA/505 MIL-STD-1312-18

*Fatigue of full-size threaded fasteners*

FA/183 MIL-STD-1312-11

**Hardness preparation**

FA/482 ASTM F606

**Head soundness testing**

FA/615 JIS B1051 Sec. 4.2.6

**Humidity testing of fasteners**

FA/170 QQ-P-35

**Measurement of fastener coating thickness - dimensional change method**

FA/495 MIL-STD-1312-12

**Measurement of fastener coating thickness - eddy-current method**

FA/618 JIS H8501

**Measurement of fastener coating thickness - microscopical method**

FA/163 MIL-STD-1312-12

FA/640 JIS H8501

**Measurement of fastener coating thickness - weight of coating**

FA/619 JIS H8501

**Microhardness of fasteners**

FA/193 MIL-STD-1312-6

FA/620 JIS Z2244

FA/642 JIS B1051 Sec. 4.2.5

**Proof load of full-size externally threaded fasteners**

FA/573 JIS B1051 Sec. 4.2.4

**Recess strength test in both the installation and removal directions**

FA/476 MIL-STD-1312-25

**Rockwell hardness of fasteners**

FA/197 ASTM E18

FA/201 MIL-STD-1312-6

FA/572 JIS Z2245

FA/707 JIS B1051 Sec. 4.2.5

FA/765 BS EN 10109-1

**Rockwell superficial hardness of fasteners**

FA/205 ASTM E18

FA/209 MIL-STD-1312-6

FA/766 BS EN 10109-1

**Salt spray testing of fasteners**

FA/166 ASTM B117

FA/168 MIL-STD-1312-1

FA/569 JIS Z2371

**Stress rupture of fasteners**

FA/260 ASTM E139

FA/767 BS 4A 4,Part 1,Sec 3

**Tension testing of machined specimens from externally threaded fasteners**

FA/581 JIS B1051 Sec. 4.2.1

FA/582 JIS Z2241

FA/768 BS 4A 4,Part 1,Sec 1

**Wedge tensile strength of full-size threaded fasteners**

FA/290 ASTM F606 Sec. 3.5

FA/575 JIS B1051 Sec. 4.2.3

**Metallography**
**Decarburization and case depth measurement in fasteners**

FA/645 JIS B1051

FA/692 MIL-STD-1312-6

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Determination of grain size of fasteners**

FA/331 ASTM E112

**Macroscopic examination of fasteners by etching**

FA/511 ASTM E340

FA/769 AMS 7477

FA/780 SBAC TS21

FA/782 SBAC TS22

FA/783 SBAC TS23

FA/786 SBAC TS24

FA/787 SBAC TS25

**Microscopic examination of fasteners by etching**

FA/512 ASTM E407

FA/770 AMS 7477

FA/781 SBAC TS21

FA/784 SBAC TS22

FA/785 SBAC TS23

FA/788 SBAC TS24

FA/789 SBAC TS25

**Surface discontinuities of externally threaded fasteners**

FA/603 JIS B1043

FA/646 JIS B1041

**Nondestructive Inspection****Liquid penetrant inspection of fasteners**

FA/371 MIL-STD-6866

FA/527 ASTM E1417

**Magnetic particle inspection of fasteners**

FA/377 MIL-STD-1949

FA/485 ASTM E1444

**NVLAP LAB CODE 200230-0****Wolverine Plating Corp.**

29456 Groesbeck Highway

Roseville, MI 48066-1943

Contact: Mr. Kenneth Wrobel

Phone: 810-771-5000

Fax: 810-771-5830

E-Mail: wolvp1tg@aol.com

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**Mechanical and Physical Testing and Inspection****Adhesion of metallic coatings on fasteners**

FA/143 ASTM B571

**Measurement of fastener coating thickness - X-ray methods**

FA/556 ASTM B568

**Salt spray testing of fasteners**

FA/166 ASTM B117

**NVLAP LAB CODE 200231-0****U.S. EPA**

P.O. Box 98517

Las Vegas, NV 89193-8517

Contact: Mr. Christopher Fontana

Phone: 702-798-2429

Fax: 702-733-8013

E-Mail: fontana-chris@wpmail.las.wpa.gov

**Ionizing Radiation Dosimetry**

Accreditation Valid Through: December 31, 1999

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing the Panasonic automatic reader model UD710A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI HPS N13.11-1993.

Panasonic TLD model UD802AT in a UD874 holder for ANSI-N13.11 categories I, II, IIIA, IV, VC, VI, VII.

**NVLAP LAB CODE 200232-0****LA Testing**

159 Pasadena Avenue

S. Pasadena, CA 91030

Contact: Ms. Cristina E. Tabatt

Phone: 323-254-9960

Fax: 323-254-9982

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

**NVLAP LAB CODE 200233-0****SGI EMC Laboratories**

P.O. Box 7311

2011 N. Shoreline Blvd., MS 946

Mountain View, CA 94039

Contact: Mr. David M. Hanttula

Phone: 650-933-1071

Fax: 650-932-0250

E-Mail: hanttula@enr.sgi.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

***International Special Committee on Radio Interference  
(CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

---

**NVLAP LAB CODE 200234-0**

**International Standards Laboratory**

21, Alley 37, Lane 122, Sec. 2

Hsiwan Road

Hsichih Chen, Taipei 221

TAIWAN

Contact: Mr. Jammy Chen

Phone: 886-2-2646-2550

Fax: 886-2-2646-4641

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

***NVLAP***

*Code      Designation*

***Australian Standards referred to by clauses in AUSTEL  
Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

***International Special Committee on Radio Interference  
(CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

---

**NVLAP LAB CODE 200236-0**

**Accredited Environmental Technologies, Inc.**

State Road 1426

Leland, NC 28451

Contact: Mr. Peter J. Burke

Phone: 910-371-4620

Fax: 910-371-4908

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

---

**NVLAP LAB CODE 200237-0**

**Compliance Test Laboratories, Inc.**

137 Airport Road

P.O. Box 120

Liberty, SC 29657

Contact: Mr. Pryor McGinnis

Phone: 864-843-1604

Fax: 864-843-1812

E-Mail: ctl@prodigy.net

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

***NVLAP***

*Code      Designation*

***Australian Standards referred to by clauses in AUSTEL  
Technical Standards***

12/T50 AS/NZS 3260

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

***International Special Committee on Radio Interference  
(CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

---

**NVLAP LAB CODE 200239-0**

**Meidoh Laboratory**

4-5 Sangen-Cho

Toyota, Aichi 471-0037

JAPAN

Contact: Mr. Satoki Akiba

Phone: 0565-31-0330

Fax: 0565-31-2153

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

***NVLAP***

*Code      Designation*

***Dimensional Inspection***

***External thread parameters - system 21***

FA/647 JIS B1071

***Internal thread parameters - system 21***

FA/623 JIS B1071

***Mechanical and Physical Testing and Inspection***

***Axial tensile strength of full-size threaded fasteners***

FA/574 JIS B1051 Sec. 4.2.2



*Measurement of fastener coating thickness - magnetic methods*

FA/596 JIS H8501

*Measurement of fastener coating thickness - microscopical method*

FA/640 JIS H8501

*Microhardness of fasteners*

FA/620 JIS Z2244

FA/642 JIS B1051 Sec. 4.2.5

*Proof load of internally threaded fasteners (nuts)*

FA/601 JIS B1052

*Salt spray testing of fasteners*

FA/598 JIS H8502

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/571 JIS Z2244

FA/684 JIS B1052

FA/952 JIS Z2251

*Wedge tensile strength of full-size threaded fasteners*

FA/575 JIS B1051 Sec. 4.2.3

NVLAP LAB CODE 200240-0

**CAM Environmental Services, Inc.**

312 South Richey Street  
Pasadena, TX 77506-1059  
Contact: Ms. Julia A. Terrell  
Phone: 713-475-9003  
Fax: 713-472-2117  
E-Mail: camenviro@earthlink.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200242-0

**Topura Co., Ltd. Osaka**

4-10-2 Kisabe-Minami  
Katano, Osaka 576-0035  
JAPAN  
Contact: Mr. Katsuzo Fujihira  
Phone: 0463-82-4179  
Fax: 0463-82-6169

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

*Dimensional Inspection*

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/607 JIS B1071

FA/675 JIS B1012

FA/682 JASO F116

*External thread parameters - ISO*

FA/676 JIS B1071

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

FA/672 JIS B1054

*Embrittlement test of washers*

FA/673 JIS B1252

*Head soundness testing*

FA/615 JIS B1051 Sec. 4.2.6

*Measurement of fastener coating thickness - eddy-current method*

FA/618 JIS H8501

*Measurement of fastener coating thickness - weight of coating*

FA/619 JIS H8501

*Microhardness of fasteners*

FA/620 JIS Z2244

*Proof load of full-size externally threaded fasteners*

FA/573 JIS B1051 Sec. 4.2.4

*Recovery test of washers*

FA/674 JIS B1252

FA/677 JIS B1251

*Rockwell hardness of fasteners*

FA/707 JIS B1051 Sec. 4.2.5

*Salt spray testing of fasteners*

FA/569 JIS Z2371

FA/598 JIS H8502

*Twist test of lock washers*

FA/678 JIS B1251

*Wedge tensile strength of full-size threaded fasteners*

FA/575 JIS B1051 Sec. 4.2.3

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/645 JIS B1051

*Surface discontinuities of externally threaded fasteners*

FA/603 JIS B1043

FA/646 JIS B1041

NVLAP LAB CODE 200243-0

**Topura Co., Ltd. Tokai**

2158-96 Kaizan, Aza Shiobara Shinden  
Hamaoka-cho  
Ogasagun, Shizuoka 437-1614  
JAPAN  
Contact: Mr. Katsuzo Fujihira  
Phone: 0463-82-4179  
Fax: 0463-82-6169

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

Code Designation

*Dimensional Inspection*

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/607 JIS B1071

FA/675 JIS B1012

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

FA/682 JASO F116

**External thread parameters - ISO**

FA/676 JIS B1071

**Mechanical and Physical Testing and Inspection****Axial tensile strength of full-size threaded fasteners**

FA/574 JIS B1051 Sec. 4.2.2

FA/672 JIS B1054

**Embrittlement test of washers**

FA/673 JIS B1252

**Head soundness testing**

FA/615 JIS B1051 Sec. 4.2.6

**Measurement of fastener coating thickness - eddy-current method**

FA/618 JIS H8501

**Measurement of fastener coating thickness - weight of coating**

FA/619 JIS H8501

**Microhardness of fasteners**

FA/620 JIS Z2244

**Proof load of full-size externally threaded fasteners**

FA/573 JIS B1051 Sec. 4.2.4

**Recovery test of washers**

FA/674 JIS B1252

FA/677 JIS B1251

**Rockwell hardness of fasteners**

FA/707 JIS B1051 Sec. 4.2.5

**Salt spray testing of fasteners**

FA/569 JIS Z2371

FA/598 JIS H8502

**Twist test of lock washers**

FA/678 JIS B1251

**Wedge tensile strength of full-size threaded fasteners**

FA/575 JIS B1051 Sec. 4.2.3

**Metallography****Decarburization and case depth measurement in fasteners**

FA/645 JIS B1051

**Surface discontinuities of externally threaded fasteners**

FA/603 JIS B1043

FA/646 JIS B1041

**NVLAP LAB CODE 200244-0****Oak Ridge National Laboratory Electric Machinery Center**

P.O. Box 2009

Oak Ridge, TN 37831-8038

Contact: Mr. John Kueck

Phone: 423-576-4454

Fax: 423-576-0493

E-Mail: KU5@ornl.gov

**Efficiency of Electric Motors**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

24/M01	IEEE 112, Method B
--------	--------------------

**NVLAP LAB CODE 200245-0****RheinTexas, Inc.**

1701 East Plano Parkway, Suite 150

Plano, TX 75074-8127

Contact: Mr. Murrell Waldron

Phone: 972-509-2566

Fax: 972-509-0073

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200246-0****Underwriters Laboratories, Inc.**

12 Laboratory Drive

Research Triangle Park, NC 27709

Contact: Mr. James R. Beyreis

Phone: 847-272-8800

Fax: 847-272-8129

E-Mail: beyreisj@ul.com

URL: <http://www.ul.com>**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200247-0

**EMSL Analytical, Inc.**

4037 E. Independence Blvd., Suite 630  
Charlotte, NC 28205  
Contact: Mr. Ronald K. Mahoney  
Phone: 704-567-1521  
Fax: 704-567-1394

URL: <http://www.emsl.com/>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200248-0

**Orfield Laboratories, Inc.**

2709 E. 25th Street  
Minneapolis, MN 55406  
Contact: Mr. Steven J. Orfield  
Phone: 612-721-2455  
Fax: 612--721-2457

**Acoustical Testing Services**

Accreditation Valid Through: June 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
08/P03	ASTM C423 (ISO 354)
08/P06	ASTM E90 (ISO 140, Part 3)
08/P10	ANSI S12.31 (ISO 3741)
08/P21	ISO 3745
08/P30	ASTM E1408
08/P31	ASTM E336
08/P32	ASTM E1007
08/P37	ASTM E966

NVLAP LAB CODE 200249-0

**Quest MicroAnalytics, Inc.**

2530 Electronic Lane, Suite 712  
Dallas, TX 75220-1229  
Contact: Ms. Jennifer Jaber  
Phone: 214-351-4441  
Fax: 214-351-4487

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200250-0

**ATC Associates Inc.**

8989 Herrmann Drive  
Columbia, MD 21045-4710  
Contact: Dr. Bharatha Lakshmi  
Phone: 410-381-0232  
Fax: 410-381-8908  
E-Mail: [lakshmi9@atc-enviro.com](mailto:lakshmi9@atc-enviro.com)

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200251-0

**Storagtek Open Area Test Site**

2270 So. 88th Street, MS-9172  
Louisville, CO 80028-9172  
Contact: Mr. Robert B. Reinert  
Phone: 303-673-6256  
Fax: 303-661-6717  
E-Mail: [reinerb@louisville.storagtek.com](mailto:reinerb@louisville.storagtek.com)

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
<i>Australian Standards referred to by clauses in AUSTEL</i>	
<i>Technical Standards</i>	
12/T51	AS/NZS 3548
<i>Federal Communications Commission (FCC) Methods</i>	
12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions
<i>International Special Committee on Radio Interference (CISPR) Methods</i>	
12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200252-0

**Underwriters Laboratories**

1655 Scott Blvd.  
Santa Clara, CA 95050  
Contact: Mr. Rick A. Titus  
Phone: 847-272-8800 x43281  
Fax: 847-509-6219  
E-Mail: [titusr@ul.com](mailto:titusr@ul.com)  
URL: <http://www.ul.com>

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued*****AUSTEL Technical Standards as determined under the Telecommunications Act of 1991***

12/T41 TS-001  
12/T42 TS-002  
12/T44 TS-004  
12/T45 TS-006

***Australian Standards referred to by clauses in AUSTEL Technical Standards***

12/T50 AS/NZS 3260  
12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions  
12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital  
12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.; 68.312 On-hook impedance limit.; 68.314 Billing protection  
12/T01b 68.316 Hearing Aid Compatibility: technical standards  
12/T01c 68.302 Environmental simulation (Par. a,b)

***International Special Committee on Radio Interference (CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200253-0****CBS Fasteners, Inc.**

1345 N. Brasher Street  
Anaheim, CA 92807  
Contact: Mr. Bill Sisler  
Phone: 714-779-6368  
Fax: 714-779-0934

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Dimensional Inspection*****Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets***

FA/411 ANSI/ASME B18.3

***Dimensions of fasteners - straightness***

FA/423 ANSI/ASME B18.2.1

***Dimensions of general purpose fasteners and high-volume machine assembly fasteners***

FA/404 ANSI/ASME B18.18.2M

***External thread parameters - system 22***

FA/382 FED-STD-H28/20

***Surface texture***

FA/439 ANSI/ASME B46.1

***Mechanical and Physical Testing and Inspection******Axial tensile strength of full-size threaded fasteners***

FA/271 MIL-STD-1312-8

***Double shear of externally threaded fasteners***

FA/257 MIL-STD-1312-13

***Hydrogen embrittlement (stress durability) of externally threaded fasteners***

FA/176 MIL-STD-1312-5

***Magnetic permeability***

FA/214 ASTM A342 Test Method 3

***Measurement of fastener coating thickness - dimensional change method***

FA/495 MIL-STD-1312-12

***Measurement of fastener coating thickness - microscopical method***

FA/163 MIL-STD-1312-12

***Microhardness of fasteners***

FA/193 MIL-STD-1312-6

***Recess strength test in both the installation and removal directions***

FA/476 MIL-STD-1312-25

***Rockwell hardness of fasteners***

FA/201 MIL-STD-1312-6

***Rockwell superficial hardness of fasteners***

FA/209 MIL-STD-1312-6

***Single shear of externally threaded fasteners***

FA/256 MIL-STD-1312-20

***Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)***

FA/671 MIL-STD-1312-6

***Wedge tensile strength of full-size threaded fasteners***

FA/295 MIL-STD-1312-8

***Metallography******Decarburization and case depth measurement in fasteners***

FA/330 SAE J423

FA/483 ASTM A574 Sec. 12

***Determination of grain size of fasteners***

FA/638 ASTM E112

***Macroscopic examination of fasteners by etching***

FA/511 ASTM E340

FA/651 ASTM F788/788M

***Microscopic examination of fasteners by etching***

FA/341 ASTM E1077

FA/345 ASTM F788/788M

FA/351 ASTM E112

FA/512 ASTM E407

FA/552 ASTM E3

FA/679 ASTM A574

***Surface discontinuities of externally threaded fasteners***

FA/357 ASTM F788/788M



NVLAP LAB CODE 200254-0

**Vermont Fasteners Manufacturing**

50 Jonergin Drive  
P.O. Box 50  
Swanton, VT 05488-0050  
Contact: Mr. Peter F. Kasper  
Phone: 802-868-3663  
Fax: 802-868-2089

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

**Dimensional Inspection**

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/403 ANSI/ASME B18.18.1M

FA/404 ANSI/ASME B18.18.2M

FA/494 ANSI B18.2.1

*Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap*

FA/405 ANSI/ASME B18.18.3M

FA/963 ANSI B18.2.1

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

*Internal thread parameters - system 22*

FA/393 ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/265 ASTM A370 Sec. A3.2.1.4

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/273 SAE J429

*Brinell hardness of fasteners*

FA/185 ASTM A370 Sec. 16

FA/186 ASTM E10

*Cone proof load of internally threaded fasteners (nuts)*

FA/219 ASTM F812/F812M

FA/220 ASTM F606 Sec. 4.3

FA/655 ASTM A194/A194M

*Hardness preparation*

FA/482 ASTM F606

*Measurement of fastener coating thickness - eddy-current method*

FA/149 ASTM E376

*Measurement of fastener coating thickness - magnetic methods*

FA/155 ASTM E376

*Microhardness of fasteners*

FA/654 SAE J121

*Proof load of full-size externally threaded fasteners*

FA/225 ASTM A370 Sec. A3.2.1.1-A3.2.1.3

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/467 ASTM F606M Sec. 3.2.1-3.2.3

*Proof load of internally threaded fasteners (nuts)*

FA/235 ASTM A370 Sec. A3.5.1

FA/236 ASTM F606 Sec. 4.2

FA/237 ASTM F606M Sec. 4.2

*Rockwell hardness of fasteners*

FA/196 ASTM A370 Sec. 18

FA/197 ASTM E18

*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18

FA/206 ASTM A370 Sec. 18

*Rotational capacity of full-size fasteners*

FA/243 ASTM A325

FA/245 ASTM A563

FA/965 AASHTO M164

*Wedge tensile strength of full-size threaded fasteners*

FA/289 ASTM A370

FA/290 ASTM F606 Sec. 3.5

FA/291 ASTM F606M Sec. 3.5

FA/468 SAE J429 Sec. 5.5

**Metallography**

*Decarburization and case depth measurement in fasteners*

FA/328 SAE J121

FA/964 ASTM A490

*Macroscopic examination of fasteners by etching*

FA/336 SAE J123

FA/337 SAE J1061

FA/651 ASTM F788/788M

*Microscopic examination of fasteners by etching*

FA/344 SAE J121

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788/788M

FA/361 SAE J123

FA/362 SAE J1061

FA/652 ASTM A490

*Surface discontinuities of internally threaded fasteners*

FA/363 ASTM F812

FA/365 SAE J122

**Nondestructive Inspection**

*Magnetic particle inspection of fasteners*

FA/374 ASTM E709

NVLAP LAB CODE 200255-0

**Rockford Bolt & Steel Co.**

126 Mill Street  
Rockford, IL 61101  
Contact: Mr. John Petty  
Phone: 815-968-0514  
Fax: 815-968-3111

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Dimensional Inspection**

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

*Hardness preparation*

FA/482 ASTM F606

*Rockwell hardness of fasteners*

FA/202 SAE J417

*Tension testing of machined specimens from externally threaded fasteners*

FA/278 ASTM A370

FA/279 ASTM F606 Sec. 3.6

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

FA/299 ASTM A370 Sec. A3.2.1.3(a)

NVLAP LAB CODE 200256-0

**Sundram Fasteners Limited Chemical Testing Laboratory**

Bonthapally Village, Medak District

Andhra Pradesh 502 313

INDIA

Contact: Mr. Sampathkumar Moorthy

Phone: 91-44-8521870

Fax: 91-44-853-5435

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

**Chemical Analysis**

*Optical emission spectrochemical analysis*

FA/457 ASTM E415

NVLAP LAB CODE 200257-0

**Asakawa Screw Co., Ltd. Kawawa Factory**

1261 Nippa-cho Kohoku-ku

Yokohama 223

JAPAN

Contact: Mr. Tatsuhiko Asakawa

Phone: 045-531-1291

Fax: 045-543-7752

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Dimensional Inspection**

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/697 JIS B1180

*Internal thread parameters - ISO*

FA/696 JIS B1181

**Mechanical and Physical Testing and Inspection**

*Measurement of fastener coating thickness - X-ray methods*

FA/641 JIS H8501

*Salt spray testing of fasteners*

FA/569 JIS Z2371

NVLAP LAB CODE 200258-0

**W.R. Grace & Co.**

62 Whittemore Avenue

Cambridge, MA 02140

Contact: Mr. James A. Lee

Phone: 617-498-4394

Fax: 617-498-4360

E-Mail: james.a.lee@grace.com

**Construction Materials Testing**

Accreditation Valid Through: December 31, 1999

NVLAP

Code Designation

**Aggregates**

02/A03 ASTM C29

02/A04 ASTM C40

02/A07 ASTM C117

02/A09 ASTM C127

02/A10 ASTM C128

02/A12 ASTM C136

02/A15 ASTM D75

02/A44 ASTM C566

**Cement**

02/A17 ASTM C109

02/A21 ASTM C157

02/A23 ASTM C185

02/A26 ASTM C191

02/A27 ASTM C204

02/A30 ASTM C266

02/A31 ASTM C305

02/A32 ASTM C430

02/A33 ASTM C451

**Concrete**

02/A01 ASTM C39

02/A02 ASTM C617

02/A40 ASTM C78

02/A41 ASTM C192

02/A43 ASTM C1064

02/A45 ASTM C42

02/A47 ASTM C457

02/G01 ASTM C31/C172/C143/C138/C231

02/G02 ASTM C173

**Standard Practices**

02/A39 ASTM C1077

**NVLAP LAB CODE 200259-0**

**PFU TECHNOCONSUL EMC Center**

98-2 Nu, Unoke, Unoke-Machi, Kahoku-Gun

Ishikawa-Ken 929-1192

JAPAN

Contact: Mr. Yasuo Koyama

Phone: 81-76-283-8600

Fax: 81-76-283-8601

E-Mail: ykoyama@pfu.co.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL**

**Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference**

**(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200260-0**

**Analab, LLC**

P.O. Box 34

Spring Hill Road

Sterling, PA 18463

Contact: Mr. Paul Janecki

Phone: 717-689-3919

Fax: 717-689-3830

E-Mail: info@analab1.com

URL: http://www.analab1.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200261-0**

**Prottsa, S.A. de C.V.**

Oriente 233 No. 91 Agricola Oriental

C.P. 08500

Mexico City

MEXICO

Contact: Mr. Gilberto Laguna

Phone: 5-558-85-77

Fax: 5-558-25-23

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Dimensional Inspection**

**Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

FA/403 ANSI/ASME B18.18.1M

FA/981 ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection**

**Axial tensile strength of full-size threaded fasteners**

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

**Bend test of full size eyebolts**

FA/982 AAR 4-2-15 Section 8 (1969)

**Cone proof load of internally threaded fasteners (nuts)**

FA/220 ASTM F606 Sec. 4.3

**Hardness preparation**

FA/482 ASTM F606

**Measurement of fastener coating thickness - magnetic methods**

FA/153 ASTM B499

**Proof load of full-size externally threaded fasteners**

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/983 AAR 4-2-15 Section 9 (1969)



*Proof load of internally threaded fasteners (nuts)*

FA/235 ASTM A370 Sec. A3.5.1

FA/236 ASTM F606 Sec. 4.2

*Rockwell hardness of fasteners*

FA/196 ASTM A370 Sec. 18

*Tension testing of machined specimens from externally threaded fasteners*

FA/279 ASTM F606 Sec. 3.6

*Torque-tension of full-size threaded fasteners*

FA/984 AAR 4-2-15 Section 13b (1969)

FA/985 ASTM A183 Section 8.2.2

FA/986 Prottsa W.I. I.030 rev. b

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

NVLAP LAB CODE 200263-0

**Electro. Meas. Off., Yokohama Res. & Dev. Ctr.**

**Murata Mfg. Co.**

Yokohama Research & Development Center  
1-18 Hakusan 1-Chome, Midori-ku Yokohama  
Kanagawa 226

JAPAN

Contact: Mr. Yuji Nishimura

Phone: 045-939-7100

Fax: 045-939-7156

E-Mail: nishimura@murata.co.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200264-0

**3V Fasteners Co. Inc. Testing Laboratory**

1821 Railroad Street

Corona, CA 91720

Contact: Mr. Wayne C. Drysol

Phone: 909-734-4391

Fax: 909-734-0127

E-Mail: threel@comcast.net

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Dimensional Inspection*

*Dimensions of fasteners - bearing surface squareness*

FA/695 3V LTI-100-1

*Dimensions of fasteners - straightness*

FA/694 3V LTI-100-1

*External thread parameters - SAE fastener with MJ  
metric screw threads*

FA/693 FED-STD-H28/20

*External thread parameters - system 22*

FA/382 FED-STD-H28/20

*External thread parameters - system 23*

FA/386 FED-STD-H28/20

*Surface texture*

FA/439 ANSI/ASME B46.1

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/271 MIL-STD-1312-8

*Double shear of externally threaded fasteners*

FA/257 MIL-STD-1312-13

*Hydrogen embrittlement (stress durability) of externally  
threaded fasteners*

FA/176 MIL-STD-1312-5

*Magnetic permeability*

FA/214 ASTM A342 Test Method 3

*Measurement of fastener coating thickness - dimensional  
change method*

FA/495 MIL-STD-1312-12

*Measurement of fastener coating thickness - magnetic  
methods*

FA/156 FED TM STD NO. 151 Method 520.1

*Measurement of fastener coating thickness -  
microscopical method*

FA/163 MIL-STD-1312-12

*Microhardness of fasteners*

FA/193 MIL-STD-1312-6

*Proof load of full-size externally threaded fasteners*

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/691 MIL-STD-1312-8

*Recess strength test in both the installation and removal  
directions*

FA/476 MIL-STD-1312-25



**Rockwell hardness of fasteners**

FA/201 MIL-STD-1312-6

**Rockwell superficial hardness of fasteners**

FA/205 ASTM E18

**Tension testing of machined specimens from externally threaded fasteners**

FA/279 ASTM F606 Sec. 3.6

FA/526 MIL-STD-1312-8

**Wedge tensile strength of full-size threaded fasteners**

FA/290 ASTM F606 Sec. 3.5

FA/295 MIL-STD-1312-8

**Metallography**

**Decarburization and case depth measurement in fasteners**

FA/483 ASTM A574 Sec. 12

FA/519 ASTM A574M

FA/692 MIL-STD-1312-6

**Determination of grain size of fasteners**

FA/331 ASTM E112

**Macroscopic examination of fasteners by etching**

FA/511 ASTM E340

FA/651 ASTM F788/788M

**Microscopic examination of fasteners by etching**

FA/341 ASTM E1077

FA/345 ASTM F788/788M

FA/346 ASTM F788/788M

FA/351 ASTM E112

FA/512 ASTM E407

FA/552 ASTM E3

FA/679 ASTM A574

**Surface discontinuities of externally threaded fasteners**

FA/357 ASTM F788/788M

NVLAP LAB CODE 200265-0

**R & D Services, Inc.**

2594 West Broad Street

P.O. Box 2400

Cookeville, TN 38502-2400

Contact: Mr. Ronald S. Graves

Phone: 931-372-8871

Fax: 931-525-3896

E-Mail: rdserv@usit.net

URL: http://rdservices.com

**Thermal Insulation Materials**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Corrosiveness**

01/C01 ASTM C739 (Sec. 9)

01/C02 16 CFR-Part 1209.5

**Flammability**

01/F08 16 CFR-Part 1209.7

01/F10 ASTM C739 (Sec. 14)

**Mass, Density, and Dimensional Stability**

01/D02 ASTM C167

01/D26 16 CFR-Part 1209.4

01/D27 ASTM C739 (Sec. 8)

**Related Material Properties**

01/V05 ASTM C739 (Sec. 11)

01/V06 ASTM C739 (Sec. 15)

**Thermal Resistance**

01/T06 ASTM C518

01/T10 ASTM C687

NVLAP LAB CODE 200266-0

**Aerospace Rivet Manufacturers Corp.**

8535 Dice Road

Santa Fe Springs, CA 90670-2509

Contact: Mr. Caesar Bansil

Phone: 562-945-5456

Fax: 562-696-6398

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

**Dimensional Inspection**

**Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

FA/403 ANSI/ASME B18.18.1M

**Mechanical and Physical Testing and Inspection**

**Axial tensile strength of full-size threaded fasteners**

FA/271 MIL-STD-1312-8

**Double shear of externally threaded fasteners**

FA/257 MIL-STD-1312-13

**Magnetic permeability**

FA/214 ASTM A342 Test Method 3

**Measurement of fastener coating thickness - microscopical method**

FA/160 ASTM B487

FA/163 MIL-STD-1312-12

**Microhardness of fasteners**

FA/189 ASTM E384

**Recess strength test in both the installation and removal directions**

FA/476 MIL-STD-1312-25

**Rockwell hardness of fasteners**

FA/201 MIL-STD-1312-6

**Salt spray testing of fasteners**

FA/166 ASTM B117

FA/168 MIL-STD-1312-1

**Single shear of externally threaded fasteners**

FA/256 MIL-STD-1312-20

**Water immersion method - test for anodic surface containment on corrosion resistant fasten**

FA/756 MIL-STD-753 Test 100

**Metallography**

**Determination of grain size of fasteners**

FA/638 ASTM E112

**Microscopic examination of fasteners by etching**

FA/351 ASTM E112

*Nondestructive Inspection*

*Liquid penetrant inspection of fasteners*

FA/527 ASTM E1417

*Magnetic particle inspection of fasteners*

FA/485 ASTM E1444

NVLAP LAB CODE 200267-0

**Multifastener Laboratory**

22100 Trolley Industrial Drive

Taylor, MI 48180

Contact: Ms. Michele Stawowy

Phone: 313-299-1178

Fax: 313-299-1190

E-Mail: stawowym@aol.com

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/265 ASTM A370 Sec. A3.2.1.4

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/267 ASTM F606M Sec. 3.4.1-3.4.3

FA/270 ISO 898-1 Sec. 8.2

FA/273 SAE J429

FA/274 SAE J1216

*Prevailing torque*

FA/216 ANSI B18.16.1M

FA/218 ISO 2320

*Proof load of full-size externally threaded fasteners*

FA/225 ASTM A370 Sec. A3.2.1.1-A3.2.1.3

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/228 ISO 898-1 Sec. 8.4

FA/229 SAE J429 Sec. 5.3

FA/230 SAE J1216 Sec. 3.3

FA/467 ASTM F606M Sec. 3.2.1-3.2.3

*Proof load of internally threaded fasteners (nuts)*

FA/235 ASTM A370 Sec. A3.5.1

FA/236 ASTM F606 Sec. 4.2

FA/237 ASTM F606M Sec. 4.2

FA/239 ISO 898-2 Sec. 8.1

FA/240 ISO 898-6 Sec. 8.1

FA/241 SAE J995 Sec. 5.1

FA/242 SAE J1216 Sec. 4.2

*Rockwell hardness of fasteners*

FA/196 ASTM A370 Sec. 18

FA/197 ASTM E18

FA/200 ISO 6508

FA/202 SAE J417

*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18

FA/206 ASTM A370 Sec. 18

FA/208 ISO 1024

FA/210 SAE J417

*Test for embrittlement of metallic coated externally threaded fasteners*

FA/179 ASTM F606 Sec. 7

FA/180 ASTM F606M Sec. 7

NVLAP LAB CODE 200268-0

**The Monadnock Company**

18301 East Arenth Avenue

City of Industry, CA 91748-1288

Contact: Mr. Belen Guevara

Phone: 818-964-6581

Fax: 818-965-5481

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Dimensional Inspection*

*Dimensions of fasteners - bearing surface squareness*

FA/633 MIL-N-25027

*External thread parameters - system 21*

FA/380 FED-STD-H28/20A

*External thread parameters - system 22*

FA/382 FED-STD-H28/20A

*External thread parameters - system 23*

FA/386 FED-STD-H28/20A

*Internal thread parameters - system 21*

FA/392 FED-STD-H28/20A

*Internal thread parameters - system 22*

FA/394 FED-STD-H28/20A

*Internal thread parameters - system 23*

FA/398 FED-STD-H28/20A

*Surface texture*

FA/439 ANSI/ASME B46.1

*Mechanical and Physical Testing and Inspection*

*Adhesion of metallic coatings on fasteners*

FA/779 BSS7225

*Axial tensile strength of full-size threaded fasteners*

FA/271 MIL-STD-1312-8

FA/757 MIL-STD-1312-23

*Compression load of compressible-washer-type direct tension indicators*

FA/778 BACW10CA

*Copper sulfate test - test for free iron on the surface of corrosion resistant fasteners*

FA/636 MIL-STD-753 Test 102

*Hydrogen embrittlement (stress durability) of internally threaded fasteners*

FA/178 MIL-STD-1312-14

FA/772 BACN10YD

FA/773 BACN10FX

FA/888 BACN11K

*Magnetic permeability*

FA/214 ASTM A342 Test Method 3

*Measurement of fastener coating thickness - eddy-current method*

FA/148 ASTM B244

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Measurement of fastener coating thickness -  
microscopical method**

FA/160 ASTM B487

**Microhardness of fasteners**

FA/193 MIL-STD-1312-6

**Prevailing torque**

FA/630 MIL-N-25027

**Reusability test of self-locking internally threaded  
fasteners**

FA/124 MIL-N-25027

FA/774 BPS-N-70

**Rockwell hardness of fasteners**

FA/201 MIL-STD-1312-6

**Rockwell superficial hardness of fasteners**

FA/209 MIL-STD-1312-6

**Torque-out test**

FA/133 MIL-N-25027

FA/775 BACN10YD

FA/776 BACN10VR

FA/777 BACN10FX

FA/887 BACN11K

**Water immersion method - test for anodic surface  
containment on corrosion resistant fasten**

FA/756 MIL-STD-753 Test 100

**Wrench torque test of externally wrenching nuts of spline  
and hexagon and double hexagon (1**

FA/141 MIL-N-25027

**NVLAP LAB CODE 200271-0****Aerospace NYLOK - a subsidiary of the NYLOK  
Fastener Corporation**

11 Thomas Road South  
Hawthorne, NJ 07507-0651  
Contact: Mr. Chet Radwan  
Phone: 973-427-8555  
Fax: 973-427-4723

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection****Dimensions of special purpose fasteners and fasteners for  
highly specialized engineered ap**

FA/805 MIL-DTL-18240

FA/806 MIL-F-18240

**Mechanical and Physical Testing and Inspection****Prevailing torque**

FA/217 IFI-100/107

FA/794 MIL-DTL-18240

FA/795 IFI 124

FA/796 MIL-F-18240

FA/797 IFI 125

FA/798 IFI 524

FA/833 IFI 525

**Reusability test of self-locking internally threaded  
fasteners**FA/792 MIL-F-18240 (externally and internally  
threaded)FA/793 MIL-DTL-18240 (externally and internally  
threaded)**NVLAP LAB CODE 200272-0****NYLOK Fastener Corporation**

313 North Euclid Way  
Anaheim, CA 92801-6738  
Contact: Mr. Maynard Axvig  
Phone: 714-635-3993  
Fax: 714-635-9553

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection****Dimensions of special purpose fasteners and fasteners for  
highly specialized engineered ap**

FA/802 NYLOK TP-NW-5.0

**External thread parameters - system 21**

FA/379 ANSI/ASME B1.3M

FA/380 FED-STD-H28/20A

**External thread parameters - system 22**

FA/381 ANSI/ASME B1.3M

FA/382 FED-STD-H28/20A

FA/383 MIL-S-7742

FA/384 MIL-S-8879

FA/534 SAE AS 8879

FA/803 ASME B1.15

**Internal thread parameters - system 21**

FA/391 ANSI/ASME B1.3M

FA/392 FED-STD-H28/20A

**Internal thread parameters - system 22**

FA/393 ANSI/ASME B1.3M

FA/394 FED-STD-H28/20A

FA/395 MIL-S-7742

FA/396 MIL-S-8879

FA/537 SAE AS 8879

FA/804 ASME B1.15

**Mechanical and Physical Testing and Inspection****Axial tensile strength of full-size threaded fasteners**

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/799 NASM 1312-8

**Hydrogen embrittlement (stress durability) of externally  
threaded fasteners**

FA/801 QQ-P-416

**Hydrogen embrittlement (stress durability) of internally  
threaded fasteners**

FA/800 QQ-P-416

**Prevailing torque**

FA/217 IFI-100/107

FA/794 MIL-DTL-18240

FA/795 IFI 124



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

FA/796 MIL-F-18240

FA/797 IFI 125

FA/798 IFI 524

***Reusability test of self-locking internally threaded fasteners***

FA/792 MIL-F-18240

FA/793 MIL-DTL-18240

**NVLAP LAB CODE 200273-0****NYLOK Fastener Corporation**

15260 Hallmark Drive

Macomb, MI 48042-4007

Contact: Mr. Glenn Graybill

Phone: 810-786-0100

Fax: 810-786-0498

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

***Dimensional Inspection******Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap***

FA/802 NYLOK TP-NW-5.0

***Mechanical and Physical Testing and Inspection******Prevailing torque***

FA/216 ANSI B18.16.1M

FA/217 IFI-100/107

FA/557 DIN 267, Part 15

FA/795 IFI 124

FA/796 MIL-F-18240

FA/797 IFI 125

FA/798 IFI 524

FA/807 GM 6189P

FA/808 Ford ES382101-S100

FA/809 Ford ES-N800688-S100

FA/810 Ford ES-384103-S-A

FA/811 Ford WA 970

FA/812 Ford ES-F77U-9E926-AA

FA/813 Chrysler PF-5077

FA/814 Chrysler PF-5144

FA/815 Chrysler PF-5461

FA/816 Chrysler PF-5683

FA/817 Chrysler PF-6157

FA/818 Chrysler PF-6158

FA/819 DIN 267, Part 27

FA/820 Navistar 0810

FA/821 GM TES-113

FA/822 Bendix W1287

FA/823 Mack Trucks 10AMS1

FA/824 Mack Trucks 3AXS5

FA/825 Mack Trucks 6AXS5

FA/826 Allied Signal WI-504

FA/827 GM 6175M

FA/828 Ford ES-20010-S100

FA/829 Ford ES-20007-S100

FA/830 Ford WX 200

FA/831 Ford WSS-M11P45-A1

FA/832 Ford ESS-M11P24-A1

FA/833 IFI 525

FA/834 Rockwell International Q-29

FA/835 Ford ES-N804199-S192

FA/836 Ford WE 950

FA/837 Ford ES-21002-S100

FA/838 Ford ES-21006-S100

FA/839 Ford ES-21000-S100

FA/840 Chrysler MS-CD914

FA/841 GM 6076M

FA/842 Chrysler PS-8542

***Torque-tension of full-size threaded fasteners***

FA/307 MIL-STD-1312-15

FA/308 SAE J174

**NVLAP LAB CODE 200274-0****Kyowa Kogyosyo Co., Ltd. Test Laboratory**

1-57, Kogyo-Danchi

Komatsu City, Ishikawa

JAPAN

Contact: Mr. Mataichi Fukuda

Phone: 81-761-21-0531

Fax: 81-761-21-0533

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

***Dimensional Inspection******Dimensions of ISO grade A and B fasteners***

FA/589 JIS B1071

***Dimensions of fasteners - bearing surface squareness***

FA/649 JIS B1071

***Dimensions of fasteners - straightness***

FA/648 JIS B1071

***External thread parameters - system 21***

FA/647 JIS B1071

***Surface texture***

FA/650 JIS B1071

***Mechanical and Physical Testing and Inspection******Axial tensile strength of full-size threaded fasteners***

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/574 JIS B1051 Sec. 4.2.2

***Charpy impact (u-notch) testing***

FA/845 JIS Z2242

***Hardness preparation***

FA/482 ASTM F606

***Measurement of fastener coating thickness - magnetic methods***

FA/596 JIS H8501

***Microhardness of fasteners***

FA/620 JIS Z2244

FA/642 JIS B1051 Sec. 4.2.5

***Proof load of full-size externally threaded fasteners***

FA/573 JIS B1051 Sec. 4.2.4



---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

**Rockwell hardness of fasteners**

FA/197 ASTM E18  
FA/572 JIS Z2245  
FA/707 JIS B1051 Sec. 4.2.5

**Tension testing of machined specimens from externally threaded fasteners**

FA/581 JIS B1051 Sec. 4.2.1  
FA/582 JIS Z2241

**Wedge tensile strength of full-size threaded fasteners**

FA/290 ASTM F606 Sec. 3.5  
FA/575 JIS B1051 Sec. 4.2.3

**Metallography****Decarburization and case depth measurement in fasteners**

FA/645 JIS B1051

**Surface discontinuities of externally threaded fasteners**

FA/603 JIS B1043

---

**NVLAP LAB CODE 200275-0****NYLOK Fastener Corporation - Chicago Testing Laboratory**

6465 Proesel Avenue  
Lincolnwood, IL 60645  
Contact: Mr. Peter Beck  
Phone: 800-446-5956  
Fax: 847-674-1269

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code Designation

**Dimensional Inspection****Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap**

FA/850 NYLOK TP-NC-5.0

**Mechanical and Physical Testing and Inspection****Prevailing torque**

FA/846 NYLOK TP-NC-1.0  
FA/847 NYLOK TP-NC-2.0  
FA/848 NYLOK TP-NC-3.0  
FA/849 NYLOK TP-NC-4.0

---

**NVLAP LAB CODE 200276-0****Yamaha Motor Metal Testing Laboratory****Fasteners and Metals**

2500 Shingai  
Iwata Shizuoka 438-8501  
JAPAN

Contact: Mr. Shinobu Mizukoshi

Phone: 81-538-37-4031

Fax: 81-538-37-4297

E-Mail: mizukoshi.shinobu@ccgw.yamaha-motor.co.jp

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Chemical Analysis****Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen**

FA/586 JIS G1211

FA/587 JIS G1215

**Optical emission spectrochemical analysis**

FA/588 JIS G1253

**Dimensional Inspection****Dimensions of general purpose fasteners and high-volume machine assembly fasteners**

FA/607 JIS B1071

FA/856 JIS B1251

FA/857 JIS B1256

**Mechanical and Physical Testing and Inspection****Axial tensile strength of full-size threaded fasteners**

FA/574 JIS B1051 Sec. 4.2.2

**CASS test (copper-accelerated acetic acid-salt spray test) of fasteners**

FA/599 JIS H8502

**Compression load of compressible-washer-type direct tension indicators**

FA/858 JIS B1251

**Measurement of fastener coating thickness - X-ray methods**

FA/641 JIS H8501

**Measurement of fastener coating thickness - microscopical method**

FA/640 JIS H8501

**Microhardness of fasteners**

FA/620 JIS Z2244

FA/642 JIS B1051 Sec. 4.2.5

**Proof load of full-size externally threaded fasteners**

FA/573 JIS B1051 Sec. 4.2.4

**Rockwell hardness of fasteners**

FA/572 JIS Z2245

FA/616 JIS B1051 Sec. 4.3

**Salt spray testing of fasteners**

FA/569 JIS Z2371

**Twist test of lock washers**

FA/678 JIS B1251

**Wedge tensile strength of full-size threaded fasteners**

FA/575 JIS B1051 Sec. 4.2.3

**Metallography****Decarburization and case depth measurement in fasteners**

FA/645 JIS B1051

**Surface discontinuities of externally threaded fasteners**

FA/603 JIS B1043

FA/646 JIS B1041

# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

## NVLAP LAB CODE 200277-0

### Vulcan Rivet and Bolt Corporation

1020 Pinson Valley Parkway  
P.O. Box 170129  
Birmingham, AL 35217-0129  
Contact: Mr. Anil P. Agarwal  
Phone: 205-841-2711  
Fax: 205-841-2722

### Fasteners & Metals

Accreditation Valid Through: June 30, 1999

#### NVLAP

Code Designation

### Mechanical and Physical Testing and Inspection

#### Axial tensile strength of full-size threaded fasteners

FA/266 ASTM F606 Sec. 3.4.1-3.4.3  
FA/267 ASTM F606M Sec. 3.4.1-3.4.3  
FA/273 SAE J429

#### Rockwell hardness of fasteners

FA/196 ASTM A370 Sec. 18

#### Single shear of externally threaded fasteners

FA/255 ASTM F606

#### Tension testing of machined specimens from externally threaded fasteners

FA/279 ASTM F606 Sec. 3.6  
FA/280 ASTM F606M Sec. 3.6  
FA/283 SAE J429

#### Wedge tensile strength of full-size threaded fasteners

FA/290 ASTM F606 Sec. 3.5  
FA/291 ASTM F606M Sec. 3.5  
FA/468 SAE J429 Sec. 5.5

## NVLAP LAB CODE 200278-0

### Casey Products, Inc.

1955 University Lane  
Lisle, IL 60532-4149  
Contact: Mr. Michael B. Connelly  
Phone: 630-960-3360  
Fax: 630-960-3419

### Fasteners & Metals

Accreditation Valid Through: March 31, 1999

#### NVLAP

Code Designation

### Dimensional Inspection

#### Dimensions of ISO grade A and B fasteners

FA/407 ISO 3269  
FA/408 ISO 4759-1

#### Dimensions of ISO grade C fasteners

FA/409 ISO 3269  
FA/410 ISO 4759-1

#### Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets

FA/411 ANSI/ASME B18.3  
FA/412 ANSI/ASME B18.3.1M

FA/413 ANSI/ASME B18.3.3M

FA/414 ANSI/ASME B18.3.4M

FA/415 ANSI/ASME B18.3.5M

FA/416 ANSI/ASME B18.3.6M

#### Dimensions of fasteners - straightness

FA/423 ANSI/ASME B18.2.1

FA/424 ANSI/ASME B18.2.3.1M

FA/425 ANSI/ASME B18.2.3.2M

FA/426 ANSI/ASME B18.2.3.3M

FA/427 ANSI/ASME B18.2.3.4M

FA/428 ANSI/ASME B18.2.3.5M

FA/429 ANSI/ASME B18.2.3.6M

FA/433 ANSI/ASME B18.5.2.2M

#### Dimensions of general purpose fasteners and high-volume machine assembly fasteners

FA/403 ANSI/ASME B18.18.1M

FA/404 ANSI/ASME B18.18.2M

FA/486 MIL-STD-120 (W/ Notice dtd 9 SEP 63)

FA/870 ANSI/ASME B1.16M

FA/871 ANSI/ASME B1.2

#### Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap

FA/405 ANSI/ASME B18.18.3M

FA/406 ANSI/ASME B18.18.4M

#### External thread parameters - ISO

FA/390 ISO 1502

#### External thread parameters - system 21

FA/379 ANSI/ASME B1.3M

#### External thread parameters - system 22

FA/381 ANSI/ASME B1.3M

#### Internal thread parameters - ISO

FA/402 ISO 1502

#### Internal thread parameters - system 21

FA/391 ANSI/ASME B1.3M

#### Internal thread parameters - system 22

FA/393 ANSI/ASME B1.3M

### Mechanical and Physical Testing and Inspection

#### Axial tensile strength of full-size threaded fasteners

FA/265 ASTM A370 Sec. A3.2.1.4

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/267 ASTM F606M Sec. 3.4.1-3.4.3

FA/270 ISO 898-1 Sec. 8.2

FA/273 SAE J429

FA/274 SAE J1216

#### Hardness preparation

FA/464 ASTM F606M

FA/482 ASTM F606

#### Measurement of fastener coating thickness - eddy-current method

FA/149 ASTM E376

#### Measurement of fastener coating thickness - magnetic methods

FA/155 ASTM E376

#### Microhardness of fasteners

FA/189 ASTM E384

#### Prevailing torque

FA/217 IFI-100/107

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued*****Proof load of full-size externally threaded fasteners***

FA/225	ASTM A370 Sec. A3.2.1.1-A3.2.1.3
FA/226	ASTM F606 Sec. 3.2.1-3.2.3
FA/228	ISO 898-1 Sec. 8.4
FA/229	SAE J429 Sec. 5.3
FA/467	ASTM F606M Sec. 3.2.1-3.2.3
FA/577	SAE J1216 Sec. 3.3

***Proof load of internally threaded fasteners (nuts)***

FA/235	ASTM A370 Sec. A3.5.1
FA/236	ASTM F606 Sec. 4.2
FA/237	ASTM F606M Sec. 4.2
FA/239	ISO 898-2 Sec. 8.1
FA/241	SAE J995 Sec. 5.1

***Rockwell hardness of fasteners***

FA/196	ASTM A370 Sec. 18
FA/197	ASTM E18

***Rockwell superficial hardness of fasteners***

FA/205	ASTM E18
FA/206	ASTM A370 Sec. 18

***Test for embrittlement of metallic coated externally threaded fasteners***

FA/179	ASTM F606 Sec. 7
FA/180	ASTM F606M Sec. 7

***Total extension at fracture of externally threaded fasteners***

FA/285	ASTM F606 Sec. 3.7
FA/286	ASTM F606M Sec. 3.7

***Wedge tensile strength of full-size threaded fasteners***

FA/289	ASTM A370
FA/290	ASTM F606 Sec. 3.5
FA/291	ASTM F606M Sec. 3.5
FA/294	ISO 898-1 Sec. 8.5
FA/468	SAE J429 Sec. 5.5
FA/469	SAE J1216 Sec. 3.6

***Yield strength of full-size externally threaded fasteners***

FA/298	ASTM F606 Sec. 3.2.4
FA/300	ASTM F606M Sec. 3.2.4

***Metallography******Decarburization and case depth measurement in fasteners***

FA/323	ASTM E1077
FA/324	ISO 898-1
FA/325	ISO 898-5
FA/328	SAE J121
FA/329	SAE J419
FA/330	SAE J423
FA/483	ASTM A574 Sec. 12
FA/519	ASTM A574M
FA/520	ASTM F835
FA/758	SAE J121M
FA/866	ASTM F835M
FA/867	ASTM F912
FA/868	ASTM F912M

***Determination of grain size of fasteners***

FA/638	ASTM E112
--------	-----------

***Macroscopic examination of fasteners by etching***

FA/484	ASTM E381
FA/511	ASTM E340

***Microscopic examination of fasteners by etching***

FA/512	ASTM E407
--------	-----------

***Surface discontinuities of externally threaded fasteners***

FA/357	ASTM F788/788M
FA/359	ISO 6157-1
FA/360	ISO 6157-3
FA/361	SAE J123
FA/362	SAE J1061
FA/859	ASTM A574
FA/860	ASTM A574M
FA/861	ASTM F835
FA/862	ASTM F835M
FA/863	ASTM F912
FA/864	ASTM F912M

***Surface discontinuities of internally threaded fasteners***

FA/365	SAE J122
FA/727	ISO 6157-2
FA/865	ASTM F812/F812M

---

**NVLAP LAB CODE 200279-0****Federal Manufacturing Corp.**

9825 Desoto Avenue  
Chatsworth, CA 91311  
Contact: Mr. Drew Haney  
Phone: 818-341-9825  
Fax: 818-341-9913

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

**Dimensional Inspection*****External thread parameters - system 22***

FA/381	ANSI/ASME B1.3M
FA/382	FED-STD-H28/20

***External thread parameters - system 23***

FA/385	ANSI/ASME B1.3M
FA/386	FED-STD-H28/20
FA/388	MIL-S-8879

**Mechanical and Physical Testing and Inspection*****Axial tensile strength of full-size threaded fasteners***

FA/799	NASM 1312-8
--------	-------------

***Double shear of externally threaded fasteners***

FA/880	NASM 1312-13
--------	--------------

***Fatigue of full-size threaded fasteners***

FA/876	NASM 1312-11
--------	--------------

***Magnetic permeability***

FA/214	ASTM A342 Test Method 3
--------	-------------------------

***Measurement of fastener coating thickness - magnetic methods***

FB/1003	NASM 1312-12
---------	--------------

***Microhardness of fasteners***

FA/189	ASTM E384
FA/877	NASM 1312-6



---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

***Recess strength test in both the installation and removal directions***

FA/886 NASM 1312-25

***Rockwell hardness of fasteners***

FA/878 NASM 1312-6

***Rockwell superficial hardness of fasteners***

FB/1004 NASM 1312-6

***Wedge tensile strength of full-size threaded fasteners***

FB/1005 NASM 1312-8

***Metallography******Determination of grain size of fasteners***

FA/331 ASTM E112

***Microscopic examination of fasteners by etching***

FA/512 ASTM E407

---

**NVLAP LAB CODE 200280-0****Super Cheng Industrial Testing Laboratory**

No. 15, Wei-Swei W. Road

Kaohsiung, Kangshan 82005

TAIWAN

Contact: Mr. Min Long Yu

Phone: 886-7-622-5326

Fax: 886-7-621-5377

E-Mail: supcheng@msl.hinet.net

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

***NVLAP****Code            Designation****Dimensional Inspection******Dimensions of fasteners - bearing surface squareness***

FA/746 ASME/ANSI B18.2.2

FA/761 JIS B1196

***Dimensions of fasteners - flange screw heads and flange nuts***

FA/566 IFI D21 p. D21

FA/764 DIN 6923

***Dimensions of fasteners - gaging for slotted nuts***

FA/417 ANSI/ASME B18.2.2

FA/763 DIN 935, Part 3

***Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets***

FA/843 ASME/ANSI B18.2.2

***Dimensions of general purpose fasteners and******high-volume machine assembly fasteners***

FA/404 ANSI/ASME B18.18.2M

FA/844 DIN Handbook 140

***Internal thread parameters - SAE fastener with MJ metric screw threads***

FA/762 ANSI/ASME B1.3M

***Mechanical and Physical Testing and Inspection******Hardness preparation***

FA/464 ASTM F606M

FA/482 ASTM F606

***Measurement of fastener coating thickness - X-ray methods***

FA/760 ASTM A754/A754M

***Measurement of fastener coating thickness - coulometric method***

FA/567 ASTM B504

***Prevailing torque***

FA/217 IFI-100/107

***Proof load of internally threaded fasteners (nuts)***

FA/236 ASTM F606 Sec. 4.2

FA/237 ASTM F606M Sec. 4.2

FA/241 SAE J995 Sec. 5.1

***Rockwell hardness of fasteners***

FA/197 ASTM E18

***Rockwell superficial hardness of fasteners***

FA/205 ASTM E18

***Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)***

FA/492 ASTM E92

***Metallography******Decarburization and case depth measurement in fasteners***

FA/324 ISO 898-1

FA/328 SAE J121

FA/521 ASTM E384

***Surface discontinuities of externally threaded fasteners***

FA/357 ASTM F788

FA/358 ASTM F788M

***Surface discontinuities of internally threaded fasteners***

FA/363 ASTM F812

FA/364 ASTM F812M

---

**NVLAP LAB CODE 200281-0****Fujitsu Evaluation Engineering Laboratory**

140 Miyamoto

Numazu, Shizuoka-Pref. 410-0396

JAPAN

Contact: Mr. Yoshiyuki Okita

Phone: 81-559-24-7209

Fax: 81-559-24-6183

E-Mail: okita@psl.fujitsu.co.jp

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

***NVLAP****Code            Designation****Australian Standards referred to by clauses in AUSTEL Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****International Special Committee on Radio Interference****(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200282-0****Electronics Test Centre**

302 Legget Drive, Unit 100

Kanata, Ont. K2K 1Y5

CANADA

Contact: Mr. Dave Scribailo

Phone: 613-599-6800

Fax: 613-599-7614

E-Mail: daves@mpb-technologies.com

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference****(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200283-0****Duro-Test Corporation**

185 Scoles Avenue

Clifton, NJ 07012

Contact: Mr. Denis McNamee

Phone: 973-472-1900

Fax: 973-472-5220

E-Mail: dmcnamee@duro-test.com

**Energy Efficient Lighting Products**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code Designation

**Color Measurements**

22/C01 IES LM-58

**Electrical Measurements**

22/E01 IES LM-9

22/E02 IES LM-45

22/E03 IES LM-51

22/E04 IES LM-66

**Photometric Measurements**

22/P01a IES LM-9 (Total Flux)

22/P02a IES LM-20 (Total Flux)

22/P03a IES LM-45 (Total Flux)

22/P04a IES LM-51 (Total Flux)

22/P05a IES LM-66 (Total Flux)

**NVLAP LAB CODE 200285-0****Sony Atsugi EMC Site**

6-7-35, Kitashinagawa

Shinagawa, Tokyo, 141-0001

JAPAN

Contact: Mr. Noriyoshi Iwasaki

Phone: 81-3-5448-4162

Fax: 81-3-5448-2389

E-Mail: noriyoshi@apl.sony.co.jp

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code Designation

**Australian Standards referred to by clauses in AUSTEL****Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

**International Special Committee on Radio Interference****(CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200286-0****Fwu Kuang Enterprises Co., Ltd.**

No. 239, Lane 202, Chung Cheng W. Road,

Erh-Hang Tsum, Jen-Te Hsiang

Tainan Hsien

TAIWAN

Contact: Mr. Zhi Ming Wang

Phone: 886-6-2625343

Fax: 886-6-2665439

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code Designation

**Dimensional Inspection****External thread parameters - ISO**

FA/390 ISO 1502

**External thread parameters - system 21**

FA/379 ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/267 ASTM F606M Sec. 3.4.1-3.4.3

*Measurement of fastener coating thickness - coulometric method*

FA/567 ASTM B504

*Microhardness of fasteners*

FA/189 ASTM E384

*Proof load of full-size externally threaded fasteners*

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/467 ASTM F606M Sec. 3.2.1-3.2.3

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18

*Torque-tension of full-size threaded fasteners*

FA/938 ASTM F912

FA/939 ASTM F912M

*Total extension at fracture of externally threaded fasteners*

FA/285 ASTM F606 Sec. 3.7

FA/286 ASTM F606M Sec. 3.7

*Wedge tensile strength of full-size threaded fasteners*

FA/290 ASTM F606 Sec. 3.5

FA/291 ASTM F606M Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4

FA/300 ASTM F606M Sec. 3.2.4

**Metallography**

*Decarburization and case depth measurement in fasteners*

FA/325 ISO 898-5

FA/867 ASTM F912

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788/788M

NVLAP LAB CODE 200287-0

**Small IAC Test Laboratory**

107 Park St. N

Peterborough, ON K9J-7B5

CANADA

Contact: Mr. Harold Peltzer

Phone: 705-748-7343

Fax: 705-748-7677

E-Mail: Peltzer.harold@mlink.motors.ge.com

**Efficiency of Electric Motors**

Accreditation Valid Through: September 30, 1999

NVLAP

Code Designation

24/M01 IEEE 112, Method B

NVLAP LAB CODE 200288-0

**Fong Prean Industrial Co., Ltd.**

No. 6 Kung-Wei St. Tzu Hsin T'Sun

Tzu Kuan Hsiang

Kaohsiung Hsien

TAIWAN

Contact: Mr. Chang San Tien

Phone: 886-7-6170526

Fax: 886-7-6103160

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

NVLAP

Code Designation

**Dimensional Inspection**

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/854 ANSI/ASME B18.6.4

FA/855 ISO 1479

**Mechanical and Physical Testing and Inspection**

*Drill-drive test*

FA/247 SAE J78

FA/851 DIN 7504

*Hardness preparation*

FA/464 ASTM F606M

FA/482 ASTM F606

*Measurement of fastener coating thickness - X-ray methods*

FA/760 ASTM A754/A754M

*Microhardness of fasteners*

FA/189 ASTM E384

*Rockwell hardness of fasteners*

FA/197 ASTM E18

*Rockwell superficial hardness of fasteners*

FA/205 ASTM E18

*Salt spray testing of fasteners*

FA/166 ASTM B117

*Torsional strength test of thread rolling and self-drilling tapping screws*

FA/751 SAE J933

FA/852 ISO 2702

FA/853 DIN 7504

**Metallography**

*Decarburization and case depth measurement in fasteners*

FA/330 SAE J423

FA/562 ASTM G79

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788/788M

FA/361 SAE J123

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

**NVLAP LAB CODE 200289-0****Craig Environmental Services, Inc.**

5439 Harding Highway  
P.O. Box 427  
Mays Landing, NJ 08330  
Contact: Ms. Hollie A. Madamba  
Phone: 609-625-4200  
Fax: 609-625-1798

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 200290-0****ATC Associates Inc.**

11356 Mathis Ave.  
Dallas, TX 75229-3157  
Contact: Ms. Cynthia E. Watkins  
Phone: 972-556-2205  
Fax: 972-556-1753

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

---

**NVLAP LAB CODE 200291-0****NGC Testing Services, National Gypsum  
Research Center**

1650 Military Road  
Buffalo, NY 14217-1198  
Contact: Mr. Robert J. Menchetti  
Phone: 716-873-9750  
Fax: 716-873-9753  
E-Mail: [ngctest@buffnet.net](mailto:ngctest@buffnet.net)  
URL: <http://www.national-gypsum.com/testing/index.html>

**Acoustical Testing Services**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

08/P03	ASTM C423 (ISO 354)
08/P06	ASTM E90 (ISO 140, Part 3)
08/P30	ASTM E1408
08/P34	ASTM E1414 (AMA-1-II-67)(ISO 140, Part 9)

---

**NVLAP LAB CODE 200292-0****BCAG Fastener Quality Test Lab Everett Site**

P.O. Box 370, MS 04-02  
Seattle, WA 98124-2207  
Contact: Mr. Eugene J. Brown  
Phone: 425-342-3888  
Fax: 425-266-4673  
E-Mail: [eugene.j.brown@boeing.com](mailto:eugene.j.brown@boeing.com)

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Chemical Analysis****Combustion analysis for carbon, sulfur, oxygen,  
nitrogen, and hydrogen**

FA/472 ASTM E1447

**Optical emission spectrochemical analysis**

FA/456 ASTM E327

FA/457 ASTM E415

FA/458 ASTM E607

FA/459 ASTM E1086

FA/460 ASTM E1251

**Spot test analysis**

FB/1076 D1-8018-2

**Dimensional Inspection****Dimensions of fasteners - bearing surface squareness**

FA/911 BPS-N-70

**Dimensions of fasteners - gaging for slotted nuts**

FA/417 ANSI/ASME B18.2.2

FA/418 ANSI/ASME B18.2.4.3M

**Dimensions of fasteners - straightness**

FA/423 ANSI/ASME B18.2.1

**Dimensions of special purpose fasteners and fasteners for  
highly specialized engineered ap**

FA/405 ANSI/ASME B18.18.3M

FA/406 ANSI/ASME B18.18.4M

FB/1060 BPS-F-69

FB/1061 BPS-F-76

FB/1062 BPS-F-67

FB/1063 D-11805

FB/1064 BPS-N-70

FB/1065 BPS-F-68

**External thread parameters - system 22**

FA/381 ANSI/ASME B1.3M

FA/382 FED-STD-H28/20

FA/383 MIL-S-7742

FA/384 MIL-S-8879

**Internal thread parameters - system 21**

FA/391 ANSI/ASME B1.3M

FA/392 FED-STD-H28/20

FA/529 MIL-S-7742

**Surface texture**

FA/439 ANSI/ASME B46.1

**Mechanical and Physical Testing and Inspection****Adhesion of metallic coatings on fasteners**

FA/532 BMS 10-85M Sec. 8.2

**Axial tensile strength of full-size threaded fasteners**

FA/271 MIL-STD-1312-8

FA/799 NASM 1312-8

FB/1067 D2-2860

**Double shear of externally threaded fasteners**

FA/257 MIL-STD-1312-13

FA/880 NASM 1312-13

FB/1066 D2-2860

FB/1070 NAS 498

**Fatigue of full-size threaded fasteners**

FA/183 MIL-STD-1312-11

FA/184 NAS 1069

FA/876 NASM 1312-11



# INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued

FB/1038 D2-2860

## Hardness preparation

FB/1071 NAS 498

## Hydrogen embrittlement (stress durability) of externally threaded fasteners

FA/176 MIL-STD-1312-5

FA/801 QQ-P-416

FA/875 NASM 1312-5

## Hydrogen embrittlement (stress durability) of internally threaded fasteners

FA/178 MIL-STD-1312-14

FA/800 QQ-P-416

FB/1033 NASM 1312-14

## Intergranular corrosion susceptibility of austenitic stainless steel fasteners - oxalic acid

FA/174 ASTM A262 Sec. 3-7, Practice A

## Measurement of fastener coating thickness - dimensional change method

FA/495 MIL-STD-1312-12

FA/874 NASM 1312-12

## Measurement of fastener coating thickness - microscopical method

FA/160 ASTM B487

FA/163 MIL-STD-1312-12

FA/873 NASM 1312-12

## Microhardness of fasteners

FA/189 ASTM E384

## Prevailing torque

FA/630 MIL-N-25027

FA/899 BPS-N-70

FA/902 NAS 3350

## Proof load of full-size externally threaded fasteners

FA/691 MIL-STD-1312-8

FB/1037 NASM 1312-8

FB/1041 D2-2860

## Proof load of internally threaded fasteners (nuts)

FB/1039 MIL-STD-1312-8

FB/1040 NASM 1312-8

FB/1042 D2-2860

## Push out test of floating plate nuts, gang channel nuts, and anchor nuts

FA/116 MIL-N-25027

FA/891 BPS-N-70

## Recess strength test in both the installation and removal directions

FA/886 NASM 1312-25

## Reusability test of self-locking internally threaded fasteners

FA/124 MIL-N-25027

FA/125 NAS 3350

FA/774 BPS-N-70

## Rockwell hardness of fasteners

FA/196 ASTM A370 Sec. 18

FA/197 ASTM E18

FA/201 MIL-STD-1312-6

FA/878 NASM 1312-6

FB/1072 BAC 5650

## Rockwell superficial hardness of fasteners

FA/205 ASTM E18

FA/206 ASTM A370 Sec. 18

FA/209 MIL-STD-1312-6

FB/1035 NASM 1312-6

## Salt spray testing of fasteners

FA/168 MIL-STD-1312-1

FB/1032 NASM 1312-1

## Tension testing of machined specimens from externally threaded fasteners

FA/475 ASTM E8

FB/1043 ASTM B557

## Test for embrittlement of metallic coated externally threaded fasteners

FA/525 MIL-STD-1312-5

FB/1034 NASM 1312-5

## Torque-out test

FA/133 MIL-N-25027

FB/1031 BPS-N-70

## Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)

FA/671 MIL-STD-1312-6

FB/1036 NASM 1312-6

## Wedge tensile strength of full-size threaded fasteners

FA/295 MIL-STD-1312-8

FB/1044 NASM 1312-8

FB/1069 D2-2860

## Wrench torque test of externally wrenching nuts of spline and hexagon and double hexagon (1

FA/141 MIL-N-25027

FA/142 NAS 3350

FA/893 BPS-N-70

## Yield strength of full-size externally threaded fasteners

FA/303 MIL-STD-1312-8

FB/1045 NASM 1312-8

FB/1068 D2-2860

## Metallography

## Decarburization and case depth measurement in fasteners

FA/323 ASTM E1077

FA/904 BPS-N-70

FB/1046 BPS-F-76

FB/1047 BPS-F-67

FB/1048 NAS 498

FB/1073 BPS-F-46

## Determination of grain size of fasteners

FA/331 ASTM E112

## Macroscopic examination of fasteners by etching

FA/511 ASTM E340

## Microscopic examination of fasteners by etching

FA/512 ASTM E407

## Surface discontinuities of externally threaded fasteners

FA/357 ASTM F788/788M

FA/859 ASTM A574

FB/1049 NAS 4002

FB/1050 NAS 4003

FB/1051 NAS 4004

FB/1052 BPS-F-67



---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

FB/1053 BPS-F-69  
FB/1054 BPS-F-68  
FB/1055 BPS-F-76  
FB/1056 NAS 498  
FB/1057 FF-S-86

*Surface discontinuities of internally threaded fasteners*

FA/907 BPS-N-70

*Nondestructive Inspection*

*Liquid penetrant inspection of fasteners*

FA/527 ASTM E1417  
FB/1059 MIL-I-25135  
FB/1074 BAC 5423

*Magnetic particle inspection of fasteners*

FA/485 ASTM E1444  
FB/1075 BAC 5424

---

NVLAP LAB CODE 200293-0

**EMSL Analytical, Inc.**

10766 Rhode Island Avenue  
Beltsville, MD 20705  
Contact: Mr. Joseph Centifonti  
Phone: 301-937-5700  
Fax: 301-937-5702

URL: <http://www.emsl.com>

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: December 31, 1999

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

NVLAP LAB CODE 200294-0

**Micron Environmental Labs**

292 E. Foothill Blvd., Suite B  
Arcadia, CA 91006  
Contact: Mr. Daniel Gamez  
Phone: 626-357-8627  
Fax: 626-256-9017

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

NVLAP LAB CODE 200296-0

**Okawa Laboratory**

6357-1 Oba, Omiya-cho  
Naka-gun, Ibaraki-ken 319-21  
JAPAN  
Contact: Mr. Katsuyoshi Okawa  
Phone: 81-2955-3-0111  
Fax: 81-2955-3-5290

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Dimensional Inspection*

*Dimensions of general purpose fasteners and  
high-volume machine assembly fasteners*

FA/607 JIS B1071

*Mechanical and Physical Testing and Inspection*

*Axial tensile strength of full-size threaded fasteners*

FA/574 JIS B1051 Sec. 4.2.2

*Measurement of fastener coating thickness - magnetic  
methods*

FA/596 JIS H8501

*Proof load of full-size externally threaded fasteners*

FA/573 JIS B1051 Sec. 4.2.4

*Rockwell hardness of fasteners*

FA/572 JIS Z2245

FA/616 JIS B1051 Sec. 4.3

FA/707 JIS B1051 Sec. 4.2.5

*Salt spray testing of fasteners*

FA/569 JIS Z2371

*Vickers hardness - test forces from 9.807 to 1176 N (1 to  
120 kgf)*

FA/571 JIS Z2244

FA/643 JIS B1051 Sec. 4.2.5

*Metallography*

*Decarburization and case depth measurement in  
fasteners*

FA/645 JIS B1051

*Surface discontinuities of externally threaded fasteners*

FA/646 JIS B1041

---

NVLAP LAB CODE 200297-0

**Intertek Testing Services NA Inc.**

27611 La Paz Road, Suite C  
Laguna Niguel, CA 92677  
Contact: Mr. Simon Rate  
Phone: 714-448-4100  
Fax: 714-448-4111

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL  
Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference  
(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

## NVLAP LAB CODE 200298-0

## SPS Technologies Aerospace Product Division

2701 S. Harbor Boulevard  
Santa Ana, CA 92702-1259  
Contact: Mr. Rob Dewitz  
Phone: 714-850-3664  
Fax: 714-850-3605

## Fasteners &amp; Metals

Accreditation Valid Through: March 31, 1999

## NVLAP

Code Designation

## Dimensional Inspection

## Dimensions of fasteners - bearing surface squareness

FA/633 MIL-N-25027

## Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets

FA/411 ANSI/ASME B18.3

FA/540 MIL-STD-33787

FA/634 MIL-STD-21132

FA/635 SAE AS 870

## Dimensions of fasteners - straightness

FA/423 ANSI/ASME B18.2.1

## External thread parameters - system 21

FA/379 ANSI/ASME B1.3M

FA/380 FED-STD-H28/20

FA/628 MIL-S-8879

## External thread parameters - system 22

FA/381 ANSI/ASME B1.3M

FA/382 FED-STD-H28/20

FA/384 MIL-S-8879

## External thread parameters - system 23

FA/385 ANSI/ASME B1.3M

FA/386 FED-STD-H28/20

FA/388 MIL-S-8879

## Internal thread parameters - system 21

FA/391 ANSI/ASME B1.3M

FA/392 FED-STD-H28/20

FA/629 MIL-S-8879

## Internal thread parameters - system 22

FA/393 ANSI/ASME B1.3M

FA/394 FED-STD-H28/20

FA/537 SAE AS 8879

## Surface texture

FA/439 ANSI/ASME B46.1

## Mechanical and Physical Testing and Inspection

## Adhesion of metallic coatings on fasteners

FA/143 ASTM B571

## Axial tensile strength of full-size threaded fasteners

FA/265 ASTM A370 Sec. A3.2.1.4

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/271 MIL-STD-1312-8

## Double shear of externally threaded fasteners

FA/257 MIL-STD-1312-13

## Hardness preparation

FA/482 ASTM F606

## Humidity testing of fasteners

FA/169 MIL-STD-753 Test Method 101

FA/473 MIL-STD-1312-3

FA/923 ASTM A967

## Hydrogen embrittlement (stress durability) of externally threaded fasteners

FA/176 MIL-STD-1312-5

FA/924 ASTM F606

## Hydrogen embrittlement (stress durability) of internally threaded fasteners

FA/178 MIL-STD-1312-14

## Magnetic permeability

FA/214 ASTM A342 Test Method 3

## Measurement of fastener coating thickness - X-ray methods

FA/556 ASTM B568

## Measurement of fastener coating thickness - magnetic methods

FA/153 ASTM B499

FA/159 MIL-STD-1312-12

## Measurement of fastener coating thickness - microscopical method

FA/160 ASTM B487

FA/163 MIL-STD-1312-12

## Microhardness of fasteners

FA/189 ASTM E384

FA/193 MIL-STD-1312-6

## Permanent set test of self-locking nuts

FA/109 MIL-N-25027

## Prevailing torque

FA/630 MIL-N-25027

## Proof load of full-size externally threaded fasteners

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

## Proof load of internally threaded fasteners (nuts)

FA/236 ASTM F606 Sec. 4.2

## Push out test of floating plate nuts, gang channel nuts, and anchor nuts

FA/926 SPS 316

## Recess strength test in both the installation and removal directions

FA/476 MIL-STD-1312-25

## Reusability test of self-locking internally threaded fasteners

FA/124 MIL-N-25027

FA/522 MIL-STD-1312-31

## Rockwell hardness of fasteners

FA/197 ASTM E18

FA/201 MIL-STD-1312-6

## Rockwell superficial hardness of fasteners

FA/205 ASTM E18

FA/209 MIL-STD-1312-6

## Room temperature of three cycles test of floating plate nuts, gang channel nuts and anchor

FA/927 SPS 380

*Salt spray testing of fasteners*

FA/166 ASTM B117  
FA/168 MIL-STD-1312-1

*Single shear of externally threaded fasteners*

FA/255 ASTM F606  
FA/256 MIL-STD-1312-20  
FA/925 ASTM F606M

*Stress rupture of fasteners*

FA/260 ASTM E139  
FA/261 ASTM E292  
FA/262 MIL-STD-1312-10

*Tension testing of machined specimens from externally threaded fasteners*

FA/278 ASTM A370  
FA/279 ASTM F606 Sec. 3.6  
FA/475 ASTM E8

*Test for embrittlement of metallic coated externally threaded fasteners*

FA/179 ASTM F606 Sec. 7  
FA/525 MIL-STD-1312-5

*Torque-out test*

FA/133 MIL-N-25027  
FA/523 MIL-STD-1312-31

*Torque-tension of full-size threaded fasteners*

FA/307 MIL-STD-1312-15

*Vibration of full-size threaded fasteners*

FA/311 MIL-STD-1312-7  
FA/631 MIL-N-25027

*Wedge tensile strength of full-size threaded fasteners*

FA/289 ASTM A370  
FA/290 ASTM F606 Sec. 3.5

*Yield strength of full-size externally threaded fasteners*

FA/298 ASTM F606 Sec. 3.2.4  
FA/299 ASTM A370 Sec. A3.2.1.3(a)

*Metallography*

*Decarburization and case depth measurement in fasteners*

FA/323 ASTM E1077

*Determination of grain size of fasteners*

FA/638 ASTM E112

*Macroscopic examination of fasteners by etching*

FA/511 ASTM E340

*Microscopic examination of fasteners by etching*

FA/512 ASTM E407

*Surface discontinuities of externally threaded fasteners*

FA/357 ASTM F788/788M

*Surface discontinuities of internally threaded fasteners*

FA/865 ASTM F812/F812M

*Nondestructive Inspection*

*Liquid penetrant inspection of fasteners*

FA/371 MIL-STD-6866  
FA/527 ASTM E1417

*Magnetic particle inspection of fasteners*

FA/485 ASTM E1444

NVLAP LAB CODE 200299-0

**Okai Iron Works Co., Ltd.**

3-12-41 Tsuruhara  
Izumisano Osaka 598-0071  
JAPAN  
Contact: Mr. Yasuhiro Okai  
Phone: 0724-63-6101  
Fax: 0724-63-6228

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Dimensional Inspection*

*Dimensions of ISO grade A and B fasteners*

FA/408 ISO 4759-1  
FA/930 ISO 4759-3

*Dimensions of ISO grade C fasteners*

FA/410 ISO 4759-1  
FA/931 ISO 4759-3

*Dimensions of fasteners - bearing surface squareness*

FA/936 ISO 4759-1

*Dimensions of fasteners - flange screw heads and flange nuts*

FA/933 ISO 4161  
FA/934 ISO 4162

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/411 ANSI/ASME B18.3  
FA/932 ISO 4759-1

*Dimensions of fasteners - straightness*

FA/935 ISO 4759-1

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

*Surface texture*

FA/937 ISO 4288

*Mechanical and Physical Testing and Inspection*

*Adhesion of metallic coatings on fasteners*

FA/144 ISO 2819

*Axial tensile strength of full-size threaded fasteners*

FA/270 ISO 898-1 Sec. 8.2

*Measurement of fastener coating thickness - magnetic methods*

FA/153 ASTM B499

*Measurement of fastener coating thickness - microscopical method*

FA/162 ISO 1463

*Microhardness of fasteners*

FA/191 ISO 6507-2  
FA/192 ISO 6507-3

*Proof load of full-size externally threaded fasteners*

FA/228 ISO 898-1 Sec. 8.4



*Proof load of internally threaded fasteners (nuts)*  
 FA/239 ISO 898-2 Sec. 8.1  
*Rockwell hardness of fasteners*  
 FA/200 ISO 6508  
*Tension testing of machined specimens from externally threaded fasteners*  
 FA/282 ISO 898-1  
*Total extension at fracture of externally threaded fasteners*  
 FA/287 ISO 3506  
*Wedge tensile strength of full-size threaded fasteners*  
 FA/294 ISO 898-1 Sec. 8.5  
*Yield strength of full-size externally threaded fasteners*  
 FA/298 ASTM F606 Sec. 3.2.4  
**Metallography**  
*Decarburization and case depth measurement in fasteners*  
 FA/324 ISO 898-1  
 FA/928 ISO 2639  
*Macroscopic examination of fasteners by etching*  
 FA/929 ISO 4969  
*Surface discontinuities of externally threaded fasteners*  
 FA/359 ISO 6157-1  
 FA/360 ISO 6157-3  
*Surface discontinuities of internally threaded fasteners*  
 FA/727 ISO 6157-2

NVLAP LAB CODE 200300-0

**Akzo Kashima Ltd., Kawasaki Technical Center**  
 5-23-13 Minamikase, Saiwai-ku  
 Kawasaki 211  
 JAPAN  
 Contact: Mr. Shuichi Kobayashi  
 Phone: 81-479-40-1097  
 Fax: 81-479-46-1788

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL*

*Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

12/T01 Terminal Equipment Network Protection Standards, FCC Method - 47 CFR Part 68 - Analog and Digital

12/T01a 68.302 (Par. c,d,e,f) Environmental simulation; 68.304 Leakage current limit.; 68.306 Hazardous voltage limit.; 68.308 Signal power limit.; 68.310 Longitudinal balance limit.;

68.312 On-hook impedance limit.; 68.314 Billing protection  
 12/T01b 68.316 Hearing Aid Compatibility: technical standards  
 12/T01c 68.302 Environmental simulation (Par. a,b)  
*International Special Committee on Radio Interference (CISPR) Methods*  
 12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200303-0

**A.E.S.L.**

800 North Mary Street  
 Tempe, AZ 85281-1945  
 Contact: Mr. Kenneth W. Hokanson  
 Phone: 602-966-7171  
 Fax: 602-394-0188

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

NVLAP LAB CODE 200304-0

**GEC Marconi Avionics Ltd Environmental and EMC Test Center**

Airport Works  
 Rochester  
 Kent ME1 2XX  
 UNITED KINGDOM  
 Contact: Mr. Frank Ewen  
 Phone: 01-634-816794  
 Fax: 01-634-816647  
 E-Mail: frank.ewen@gecm.com

**MIL-STD-462 Test Methods**

Accreditation Valid Through: March 31, 1999

*NVLAP*

*Code Designation*

*Conducted Emissions:*

12/A06 MIL-STD-462 Method CE03

12/A12 MIL-STD-462 Method CE07

*Conducted Susceptibility:*

12/B01 MIL-STD-462 Method CS01

12/B02 MIL-STD-462 Method CS02

12/B05 MIL-STD-462 Method CS06

*Radiated Emissions:*

12/D02 MIL-STD-462 Method RE02

*Radiated Susceptibility:*

12/E02 MIL-STD-462 Method RS02

12/E03 MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)

12/E04 MIL-STD-462 Method RS03 employing RADHAZ procedures for high level testing



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

(Consult laboratory for field strengths  
available)

**NVLAP LAB CODE 200305-0****GE Owensboro Test Laboratory**

3301 Old Hartford Road  
Owensboro, KY 42718  
Contact: Mr. Robert Riley  
Phone: 502-686-1212  
Fax: 502-686-1240

**Efficiency of Electric Motors**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code      Designation

24/M01      IEEE 112, Method B

**NVLAP LAB CODE 200306-0****Zacta Technology Corporation Yonezawa Testing Center**

4149-7 Hachimanpara 5-chome  
Yonezawa-shi Yamagata 992-1128  
JAPAN  
Contact: Mr. Shin-ichi Abe  
Phone: 81-238-28-2880  
Fax: 81-238-28-2888  
E-Mail: albatross\_abe@hi-ho.ne.jp

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code      Designation

**Australian Standards referred to by clauses in AUSTEL  
Technical Standards**

12/T51      AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01      FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b      Radiated Emissions

**International Special Committee on Radio Interference  
(CISPR) Methods**

12/CIS22      IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200307-0****Rocknel Fastener Inc.**

5309 11th Street  
Rockford, IL 61125-7009  
Contact: Mr. White White  
Phone: 815-873-4048  
Fax: 815-873-4011

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code      Designation

**Dimensional Inspection****Dimensions of fasteners - flange screw heads and flange  
nuts**

FA/690      JIS B1071

**Dimensions of fasteners - straightness**

FA/648      JIS B1071

**Dimensions of general purpose fasteners and  
high-volume machine assembly fasteners**

FA/404      ANSI/ASME B18.18.2M

FA/607      JIS B1071

**External thread parameters - ISO**

FA/624      JIS B0252

FA/884      JIS B0251

**External thread parameters - system 21**

FA/379      ANSI/ASME B1.3M

**External thread parameters - system 22**

FA/381      ANSI/ASME B1.3M

**Mechanical and Physical Testing and Inspection****Adhesion of metallic coatings on fasteners**

FA/143      ASTM B571

FA/595      JIS H8504

**Axial tensile strength of full-size threaded fasteners**

FA/267      ASTM F606M Sec. 3.4.1-3.4.3

FA/270      ISO 898-1 Sec. 8.2

FA/574      JIS B1051 Sec. 4.2.2

**Hardness preparation**

FA/464      ASTM F606M

**Measurement of fastener coating thickness - eddy-current  
method**

FA/618      JIS H8501

**Microhardness of fasteners**

FA/189      ASTM E384

**Proof load of full-size externally threaded fasteners**

FA/228      ISO 898-1 Sec. 8.4

FA/467      ASTM F606M Sec. 3.2.1-3.2.3

FA/573      JIS B1051 Sec. 4.2.4

**Rockwell hardness of fasteners**

FA/572      JIS Z2245

**Rockwell superficial hardness of fasteners**

FA/205      ASTM E18

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued*****Total extension at fracture of externally threaded fasteners***

FA/286 ASTM F606M Sec. 3.7

***Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)***

FA/571 JIS Z2244

***Wedge tensile strength of full-size threaded fasteners***

FA/291 ASTM F606M Sec. 3.5

FA/294 ISO 898-1 Sec. 8.5

FA/575 JIS B1051 Sec. 4.2.3

***Yield strength of full-size externally threaded fasteners***

FA/300 ASTM F606M Sec. 3.2.4

FA/686 JIS B1051 Sec. 4.2.2

FA/885 ISO 6892

***Metallography******Decarburization and case depth measurement in fasteners***

FA/324 ISO 898-1

***Surface discontinuities of externally threaded fasteners***

FA/359 ISO 6157-1

**NVLAP LAB CODE 200308-0****SNB Laboratory**

49 Abbott Street

P.O. Box 68

Cumberland, RI 02864-0968

Contact: Mr. James Faria

Phone: 401-722-6700

Fax: 401-726-4960

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

***NVLAP****Code      Designation****Dimensional Inspection******Dimensions of fasteners - bearing surface squareness***

FA/745 ANSI B18.2.1

***Dimensions of fasteners - straightness***

FA/423 ANSI/ASME B18.2.1

***Dimensions of general purpose fasteners and high-volume machine assembly fasteners***

FA/486 MIL-STD-120 (W/ Notice dtd 9 SEP 63)

***External thread parameters - system 21***

FA/379 ANSI/ASME B1.3M

FA/940 ANSI/ASME B1.2

***External thread parameters - system 22***

FA/381 ANSI/ASME B1.3M

FA/941 ANSI/ASME B1.2

***Internal thread parameters - system 21***

FA/391 ANSI/ASME B1.3M

FA/942 ANSI/ASME B1.2

***Internal thread parameters - system 22***

FA/393 ANSI/ASME B1.3M

FA/943 ANSI/ASME B1.2

***Mechanical and Physical Testing and Inspection******Axial tensile strength of full-size threaded fasteners***

FA/265 ASTM A370 Sec. A3.2.1.4

FA/266 ASTM F606 Sec. 3.4.1-3.4.3

FA/273 SAE J429

***Cone proof load of internally threaded fasteners (nuts)***

FA/220 ASTM F606 Sec. 4.3

***Magnetic permeability***

FA/214 ASTM A342 Test Method 3

***Proof load of full-size externally threaded fasteners***

FA/226 ASTM F606 Sec. 3.2.1-3.2.3

FA/229 SAE J429 Sec. 5.3

***Proof load of internally threaded fasteners (nuts)***

FA/236 ASTM F606 Sec. 4.2

***Rockwell hardness of fasteners***

FA/197 ASTM E18

***Tension testing of machined specimens from externally threaded fasteners***

FA/278 ASTM A370

FA/279 ASTM F606 Sec. 3.6

***Wedge tensile strength of full-size threaded fasteners***

FA/289 ASTM A370

FA/290 ASTM F606 Sec. 3.5

***Yield strength of full-size externally threaded fasteners***

FA/298 ASTM F606 Sec. 3.2.4

**NVLAP LAB CODE 200309-0****TDK Corporation's 10m Anechoic Chamber and Chikumagawa Open Site**

2-15-7 Higashi-Owada

Ichikawa-shi, Chiba-ken 272

JAPAN

Contact: Mr. Akira Bandoh

Phone: 011-81-47-378-9190

Fax: 011-81-47-378-9780

E-Mail: HFE00246@niftyserve.or.jp

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

***NVLAP****Code      Designation****Australian Standards referred to by clauses in AUSTEL Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

***International Special Committee on Radio Interference (CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****NVLAP LAB CODE 200310-0****EMSL Analytical, Inc.**

700 Gotham Parkway  
Carlstadt, NJ 07072  
Contact: Ms. Gael E. Miller  
Phone: 201-531-2666  
Fax: 201-531-1769

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: March 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: March 31, 1999

**NVLAP LAB CODE 200312-0****Sony Electronics Inc. Product Quality Division  
EMC Group**

16450 West Bernardo Drive, Building 8  
San Diego, CA 92127-1804  
Contact: Mr. Dave Traver  
Phone: 619-673-2601  
Fax: 619-674-5967

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

*Code      Designation*

***Australian Standards referred to by clauses in AUSTEL  
Technical Standards***

12/T51      AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01      FCC Method - 47 CFR Part 15 - Digital

Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b      Radiated Emissions

***International Special Committee on Radio Interference  
(CISPR) Methods***

12/CIS22      IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200313-0****Eastman Kodak Co.-Regulatory Compliance  
Center-EMC Facility**

901 Elmgrove Road  
Rochester, NY 14653-5513  
Contact: Ms. Gina T. Wyffels  
Phone: 716-726-3200  
Fax: 716-726-4297  
E-Mail: 234010n@isbpgate.kodak.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

*Code      Designation*

***Australian Standards referred to by clauses in AUSTEL  
Technical Standards***

12/T51      AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01      FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a      Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b      Radiated Emissions

***International Special Committee on Radio Interference  
(CISPR) Methods***

12/CIS22      IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

**NVLAP LAB CODE 200314-0****MQS Inspection, Inc. Magnetic Particle & Liquid  
Penetrant Exam.**

9910 Jordan Circle  
Santa Fe Springs, CA 90670  
Contact: Mr. Stephen R. Mesko  
Phone: 562-944-8511  
Fax: 562-9606-0331

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

*Code      Designation*

***Nondestructive Inspection******Liquid penetrant inspection of fasteners***

FA/527      ASTM E1417

***Magnetic particle inspection of fasteners***

FA/485      ASTM E1444

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****NVLAP LAB CODE 200316-0****ASC geoscience, inc.**

3055 Drane Field Road  
Lakeland, FL 33811-1332  
Contact: Mr. Anu Saxena, P.E.  
Phone: 941-644-8300  
Fax: 941-644-8203

**Construction Materials Testing**

Accreditation Valid Through: June 30, 1999

**NVLAP**

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Aggregates**

02/A03	ASTM C29
02/A07	ASTM C117
02/A09	ASTM C127
02/A12	ASTM C136

**Concrete**

02/A01	ASTM C39
02/A02	ASTM C617
02/A40	ASTM C78
02/A43	ASTM C1064
02/A45	ASTM C42
02/G01	ASTM C31/C172/C143/C138/C231
02/G02	ASTM C173

**Road and Paving Materials**

02/M07	ASTM D546
02/M08	ASTM D979
02/M19	ASTM D2172
02/M24	ASTM D2041

**Soil and Rock**

02/L04	ASTM D698
02/L06	ASTM D1140
02/L07	ASTM D1556
02/L08	ASTM D1557
02/L12	ASTM D2168
02/L20	ASTM D4318
02/L23	ASTM D2922
02/L25	ASTM D3017

**Standard Practices**

02/M26	ASTM D3666
--------	------------

**NVLAP LAB CODE 200317-0****Raytheon Technical Services Co. EMI Laboratory**

6125 E. 21st Street, M/S 60  
Indianapolis, IN 46219-2058  
Contact: Mr. Keith Hines  
Phone: 317-306-7484  
Fax: 317-306-3690

**MIL-STD-462 Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Conducted Emissions:**

12/A06	MIL-STD-462 Method CE03
--------	-------------------------

**Conducted Susceptibility:**

12/B01	MIL-STD-462 Method CS01
12/B02	MIL-STD-462 Method CS02
12/B05	MIL-STD-462 Method CS06

**Radiated Emissions:**

12/D02	MIL-STD-462 Method RE02
--------	-------------------------

**Radiated Susceptibility:**

12/E02	MIL-STD-462 Method RS02
12/E03	MIL-STD-462 Method RS03 (Consult laboratory for field strengths available)

**NVLAP LAB CODE 200318-0****Motorola PPG Compliance Laboratory**

1500 Gateway Boulevard, M/S 75  
Boynton Beach, FL 33426  
Contact: Mr. Mac Elliott, III  
Phone: 561-739-3792  
Fax: 561-739-2341  
E-Mail: FME001@email.mct.com

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01b	Radiated Emissions

**NVLAP LAB CODE 200319-0****TDK Corporation's Chikumagawa Open Site**

543 Otai  
Saku-shi, Nagano-ken 389-0209  
JAPAN  
Contact: Mr. Akira Bando  
Phone: 011-81-47-378-9190  
Fax: 011-81-47-378-9780  
E-Mail: HFE00246@niftyserve.or.jp

**FCC Test Methods**

Accreditation Valid Through: June 30, 1999

**NVLAP**

<i>Code</i>	<i>Designation</i>
-------------	--------------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51	AS/NZS 3548
--------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22	IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment
----------	---



---

NVLAP LAB CODE 200320-0

**Modern Plating Corporation**

P.O. Box 838, South Hancock Avenue  
Freeport, IL 61032-0838  
Contact: Mr. Daniel James Mauer  
Phone: 815-235-3111  
Fax: 815-235-4571

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

NVLAP

Code      Designation

**Chemical Analysis**

*Solution chemical analysis*

FA/969      MPC AA Work Instructions

**Dimensional Inspection**

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/404      ANSI/ASME B18.18.2M

*Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap*

FA/405      ANSI/ASME B18.18.3M

FA/406      ANSI/ASME B18.18.4M

**Mechanical and Physical Testing and Inspection**

*Adhesion of metallic coatings on fasteners*

FA/143      ASTM B571

*Measurement of fastener coating thickness - X-ray methods*

FA/556      ASTM B568

*Measurement of fastener coating thickness - eddy-current method*

FA/148      ASTM B244

*Measurement of fastener coating thickness - magnetic methods*

FA/153      ASTM B499

*Measurement of fastener coating thickness - weight of coating*

FA/970      MPC Coating Weight Work Instructions

*Salt spray testing of fasteners*

FA/166      ASTM B117

---

NVLAP LAB CODE 200321-0

**Binder Metal Products, Inc.**

14909 South Broadway  
Gardena, CA 90248  
Contact: Mr. Bill Weber  
Phone: 213-321-4835  
Fax: 310-532-2936

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

NVLAP

Code      Designation

**Dimensional Inspection**

*Dimensions of fasteners - flatness*

FA/975      ASME Y14.5M

FA/976      Binder QAI 0007

**Mechanical and Physical Testing and Inspection**

*Hardness preparation*

FA/482      ASTM F606

*Measurement of fastener coating thickness - eddy-current method*

FA/977      Binder QAI 0005

*Rockwell hardness of fasteners*

FA/197      ASTM E18

FA/978      Binder QAI 0006

---

NVLAP LAB CODE 200323-0

**ALAC**

810 Pelham Pkwy. South, Suite 5F  
Bronx, NY 10462  
Contact: Mr. Aleksandr Knobel  
Phone: 718-828-1308  
Fax: 718-239-2896

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

---

NVLAP LAB CODE 200324-0

**Clark Seif Clark, Inc.**

21732 Devonshire Street, 2nd Floor  
Chatsworth, CA 91311  
Contact: Mr. Christian Goerrissen  
Phone: 818-727-2553  
Fax: 818-727-2556

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

---

NVLAP LAB CODE 200325-0

**TEC-AN, Inc.**

3535 N.W. 58th Street, Suite 470E  
Oklahoma City, OK 73112  
Contact: Mr. Donald J. Nist  
Phone: 405-943-3358  
Fax: 405-943-0363

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200326-0

**Hadd-Co Inspection Lab**

2420 Amsler Street  
Torrance, CA 90505-5302  
Contact: Mr. George Haddad  
Phone: 310-325-7620  
Fax: 310-325-9655

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code      Designation*

**Nondestructive Inspection**

*Liquid penetrant inspection of fasteners*

FA/366    AMS 2645  
FA/370    MIL-STD-271  
FA/371    MIL-STD-6866  
FA/527    ASTM E1417  
FA/987    ASTM E1208  
FA/988    ASTM E1209  
FA/989    MIL-I-6866

*Magnetic particle inspection of fasteners*

FA/374    ASTM E709  
FA/376    MIL-STD-271  
FA/377    MIL-STD-1949  
FA/485    ASTM E1444  
FA/990    MIL-I-6868

NVLAP LAB CODE 200327-0

**Saturn Fasteners, Inc.**

425 South Varney Street  
Burbank, CA 91502  
Contact: Mr. Robert P. Whitley  
Phone: 818-846-7145  
Fax: 818-846-7306

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code      Designation*

**Dimensional Inspection**

*Dimensions of fasteners - hexagon and double hexagon (12 point) and spline sockets*

FA/972    NAS 4002  
FA/973    NAS 624-644

*Dimensions of fasteners - straightness*

FA/974    NAS 4002

*External thread parameters - SAE fastener with MJ metric screw threads*

FA/693    FED-STD-H28/20

*External thread parameters - system 21*

FA/380    FED-STD-H28/20

*External thread parameters - system 22*

FA/382    FED-STD-H28/20

*External thread parameters - system 23*

FA/386    FED-STD-H28/20

*Surface texture*

FA/439    ANSI/ASME B46.1

**Mechanical and Physical Testing and Inspection**

*Bend test of full size eyebolts*

FA/971    MIL-B-6812 Section 4.5.4

*Breaking strength of fullsize eyebolts*

FA/508    MIL-STD-1312-8

*Double shear of externally threaded fasteners*

FA/257    MIL-STD-1312-13

*Fatigue of full-size threaded fasteners*

FA/183    MIL-STD-1312-11

*Hydrogen embrittlement (stress durability) of externally threaded fasteners*

FA/176    MIL-STD-1312-5

*Magnetic permeability*

FA/214    ASTM A342 Test Method 3

*Measurement of fastener coating thickness - dimensional change method*

FA/495    MIL-STD-1312-12

*Measurement of fastener coating thickness - eddy-current method*

FA/152    MIL-STD-1312-12

*Microhardness of fasteners*

FA/189    ASTM E384

*Recess strength test in both the installation and removal directions*

FA/476    MIL-STD-1312-25

*Rockwell hardness of fasteners*

FA/201    MIL-STD-1312-6

*Rockwell superficial hardness of fasteners*

FA/209    MIL-STD-1312-6

*Tension testing of machined specimens from externally threaded fasteners*

FA/475    ASTM E8

*Wedge tensile strength of full-size threaded fasteners*

FA/290    ASTM F606 Sec. 3.5

**Metallography**

*Decarburization and case depth measurement in fasteners*

FA/483    ASTM A574 Sec. 12

*Determination of grain size of fasteners*

FA/331    ASTM E112

*Macroscopic examination of fasteners by etching*

FA/511    ASTM E340

*Microscopic examination of fasteners by etching*

FA/341    ASTM E1077

*Surface discontinuities of externally threaded fasteners*

FA/357    ASTM F788/788M

NVLAP LAB CODE 200328-0

**Prospect Testing Labs, Inc.**

1245 Forest Avenue  
Des Plaines, IL 60018  
Contact: Mr. Seung W. Lyu  
Phone: 847-827-4766  
Fax: 847-299-6222

**Fasteners & Metals**

Accreditation Valid Through: March 31, 1999

**NVLAP**

Code      Designation

**Chemical Analysis**

*Optical emission spectrochemical analysis*

FA/457      ASTM E415  
FA/459      ASTM E1086  
FA/460      ASTM E1251

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/266      ASTM F606 Sec. 3.4.1-3.4.3  
FA/273      SAE J429  
FA/530      ASTM E8  
FA/799      NASM 1312-8

*Hydrogen embrittlement (stress durability) of externally threaded fasteners*

FA/875      NASM 1312-5  
FA/924      ASTM F606  
FA/967      GM 6010M

*Hydrogen embrittlement (stress durability) of internally threaded fasteners*

FA/968      GM 6010M

*Intergranular corrosion susceptibility in austenitic stainless steel fasteners - nitric acid*

FA/173      ASTM A262 Sec. 15-21, Practice C

*Intergranular corrosion susceptibility of austenitic stainless steel fasteners - oxalic acid*

FA/174      ASTM A262 Sec. 3-7, Practice A

*Measurement of fastener coating thickness - microscopical method*

FA/160      ASTM B487  
FA/873      NASM 1312-12

*Measurement of fastener coating thickness - weight of coating*

FA/164      ASTM A90

*Microhardness of fasteners*

FA/189      ASTM E384

*Proof load of full-size externally threaded fasteners*

FA/226      ASTM F606 Sec. 3.2.1-3.2.3  
FA/229      SAE J429

*Proof load of internally threaded fasteners (nuts)*

FA/236      ASTM F606 Sec. 4.2  
FA/241      SAE J995 Sec. 5.1

*Rockwell hardness of fasteners*

FA/197      ASTM E18

*Rockwell superficial hardness of fasteners*

FA/205      ASTM E18

*Torque-tension of full-size threaded fasteners*

FA/882      NASM 1312-15

*Torsional strength test of thread rolling and self-drilling tapping screws*

FA/252      ASTM F738M  
FA/751      SAE J933  
FA/966      ASTM F880M

*Wedge tensile strength of full-size threaded fasteners*

FA/290      ASTM F606 Sec. 3.5  
FA/468      SAE J429

**Metallography**

*Decarburization and case depth measurement in fasteners*

FA/323      ASTM E1077  
FA/328      SAE J121

*Determination of grain size of fasteners*

FA/331      ASTM E112

*Macroscopic examination of fasteners by etching*

FA/551      ASTM E3

*Microscopic examination of fasteners by etching*

FA/552      ASTM E3

*Surface discontinuities of externally threaded fasteners*

FA/361      SAE J123  
FA/362      SAE J1061

*Surface discontinuities of internally threaded fasteners*

FA/365      SAE J122

NVLAP LAB CODE 200329-0

**Fabrasteel Products Inc.**

22100 Trolley Industrial Drive  
Taylor, MI 48180  
Contact: Ms. Michelle Stawowy  
Phone: 313-299-1178  
Fax: 313-299-1190

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

**NVLAP**

Code      Designation

**Dimensional Inspection**

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/403      ANSI/ASME B18.18.1M  
FA/404      ANSI/ASME B18.18.2M

*External thread parameters - SAE fastener with MJ metric screw threads*

FA/662      ISO 1502

*External thread parameters - system 21*

FA/379      ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381      ANSI/ASME B1.3M

*Internal thread parameters - ISO*

FA/402      ISO 1502

---

**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued**

---

***Internal thread parameters - system 21***

FA/391 ANSI/ASME B1.3M

***Internal thread parameters - system 22***

FA/393 ANSI/ASME B1.3M

***Mechanical and Physical Testing and Inspection******Microhardness of fasteners***

FA/189 ASTM E384

***Rockwell hardness of fasteners***

FA/196 ASTM A370 Sec. 18

FA/197 ASTM E18

FA/200 ISO 6508

FA/202 SAE J417

***Rockwell superficial hardness of fasteners***

FA/205 ASTM E18

FA/206 ASTM A370 Sec. 18

***Metallography******Decarburization and case depth measurement in fasteners***

FA/323 ASTM E1077

FA/324 ISO 898-1

FA/325 ISO 898-5

FA/328 SAE J121

FA/329 SAE J419

FA/758 SAE J121M

***Macroscopic examination of fasteners by etching***

FA/334 ISO 6157-1

FA/335 ISO 6157-3

FA/336 SAE J123

FA/337 SAE J1061

***Microscopic examination of fasteners by etching***

FA/341 ASTM E1077

FA/342 ISO 898-1

FA/343 ISO 898-5

FA/344 SAE J121

FA/471 SAE J419

FA/759 SAE J121M

***Surface discontinuities of externally threaded fasteners***

FA/357 ASTM F788/788M

FA/358 ASTM F788M

FA/359 ISO 6157-1

FA/360 ISO 6157-3

FA/361 SAE J123

FA/362 SAE J1061

***Surface discontinuities of internally threaded fasteners***

FA/363 ASTM F812

FA/364 ASTM F812M

FA/365 SAE J122

---

**NVLAP LAB CODE 200331-0****HomeTek Technology Inc.**

No. 85-5 Shir Men Rd., Tu Cheng City

Taipei Shien 236

TAIWAN

Contact: Mr. Grant Huang

Phone: 886-2-22608375

Fax: 886-2-22748013

E-Mail: hometek@ms15.hinet.net

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

***Australian Standards referred to by clauses in AUSTEL Technical Standards***

12/T51 AS/NZS 3548

***Federal Communications Commission (FCC) Methods***

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz

12/F01b Radiated Emissions

***International Special Committee on Radio Interference (CISPR) Methods***

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

---

**NVLAP LAB CODE 200333-0****EMSL Analytical, Inc.**

175 Clearbrook Road

Cross West Chester Executive Plaza

Elmsford, NY 10523

Contact: Mr. Robert Georgens

Phone: 914-592-4688

Fax: 914-592-6798

URL: <http://www.emsl.com>**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999



NVLAP LAB CODE 200335-0

**Hygeia Laboratories, Inc.**

9955 NW 116 Way, Suite 1  
Miami, FL 33178  
Contact: Mr. Julio Lopez  
Phone: 305-882-8200  
Fax: 305-882-1200  
E-Mail: LOPEZ31@ATC-ENVIRO.COM

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200336-0

**Pratt & Whitney Materials Control Laboratory**

400 Main Street, Mail Stop 184-25  
East Hartford, CT 06108  
Contact: Mr. Donald J. Baron  
Phone: 860-565-2857  
Fax: 860-565-2897  
E-Mail: barondj@pweh.com

**Fasteners & Metals**

Accreditation Valid Through: June 30, 1999

*NVLAP*

*Code      Designation*

**Chemical Analysis**

*Combustion analysis for carbon, sulfur, oxygen, nitrogen, and hydrogen*

FB/1024    P&W M-165  
FB/1025    P&W M-166  
FB/1026    P&W M-175

*Energy dispersive X-ray analysis*

FB/1030    P&W N-51

*Optical emission spectrochemical analysis*

FB/1027    P&W M-186  
FB/1028    P&W N-11

*X-ray fluorescence (XRF) spectrochemical analysis*

FB/1029    P&W N-60

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FB/1018    P&W K-32

*Brinell hardness of fasteners*

FB/1009    P&W E-O Supp C

*Charpy impact (v-notch) testing*

FB/1014    P&W K-162

*Fatigue of full-size threaded fasteners*

FB/1008    P&W K-317

*Flareability test of clinch and shank nuts*

FB/1006    P&W K-309

*Microhardness of fasteners*

FB/1010    P&W E-O Supp C

*Proof load of full-size externally threaded fasteners*

FB/1015    P&W K-32

*Proof load of internally threaded fasteners (nuts)*

FB/1016    P&W K-32

*Rockwell hardness of fasteners*

FB/1011    P&W E-O Supp C

*Rockwell superficial hardness of fasteners*

FB/1012    P&W E-O Supp C

*Salt spray testing of fasteners*

FB/1007    P&W P-23

*Stress rupture of fasteners*

FB/1017    P&W E-1107

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FB/1013    P&W E-O Supp C

**Metallography**

*Decarburization and case depth measurement in fasteners*

FB/1019    P&W E-23

*Determination of grain size of fasteners*

FA/331    ASTM E112

*Macroscopic examination of fasteners by etching*

FB/1020    P&W K-76

*Microscopic examination of fasteners by etching*

FB/1021    P&W E-23

*Surface discontinuities of externally threaded fasteners*

FB/1022    P&W E-23

FB/1023    P&W E-242

NVLAP LAB CODE 200337-0

**IBM Charlotte EMC Facility**

8501 IBM Drive, MG 22-202  
Charlotte, NC 28262-8563  
Contact: Mr. Donald B. Steigerwalt  
Phone: 704-594-1533  
Fax: 704-594-7376  
E-Mail: dsteigerwalt@vnet.ibm.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code      Designation*

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51    AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01    FCC Method - 47 CFR Part 15 - Digital Devices

12/F01a    Conducted Emissions, Power Lines, 450 KHz to 30 MHz

*International Special Committee on Radio Interference*

*(CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200339-0**

**Incotec Laboratory**

1391 Poole Street  
Mojave, CA 93501  
Contact: Mr. Winston E. Wade  
Phone: 805-824-8101  
Fax: 805-824-1558

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

**Mechanical and Physical Testing and Inspection**

*Adhesion of metallic coatings on fasteners*

FA/532 BMS 10-85M Sec. 8.2  
FA/779 BSS 7225  
FA/996 ASTM D4541  
FA/997 HS 292  
FA/998 HS 294  
FA/999 NAS 4006

*Adhesion of nonmetallic coatings on fasteners*

FA/991 BSS 7225  
FA/992 HS 292

*Coating endurance*

FA/995 ASTM D2625

*Copper sulfate test - test for free iron on the surface of corrosion resistant fasteners*

FA/636 MIL-STD-753 Test 102

*Elevated temperature testing capability*

FB/1001 BMS 10-85  
FB/1002 BSS 7225

*Film hardness*

FA/993 BMS 10-85M  
FA/994 ASTM D3363

*Humidity testing of fasteners*

FA/169 MIL-STD-753 Test Method 101  
FA/548 ASTM D2247

*Measurement of fastener coating thickness - dimensional change method*

FA/495 MIL-STD-1312-12

*Measurement of fastener coating thickness - microscopical method*

FA/163 MIL-STD-1312-12

*Salt spray testing of fasteners*

FA/166 ASTM B117  
FB/1000 ASTM G85

*Water immersion method - test for anodic surface containment on corrosion resistant fasten*

FA/756 MIL-STD-753 Test 100

**NVLAP LAB CODE 200340-0**

**Diversified T.E.S.T. Technologies, Inc.**

556 Route 222, P.O. Box 8  
Groton, NY 13073  
Contact: Mr. Thomas P. Sims  
Phone: 607-898-4218  
Fax: 607-898-4830  
E-Mail: tom@diversifiedtechnol.com  
URL: http://diversifiedtechnol.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code Designation*

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital Devices  
12/F01a Conducted Emissions, Power Lines, 450 KHz to 30 MHz  
12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

**NVLAP LAB CODE 200341-0**

**United Steel and Fasteners Inc.**

1500 Industrial Drive  
Itasca, IL 60143  
Contact: Mr. Antonio Zaccari  
Phone: 630-250-0900  
Fax: 630-250-0220  
E-Mail: us\_f@msn.com

**Fasteners & Metals**

Accreditation Valid Through: September 30, 1999

*NVLAP*

*Code Designation*

**Dimensional Inspection**

*Dimensions of fasteners - bearing surface squareness*

FA/745 ANSI B18.2.1

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/494 ANSI B18.2.1

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/266 ASTM F606 Sec. 3.4.1-3.4.3  
FA/273 SAE J429

*Proof load of full-size externally threaded fasteners*

FA/226 ASTM F606 Sec. 3.2.1-3.2.3  
FA/229 SAE J429

*Rockwell hardness of fasteners*

FA/202 SAE J417  
FA/482 ASTM F606

*Tension testing of machined specimens from externally threaded fasteners*

FA/279 ASTM F606 Sec. 3.6  
FA/283 SAE J429

NVLAP LAB CODE 200344-0

**EMSL Analytical Mobile Laboratory**

4444 West Haddon Avenue  
Chicago, IL 60651  
Contact: Ms. Lee Harbour  
Phone: 773-235-1409  
Fax: 773-235-1434

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 200345-0

**Ricoh Company LTD. Ohmori Acoustics Test Site**

3-6, 1 Chome, Nakamagome, Ohta-ku  
Tokyo 143-8555  
JAPAN  
Contact: Mr. Yuji Noritake  
Phone: 03-3777-8183  
Fax: 03-3777-0811  
E-Mail: yuji.noritake@nts.ricoh.co.jp

**Acoustical Testing Services**

Accreditation Valid Through: September 30, 1999

NVLAP  
Code Designation

08/P24 ANSI S12.10 (ISO 7779)

NVLAP LAB CODE 200346-0

**SCILAB California, Inc.**

24416 South Main Street, Suite 308  
Carson, CA 90745  
Contact: Mr. Roobik Yaghoubi  
Phone: 310-834-4868  
Fax: 310-834-4772

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: December 31, 1999

NVLAP LAB CODE 200347-0

**Quietek Corporation**

12F-4, No. 333, Sec. 1, Guan-Fu Road  
Hsin-Chu City  
TAIWAN  
Contact: Mr. Gene Chang  
Phone: 886-3-5928858  
Fax: 886-3-5928859  
E-Mail: genecha@ms6.hinet.net

**FCC Test Methods**

Accreditation Valid Through: September 30, 1999

NVLAP  
Code Designation

*Australian Standards referred to by clauses in AUSTEL Technical Standards*

12/T51 AS/NZS 3548

*Federal Communications Commission (FCC) Methods*

12/F01 FCC Method - 47 CFR Part 15 - Digital  
Devices

12/F01a Conducted Emissions, Power Lines, 450 KHz  
to 30 MHz

12/F01b Radiated Emissions

*International Special Committee on Radio Interference (CISPR) Methods*

12/CIS22 IEC/CISPR 22:1993: Limits and methods of  
measurement of radio disturbance  
characteristics of information technology  
equipment

NVLAP LAB CODE 200349-0

**Crisp Analytical Laboratory**

2081 Hutton Drive, Suite 309  
Carrollton, TX 75006  
Contact: Mr. David Bertolacci  
Phone: 972-488-1414  
Fax: 972-488-8006

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: September 30, 1999



NVLAP LAB CODE 200350-0

**White Environmental Consultants, Inc.**

1130 N. Nimitz Hwy. #3220  
Honolulu, HI 96817  
Contact: Mr. Jim Willard  
Phone: 808-536-8819  
Fax: 808-536-0191  
E-Mail: weclabs@gte.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

NVLAP LAB CODE 200353-0

**Alloy & Stainless Testing**

1493 London Bridge Road  
Virginia Beach, VA 23456  
Contact: Mr. Randy Earles  
Phone: 757-427-0111 x111  
Fax: 757-427-2658  
E-Mail: RAEARLES@AOL.COM

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code Designation

**Dimensional Inspection**

*Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap*

FA/963 ANSI B18.2.1

*External thread parameters - system 21*

FA/379 ANSI/ASME B1.3M

*External thread parameters - system 22*

FA/381 ANSI/ASME B1.3M

*Internal thread parameters - system 21*

FA/391 ANSI/ASME B1.3M

NVLAP LAB CODE 200356-0

**M&M Manufacturing Corporation**

5611 Kimball Court  
Chino, CA 91710  
Contact: Ms. Wendy McBride  
Phone: 909-597-7211  
Fax: 909-597-0881

**Fasteners & Metals**

Accreditation Valid Through: December 31, 1999

*NVLAP*

Code Designation

**Dimensional Inspection**

*Dimensions of fasteners - straightness*

FA/423 ANSI/ASME B18.2.1

*Dimensions of general purpose fasteners and high-volume machine assembly fasteners*

FA/403 ANSI/ASME B18.18.1M

FA/404 ANSI/ASME B18.18.2M

*Dimensions of special purpose fasteners and fasteners for highly specialized engineered ap*

FA/405 ANSI/ASME B18.18.3M

FA/406 ANSI/ASME B18.18.4M

*External thread parameters - system 22*

FA/382 FED-STD-H28/20

*Surface texture*

FA/439 ANSI/ASME B46.1

**Mechanical and Physical Testing and Inspection**

*Axial tensile strength of full-size threaded fasteners*

FA/271 MIL-STD-1312-8

*Double shear of externally threaded fasteners*

FA/257 MIL-STD-1312-13

*Hydrogen embrittlement (stress durability) of externally threaded fasteners*

FA/176 MIL-STD-1312-5

*Measurement of fastener coating thickness - dimensional change method*

FA/495 MIL-STD-1312-12

*Measurement of fastener coating thickness - microscopical method*

FA/163 MIL-STD-1312-12

*Microhardness of fasteners*

FA/193 MIL-STD-1312-6

*Recess strength test in both the installation and removal directions*

FA/476 MIL-STD-1312-25

*Rockwell hardness of fasteners*

FA/201 MIL-STD-1312-6

*Rockwell superficial hardness of fasteners*

FA/209 MIL-STD-1312-6

*Single shear of externally threaded fasteners*

FA/256 MIL-STD-1312-20

*Vickers hardness - test forces from 9.807 to 1176 N (1 to 120 kgf)*

FA/671 MIL-STD-1312-6

**Metallography**

*Decarburization and case depth measurement in fasteners*

FA/323 ASTM E1077

*Determination of grain size of fasteners*

FA/331 ASTM E112

*Macroscopic examination of fasteners by etching*

FA/511 ASTM E340

FA/651 ASTM F788/788M

*Microscopic examination of fasteners by etching*

FA/341 ASTM E1077

FA/345 ASTM F788/788M

FA/351 ASTM E112

FA/512 ASTM E407

FA/552 ASTM E3

FA/679 ASTM A574



**INDEX D. LISTING OF TESTING LABORATORIES BY NVLAP LAB CODE - continued****Surface discontinuities of externally threaded fasteners**

FA/357 ASTM F788/788M

**Nondestructive Inspection****Liquid penetrant inspection of fasteners**

FA/527 ASTM E1417

**Magnetic particle inspection of fasteners**

FA/485 ASTM E1444

**NVLAP LAB CODE 200357-0****AGRA Earth and Environmental, Inc. - Env.****Chemistry Laboratory**

7477 SW Tech Center Dr.  
Portland, OR 97223-8025  
Contact: Mr. Sean F. Gormley  
Phone: 503-639-3400  
Fax: 503-620-7892  
E-Mail: sgormley@agrans.com

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

**NVLAP LAB CODE 200358-0****Patriot Environmental Laboratory Services**

12752 Valley View St., Suite C  
Garden Grove, CA 92845  
Contact: Mr. James Thornbrugh, II  
Phone: 714-899-8900  
Fax: 714-899-7098  
E-Mail: JThornbrugh@earthlink.net

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: September 30, 1999

**NVLAP LAB CODE 200361-0****Architectural Testing Inc.**

130 Derry Ct.  
York, PA 17402  
Contact: Mr. Eric J. Miller  
Phone: 717-764-7700  
Fax: 717-764-4129  
E-Mail: ati.york@worldnet.att.net

**Acoustical Testing Services**

Accreditation Valid Through: September 30, 1999

**NVLAP**

Code	Designation
------	-------------

08/P03	ASTM C423 (ISO 354)
08/P06	ASTM E90 (ISO 140, Part 3)
08/P30	ASTM E1408
08/P31	ASTM E336
08/P37	ASTM E966
08/P43	ASTM E1425

**NVLAP LAB CODE 200362-0****TEAC Corporation EMC Center**

857 Koyata, Iruma-shi  
Saitama-ken 358-851  
Iruma-shi 81-358-8510  
JAPAN  
Contact: Mr. Daihachiro Takasu  
Phone: 81-42-462-7159  
Fax: 81-42-963-7153  
E-Mail: d-takasu@it.teac.co.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**NVLAP LAB CODE 200363-0****Sun Microsystems, Inc. EMC Testing**

901 San Antonio Road  
MS UMPK25-101  
Palo Alto, CA 94303-4900  
Contact: Mr. Hugh Hagel  
Phone: 650-786-3215  
Fax: 650-786-4316  
E-Mail: Hugh.Hagel@sun.com

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

**NVLAP**

Code	Designation
------	-------------

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51 AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22 IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200368-0

**Sony Minokamo EMC Site**  
9-15-22, Hongo-cho Minokamo City  
Gifu-Pref. 505-8510  
JAPAN  
Contact: Mr. Kazuo Takarajima  
Phone: 81-574-25-8161  
Fax: 81-574-28-8087  
E-Mail: takarajm@mkm.sony.co.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code          Designation*

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

NVLAP LAB CODE 200373-0

**Fujitsu General EMC Laboratory**

1116, Suenaga, Takatsu-ku  
Kawasaki 213-8502  
JAPAN  
Contact: Mr. Hiroyuki Shimanoe  
Phone: 81-44-861-7897  
Fax: 81-44-861-9890  
E-Mail: shimanoe@fujitsugeneral.co.jp

**FCC Test Methods**

Accreditation Valid Through: December 31, 1999

*NVLAP*

*Code          Designation*

**Australian Standards referred to by clauses in AUSTEL Technical Standards**

12/T51      AS/NZS 3548

**Federal Communications Commission (FCC) Methods**

12/F01	FCC Method - 47 CFR Part 15 - Digital Devices
12/F01a	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/F01b	Radiated Emissions

**International Special Committee on Radio Interference (CISPR) Methods**

12/CIS22    IEC/CISPR 22:1993: Limits and methods of measurement of radio disturbance characteristics of information technology equipment

NVLAP LAB CODE 200374-0

**EnviroHealth Technologies, Inc.**  
3830 Washington Boulevard, Suite 123  
St. Louis, MO 63108  
Contact: Mr. William J. Lowry  
Phone: 314-531-9868  
Fax: 314-531-9196

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: June 30, 1999

NVLAP LAB CODE 200375-0

**EMSL Analytical, Inc.**

11931 Industriplex, Suite 100  
Baton Rouge, LA 70809  
Contact: Mr. Arthur Hernandez, Jr.  
Phone: 225-755-1920  
Fax: 225-755-1989

URL: <http://www.emsl.com>

**Bulk Asbestos Analysis (PLM)**

Accreditation Valid Through: December 31, 1999

**Airborne Asbestos Analysis (TEM)**

Accreditation Valid Through: December 31, 1999

INDEX

E

LISTING OF  
CALIBRATION  
LABORATORIES  
BY NVLAP  
LAB CODE





NVLAP LAB CODE 105600-0

OAK RIDGE METROLOGY CENTER  
 P.O. Box 2009  
 Oak Ridge, TN 37831-7670  
 Contact: Mr. W. T. (Bill) McKeethan  
 Phone: 423-574-2707 Fax: 423-574-2802  
 E-Mail: wmt@ornl.gov  
 URL: <http://www.ornl.gov/orcmt/mfgqual>

Accreditation Valid Through: March 31, 1999

**DIMENSIONAL**

**NVLAP Code:** 20/D05

Length

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 - 1.35 m	(0.3 + 0.4L) micrometers; L is length in meters	Step and End Gages using M-60 Coordinate Measuring Machine
0 - 1.2 m	(0.3 + 0.4L) micrometers; L is length in meters	Step and End Gages using M-48 Coordinate Measuring Machine

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$

## RICE LAKE WEIGHING SYSTEMS

230 West Coleman Street

P.O. Box 272

Rice Lake, WI 54868

Contact: Mr. Richard Calkins

Phone: 715-234-9171 x243 Fax: 715-234-6967

E-Mail: riccal@rlws.com

URL: <http://www.rlws.com>

Accreditation Valid Through: March 31, 1999

## MECHANICAL

NVLAP Code: 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
30 kg	6.5 mg	Class I Facility
20 kg	6.4 mg	Class I Facility
10 kg	1.5 mg	Class I Facility
5 kg	0.78 mg	Class I Facility
3 kg	0.52 mg	Class I Facility
2 kg	0.36 mg	Class I Facility
1 kg	0.050 mg	Class I Facility
500 g	0.035 mg	Class I Facility
300 g	0.028 mg	Class I Facility
200 g	0.027 mg	Class I Facility
100 g	0.030 mg	Class I Facility
50 g	0.0165 mg	Class I Facility
30 g	0.0111 mg	Class I Facility
20 g	0.0089 mg	Class I Facility
10 g	0.0084 mg	Class I Facility
5 g	0.0052 mg	Class I Facility
3 g	0.0039 mg	Class I Facility
2 g	0.0035 mg	Class I Facility
1 g	0.0037 mg	Class I Facility
500 mg	0.00276 mg	Class I Facility
300 mg	0.00222 mg	Class I Facility
200 mg	0.00212 mg	Class I Facility
100 mg	0.00242 mg	Class I Facility
50 mg	0.00206 mg	Class I Facility

---

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
30 mg	0.00172 mg	Class I Facility
20 mg	0.00170 mg	Class I Facility
10 mg	0.00196 mg	Class I Facility
5 mg	0.00126 mg	Class I Facility
3 mg	0.00094 mg	Class I Facility
2 mg	0.00086 mg	Class I Facility
1 mg	0.00094 mg	Class I Facility
50 kg	304 mg	Class II Facility
30 kg	7 mg	Class II Facility
20 kg	6 mg	Class II Facility
10 kg	1.5 mg	Class II Facility
5 kg	0.78 mg	Class II Facility
3 kg	0.52 mg	Class II Facility
2 kg	0.36 mg	Class II Facility
1 kg	0.05 mg	Class II Facility
500 g	0.04 mg	Class II Facility
300 g	0.03 mg	Class II Facility
200 g	0.03 mg	Class II Facility
100 g	0.030 mg	Class II Facility
50 g	0.017 mg	Class II Facility
30 g	0.011 mg	Class II Facility
20 g	0.009 mg	Class II Facility
10 g	0.008 mg	Class II Facility
5 g	0.0052 mg	Class II Facility
3 g	0.0039 mg	Class II Facility
2 g	0.0035 mg	Class II Facility
1 g	0.0037 mg	Class II Facility
500 mg	0.003 mg	Class II Facility
300 mg	0.002 mg	Class II Facility
200 mg	0.002 mg	Class II Facility
100 mg	0.002 mg	Class II Facility
50 mg	0.002 mg	Class II Facility
30 mg	0.002 mg	Class II Facility
20 mg	0.002 mg	Class II Facility

---

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
10 mg	0.002 mg	Class II Facility
5 mg	0.001 mg	Class II Facility
3 mg	0.001 mg	Class II Facility
2 mg	0.001 mg	Class II Facility
1 mg	0.001 mg	Class II Facility
1000 kg	19 g	Class III Facility
500 kg	11 g	Class III Facility
200 kg	1.4 g	Class III Facility
100 kg	1.4 g	Class III Facility
50 kg	770 mg	Class III Facility
30 kg	12 mg	Class III Facility
20 kg	12 mg	Class III Facility
10 kg	1.5 mg	Class III Facility
5 kg	0.84 mg	Class III Facility
3 kg	0.59 mg	Class III Facility
2 kg	0.47 mg	Class III Facility
1 kg	0.062 mg	Class III Facility
500 g	0.051 mg	Class III Facility
300 g	0.046 mg	Class III Facility
200 g	0.045 mg	Class III Facility
100 g	0.031 mg	Class III Facility
50 g	0.017 mg	Class III Facility
30 g	0.012 mg	Class III Facility
20 g	0.012 mg	Class III Facility
10 g	0.011 mg	Class III Facility
5 g	0.005 mg	Class III Facility
3 g	0.004 mg	Class III Facility
2 g	0.004 mg	Class III Facility
1 g	0.004 mg	Class III Facility
500 mg	0.003 mg	Class III Facility
300 mg	0.002 mg	Class III Facility
200 mg	0.002 mg	Class III Facility
100 mg	0.003 mg	Class III Facility
50 mg	0.002 mg	Class III Facility



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
30 mg	0.002 mg	Class III Facility
20 mg	0.002 mg	Class III Facility
10 mg	0.002 mg	Class III Facility
5 mg	0.001 mg	Class III Facility
3 mg	0.001 mg	Class III Facility
2 mg	0.001 mg	Class III Facility
1 mg	0.001 mg	Class III Facility

NVLAP Code: 20/M08  
Mass Avoirdupois

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
2500 lb	52 g	Class III Facility
2000 lb	17 g	Class III Facility
1000 lb	6.5 g	Class III Facility
500 lb	1.4 g	Class III Facility
250 lb	1.4 g	Class III Facility
200 lb	1.4 g	Class III Facility
100 lb	49 mg	Class III Facility
50 lb	14 mg	Class III Facility
30 lb	12 mg	Class III Facility
25 lb	23 mg	Class III Facility
20 lb	2.2 mg	Class III Facility
10 lb	1.1 mg	Class III Facility
5 lb	0.63 mg	Class III Facility
4 lb	0.97 mg	Class III Facility
3 lb	0.47 mg	Class III Facility
2 lb	0.10 mg	Class III Facility
1 lb	0.06 mg	Class III Facility
0.5 lb	0.05 mg	Class III Facility
0.3 lb	0.045 mg	Class III Facility
0.2 lb	0.025 mg	Class III Facility
0.1 lb	0.028 mg	Class III Facility
0.05 lb	0.016 mg	Class III Facility
0.03 lb	0.012 mg	Class III Facility
0.02 lb	0.010 mg	Class III Facility

---

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.01 lb	0.007 mg	Class III Facility
0.005 lb	0.004 mg	Class III Facility
0.003 lb	0.003 mg	Class III Facility
0.002 lb	0.003 mg	Class III Facility
0.001 lb	0.003 mg	Class III Facility
4 oz	0.045 mg	Class III Facility
2 oz	0.025 mg	Class III Facility
1 oz	0.027 mg	Class III Facility
1/2 oz	0.016 mg	Class III Facility
1/4 oz	0.010 mg	Class III Facility
1/8 oz	0.008 mg	Class III Facility
1/16 oz	0.008 mg	Class III Facility
1/32 oz	0.008 mg	Class III Facility

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$

NVLAP LAB CODE 105002-0

**SANDIA NATIONAL LABORATORIES**

Primary Electrical Standard Dept. 1542  
P.O. Box 5800, Mail Stop 0665  
Albuquerque, NM 87185-0665  
Contact: Dr. Richard B. Pettit  
Phone: 505-844-6242 Fax: 505-844-4372  
E-Mail: rbpetti@sandia.gov  
URL: <http://www.sandia.gov/psl>

Accreditation Valid Through: December 31, 1999

**DIMENSIONAL**

*NVLAP Code:* 20/D01

Angular

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in percent<sup>note 1</sup></i>	<i>Remarks</i>
Angle Blocks	0.60 arc second	Standard Sizes, 1 arc second to 45°
Optical Squares	0.46 arc second	
True Squares	0.28 arc second	

*NVLAP Code:* 20/D03

Gage Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in percent<sup>note 1,8</sup></i>	<i>Remarks</i>
to 100 mm (4 in)	30 nm + 0.14 L	Interferometry with Historical Analysis
to 100 mm (4 in)	34 nm + 0.33 L	Interferometry, single wiring
<1 mm (.04 in)	41 nm	Mechanical Comparison to Masters <sup>note 2,3,4</sup>
1 to 100 mm (.04 to 4 in)	35 nm + 0.59 L	Mechanical Comparison to Masters <sup>note 2,3,4</sup>
125 to 500 mm (5 to 20 in)	127 nm + 0.30 L	Mechanical Comparison to Masters <sup>note 2,3,4</sup>

---

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

---

## DC/LOW FREQUENCY

NVLAP Code: 20/E01

Voltage Converters

Range	Best Uncertainty ( $\pm$ ) in ppm <sup>note 1</sup>								
	Frequency in Hertz								
	10	100	1 k	20 k	50 k	100 k	200 k	500 k	1 M
1 V	102	20	23	17	26	42	71	73	75
2 V	101	18	17	21	27	42	72	71	73
3 V	102	16	18	17	27	42	71	73	75
4 V	101	17	17	19	30	42	71	71	72
6 V	101	16	16	17	27	41	72	74	76
10 V	101	16	18	18	27	41	72	73	74
12 V	101	18	18	16	27	42	72	72	73
20 V	104	19	16	17	30	41	72	76	78
30 V	102	17	16	16	27	42	71	76	77
40 V	101	17	16	19	27	41	73	76	77
60 V	101	23	16	17	27	42	71	71	74
100 V	101	19	16	17	28	43	73	75	75
120 V	102	22	21	22	31	52			
200 V	101	23	22	24	32	51			
300 V	103	29	25	25	34	56			
400 V	102	21	22	22	32	59			
600 V	102	23	22	21	33	57			
1000 V	104	31	29	31	43	69			

NVLAP Code: 20/E01

AC Current Shunts

Range	Frequency	Best Uncertainty ( $\pm$ ) in percent <sup>note 1</sup>
10 mA	50 kHz	0.010
25 mA	50 kHz	0.010
50 mA	50 kHz	0.010
100 mA	50 kHz	0.014
250 mA	50 kHz	0.010
500 mA	50 kHz	0.011
1 A	50 kHz	0.011
1 A	100 kHz	0.014
2.5 A	50 kHz	0.011



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Frequency</i>	<i>Best Uncertainty (<math>\pm</math>) in percent<sup>note 1</sup></i>	
5 A	50 Hz	0.009	
5 A	60 Hz	0.009	
5 A	50 kHz	0.011	
10 A	50 kHz	0.017	
20 A	50 Hz	0.013	
20 A	400 Hz	0.013	
20 A	1 kHz	0.013	
20 A	50 kHz	0.017	
<i>NVLAP Code: 20/E03</i>			
Capacitance Dividers - Pulsed High-Voltage Condition			
<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in percent<sup>note 1</sup></i>		<i>Remarks</i>
1 to 350 kV	2.0		1 to 30 $\mu$ s Pulse
<i>NVLAP Code: 20/E05</i>			
DC Resistance			
<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>		<i>Remarks</i>
0.0001 to 0.001	11		Low Resistance
0.001 to 0.01	4		Low Resistance
0.01 to 0.1	2.5		Low Resistance
0.1 to 1	2		Low Resistance
1	0.057		Thomas
1 to 10	1		
10 to 10 <sup>4</sup>	0.5		
10 k	0.15		SR104
10 <sup>5</sup>	2		
10 <sup>6</sup>	3		
10 <sup>7</sup>	5		
10 <sup>8</sup>	10		
10 <sup>8</sup>	240		with Teraohmeter
10 <sup>9</sup>	330		with Teraohmeter
10 <sup>10</sup>	470		with Teraohmeter
10 <sup>11</sup>	670		with Teraohmeter
10 <sup>12</sup>	1400		with Teraohmeter

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
10 <sup>13</sup>	2000	with Teraohmeter
10 <sup>14</sup>	3300	with Teraohmeter
10 <sup>15</sup>	6700	with Teraohmeter
10 <sup>16</sup>	7.0%	with Teraohmeter

## Special Resistors

2 and 5	0.5	Reichsanstalt
25 and 100	0.15	Tinsley
28.5	0.5	NBS

## Shunts

100 mA to 1000 A	2.5
------------------	-----

## NVLAP Code: 20/E06

### DC Voltage

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
1, 1.018 V	0.14	Josephson Array System
10.0 V	0.017	Josephson Array System
1.018 V	0.21	Standard Cell System
1.0 to 10.0 V	0.26	Zener Ref. System

### Voltage dividers - Potentiometer combination

1.5 V to 1500 V	2.5	Intermediate System
x1.0 range to 1.05 V	0.5 of reading +0.1 $\mu$ V	Potentiometer only,k=3
x1.0 range above 1.05 V	1.0 of reading +0.1 $\mu$ V	Potentiometer only,k=3
x0.1 range	1.5 of reading +0.01 $\mu$ V	Potentiometer only,k=3
x0.01 range	2.5 of reading +0.005 $\mu$ V	Potentiometer only,k=3

### High Voltage

to 100 kV	106	200 kV system
100 kV to 200 kV	140	200 kV system
to 10 kV	0.2%	10 kV system

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## Ratio/Bridges

1:1 to 1:100,000	$0.5 \times 10^7$ (ratio)	For ratio based on 20 step first dial (k=3). For bridges, uncertainty combines ratio and resistance uncertainties
------------------	---------------------------	---

NVLAP Code: 20/E08

Inductive Dividers

Range	Best Uncertainty ( $\pm$ ) in ppm <sup>note 1</sup>	Remarks
15, 35 and 100 V	55	@ 60,1 k and 10 kHz

NVLAP Code: 20/E10

LF Capacitance

Range	Best Uncertainty ( $\pm$ ) in ppm <sup>note 1</sup>	Remarks
0.01 to 1000 pF	5	@ 1 kHz

NVLAP Code: 20/E11

LF Inductance

Range	Best Uncertainty ( $\pm$ ) in percent <sup>note 1</sup>		
	Frequency in Hz		
	100	1 k	10 k
10 $\mu$ H	1.10	0.20	0.20
20 $\mu$ H	0.50	0.20	0.20
50 $\mu$ H	0.20	0.20	0.20
100 $\mu$ H	0.10	0.10	0.10
200 $\mu$ H	0.10	0.10	0.10
500 $\mu$ H	0.02	0.02	0.05
1 mH	0.02	0.02	0.06
2 mH	0.03	0.03	0.06
5 mH	0.03	0.03	0.06
10 mH	0.02	0.02	0.05
20 mH	0.02	0.02	0.05
50 mH	0.02	0.02	0.05
100 mH	0.02	0.02	0.05
200 mH	0.02	0.02	
500 mH	0.02	0.02	
1 H	0.02	0.05	
2 H	0.02	0.05	

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>100</i>	<i>1 k</i>
5 H	0.02	0.10
10 H	0.02	0.20

*NVLAP Code:* 20/E18

Resistive Dividers - Pulsed High-Voltage Condition

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in percent<sup>note 1</sup></i>	<i>Remarks</i>
1 to 350 kV	1.0	1 to 30 $\mu$ s Pulse

## TIME AND FREQUENCY

*NVLAP Code:* 20/F01

Frequency Dissemination

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1 MHz	1 part in $10^{12}$	
1 MHz	1 part in $10^{12}$	
5 MHz	1 part in $10^{12}$	
10 MHz	1 part in $10^{12}$	

## IONIZING RADIATION

*NVLAP Code:* 20/I04

Radioactive Sources

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Alpha Emission Rate		
1 to $2 \times 10^5$ /s into $2\pi$	1.6 %	
Beta Emission Rate		
50 to 5000 /s into $2\pi$	5.0 %	
Alpha Energy		
3 to 8 MeV	30 keV	

## MECHANICAL

*NVLAP Code:* 20/M06

Force

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in percent<sup>note 1, 2, 6</sup></i>	<i>Remarks</i>
100 to 1,000	0.0052	Primary Standard (Deadweight)
1,000 to 100,000	0.016	Secondary Standards (Proving Rings)
50 to 30,000	0.075	Secondary Standards (Load Cells) <sup>note 7</sup>



RF MICROWAVE

NVLAP Code: 20/R05

HF Capacitance

*Best Uncertainty ( $\pm$ ) in percent<sup>note 1</sup>*

*Frequency in Hz*

<i>Range in pF</i>	<i>100</i>	<i>1 k</i>	<i>10 k</i>	<i>100 k</i>	<i>1 M</i>
0.01		0.20		1.3	
0.1		0.05		1.3	
1		0.02		0.04	
10		0.01		0.02	
100		0.01		0.01	
1000		0.01		0.03	
1		0.02		0.2	0.30
2		0.02		0.35	0.60
5		0.02		0.22	0.26
10		0.10		0.14	0.15
20		0.10		0.13	0.11
50				0.03	0.02
100				0.02	0.02
200				0.01	0.01
500				0.02	0.01
1000				0.02	0.03
10		0.0001			
100		0.0001			
1	0.01	0.01	0.01	0.01	0.01
10	0.01	0.01	0.01	0.01	0.01
100	0.01	0.01	0.01	0.01	0.01
1000	0.01	0.01	0.01	0.01	0.01

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/R06

HF Inductance

Range	Best Uncertainty ( $\pm$ ) in percent <sup>note 1</sup>			
	Frequency in Hz			
	10 k	100 k	1 M	10 M
0.1 $\mu$ H		2.19	4.00	
0.2 $\mu$ H		2.03	2.03	
0.5 $\mu$ H		0.80	1.20	
1.0 $\mu$ H		0.56	0.92	
2.0 $\mu$ H		0.31	0.73	
5.0 $\mu$ H		0.25	0.68	
10 $\mu$ H		0.39	0.63	
25 $\mu$ H		0.32	0.16	
50 $\mu$ H		0.26	0.12	
100 $\mu$ H		0.24	0.11	
250 $\mu$ H		0.32	0.16	
500 $\mu$ H		0.26	0.09	
1 mH		0.24		
2.5 mH		0.25		
5 mH		0.24		
10 mH		0.29		
25 mH		0.25		
0.25 $\mu$ H	1.2	1.4	1.7	0.8
1 $\mu$ H	0.4	0.5	0.9	0.6
10 $\mu$ H	0.4	0.4	0.6	0.1
100 $\mu$ H	0.2	0.2	0.2	

NVLAP Code: 20/R10

Q Standards

Range	Best Uncertainty ( $\pm$ ) in percent <sup>note 1</sup>	Remarks
Selected values from 95 to 607	1.2 to 4.5 dependent on Q value and frequency	frequency range 50 kHz to 45 MHz

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/R11  
RF-DC Voltage Converter  
High Frequency TVC

*Best Uncertainty ( $\pm$ ) in percent<sup>note 1</sup>*

<i>Range</i>	<i>Frequency in Hz</i>				
	<i>1 M</i>	<i>10 M</i>	<i>30 M</i>	<i>50 M</i>	<i>100 M</i>
0.5 V	0.06	0.11	0.21	0.51	1.1
1 V	0.06	0.11	0.21	0.51	1.1
2 V	0.06	0.11	0.21	0.51	1.1
2.5 V	0.06	0.11	0.21	0.51	1.1
3 V	0.06	0.11	0.21	0.51	1.1
5 V	0.06	0.11	0.21		1.1
10 V	0.06	0.11	0.21		1.1
20 V	0.06	0.11	0.21		1.1
50 V	0.06	0.11	0.22		1.2
100 V	0.06	0.11	0.27		1.5
200 V	0.06	0.12	0.21		1.1

RF TVC

*Best Uncertainty ( $\pm$ ) in percent<sup>note 1</sup>*

<i>Range</i>	<i>Frequency in Hz</i>					
	<i>300 M</i>	<i>600 M</i>	<i>700 M</i>	<i>800 M</i>	<i>900 M</i>	<i>1000 M</i>
1 V	1.3	1.3	1.3	1.3	1.3	1.3
2.4 V	1.3	1.3	1.3	1.3	1.3	1.3
7 V	1.3	1.3	1.3	1.3	1.3	1.3

Micropotentiometers

*Best Uncertainty ( $\pm$ ) in percent<sup>note 1</sup>*

<i>Range</i>	<i>Frequency in Hz</i>				
	<i>30 M</i>	<i>100 M</i>	<i>300 M</i>	<i>600 M</i>	<i>900 M</i>
0.1 mV	2.32	3.56	3.36	5.10	5.10
0.2 mV	0.54	1.04	1.02	1.35	1.42
0.4 mV	2.34	3.44	3.18	5.10	5.10
0.9 mV	0.54	1.04	1.05	1.35	1.44
1 mV	2.24	3.33	3.21	5.10	5.10

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Best Uncertainty (<math>\pm</math>) in percent<sup>note 1</sup></i>					
<i>Frequency in Hz</i>					
<i>Range</i>	<i>30 M</i>	<i>100 M</i>	<i>300 M</i>	<i>600 M</i>	<i>900 M</i>
1.5 mV	0.59	1.02	1.02	1.33	1.33
4 mV	0.53	1.07	1.21	1.38	1.39
5 mV	2.24	3.16	3.17	5.10	5.10
10 mV	2.27	3.19	3.16	5.10	5.10
11 mV	2.25	3.17	3.58	5.10	5.10
25 mV	0.48	0.97	0.97	1.28	1.30
28.5 mV	2.52	3.49	3.95	5.10	
102 mV	0.53	0.99	1.08	1.30	1.28
150 mV	0.43	0.99	1.06	1.32	1.28
320 mV	2.24	3.23	3.18	5.10	5.10
330 mV	0.45	1.01	0.98	1.38	1.29

NVLAP Code: 20/R12

RF/Microwave Bolometer Units

Expanded Uncertainties<sup>note 1,2,3</sup> on Effective Efficiency & Calibration Factor of HP bolometric power sensors.

<i>Frequency (MHz)</i>						
<i>Connector Type</i>	<i>Quantity</i>	<i>Quantity Range</i>	<i>50-2000</i>	<i>2000-8000</i>	<i>8000-12000</i>	<i>12000-18000</i>
N	Calibration Factor	0.9 to 1	0.004-0.006	0.004-0.006	0.005-0.007	0.006-0.008
APC-3.5	Calibration Factor	0.9 to 1	-----	0.007-0.009	0.009-0.010	0.010-0.011
N	Effective Efficiency	0.9 to 1	0.004-0.005	0.004-0.005	0.005-0.006	0.006-0.008
APC-3.5	Effective Efficiency	0.9 to 1	-----	0.007-0.008	0.008-0.009	0.009-0.010



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/R13

RF/Microwave Attenuators

Reflection Coefficient (or Scattering Parameter  $S_{ii}$ )

A. Dual 6-Port Network Analyzer Certification Uncertainties *note 2,3,4*

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			50-2000	2000-8000	8000-12000	12000-18000
GR-900	$ S_{ii} $	0 to 1	0.002-0.009	0.002-0.015	-----	-----
N	$ S_{ii} $	0 to 1	0.002-0.008	0.002-0.027	0.006-0.018	0.006-0.030
APC-7	$ S_{ii} $	0 to 1	0.002-0.006	0.002-0.009	0.003-0.018	0.005-0.015
APC-3.5	$ S_{ii} $	0 to 1	0.002-0.012	0.002-0.015	0.005-0.019	0.012-0.050
GR-900	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.120-180.0	0.019-180.0	-----	-----
N	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.360-180.0	0.300-180.0	0.600-180.0	0.800-180.0
APC-7	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.012-180.0	0.200-180.0	0.540-180.0	0.525-180.0
APC-3.5	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.360-180.0	0.240-180.0	0.540-180.0	0.560-180.0

B. HP8510 Vector Network Analyzer Uncertainties

1. Expanded Uncertainties *note 1,2,3* on one or two-port devices

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			50-2000	2000-8000	8000-12000	12000-18000
N	$ S_{ii} $	0 to 1	0.001-0.003	0.001-0.009	0.004-0.009	0.004-0.021
APC-7	$ S_{ii} $	0 to 1	0.001-0.007	0.001-0.003	0.003-0.007	0.001-0.004
APC-3.5	$ S_{ii} $	0 to 1	0.001-0.007	0.004-0.020	0.004-0.020	0.004-0.020
N	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.05-180	0.36-180	1.43-180	1.34-180
APC-7	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.15-180	0.16-180	0.33-180	0.38-180
APC-3.5	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.53-180	0.33-180	0.35-180	0.33-180

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## 2. Certification Uncertainties <sup>note 2,3,4</sup> on three-port devices

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			50-2000	2000-8000	8000-12000	12000-18000
N, APC-7, APC-3.5	$ S_{ii} $	0 to 0.3	0.011 - 0.075	0.011 - 0.075	0.03 - 0.09	0.050 - 0.092
N, APC-7, APC-3.5	$ \Gamma_{ge} $	0 to 0.3	0.011 - 0.080	0.012 - 0.080	0.030 - 0.084	0.071 - 0.119

## C. HP8753 Vector Network Analyzer Certification Uncertainties <sup>note 2,3,4</sup>

### 1. One or two-port devices

Connector Type	Quantity	Quantity Range	25-1000	1000-3000
N	$ S_{ii} $	0 to 1	0.001-0.009	0.003-0.016
APC-7	$ S_{ii} $	0 to 1	0.002-0.04	0.002-0.004
APC-3.5	$ S_{ii} $	0 to 1	0.006-0.02	0.006-0.035
N	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.2-70	1-180
APC-7	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	0.3-180	0.2-25
APC-3.5	$\text{Arg}(S_{ii})$	$0 <  S_{ii}  < 1$ -180 to +180 deg	1-180	1.6-180

### 2. Three-port devices

Connector Type	Quantity	Quantity Range	25-1000 (MHz)
N, APC-7-APC-3.5	$ S_{ii} $	0 to 0.3	0.011 - 0.020
N, APC-7-APC-3.5	$ \Gamma_{ge} $	0 to 0.3	0.01 - 0.03

## D. Weinschel VM-4B Certification Uncertainties <sup>note 2,3,4</sup>

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			10-2000	2000-8000	8000-12000	12000-18000
N	$ S_{ii} $	0 to 1	0.025-0.080	0.031-0.085	0.040-0.090	0.046-0.112
APC-7	$ S_{ii} $	0 to 1	0.011-0.075	0.015-0.080	0.030-0.085	0.036-0.106
BNC	$ S_{ii} $	0 to 1	0.026-0.060 <sup>note 5</sup>	-----	-----	-----

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

Attenuation (or Scattering Parameter  $S_{ij}$ )

A. Dual 6-Port Network Analyzer Certification Uncertainties <sup>note 2,3,4</sup>

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			50-2000	2000-8000	8000-12000	12000-18000
GR-900	$ S_{ij} $	0 to 60 dB	0.012-0.390	0.015-0.410	-----	-----
N	$ S_{ij} $	0 to 60 dB	0.012-0.390	0.015-0.410	0.018-0.410	0.021-0.900
APC-7	$ S_{ij} $	0 to 60 dB	0.012-0.390	0.015-0.410	0.020-0.410	0.021-0.900
APC-3.5	$ S_{ij} $	0 to 60 dB	0.012-0.150	0.015-0.410	0.020-0.410	0.030-0.90

B. HP8510 Vector Network Analyzer Uncertainties

1. Expanded Uncertainties <sup>note 1,2,3</sup> on one or two-port devices

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			50-2000	2000-8000	8000-12000	12000-18000
N	$ S_{ij} $	0 to 60 dB	0.01-0.12	0.02-0.17	0.03-0.25	0.03-0.48
APC-7	$ S_{ij} $	0 to 60 dB	0.01-0.08	0.01-0.13	0.01-0.13	0.01-0.18
APC-3.5	$ S_{ij} $	0 to 60 dB	0.01-0.12	0.02-0.22	0.04-0.25	0.05-0.49
N	$\text{Arg}(S_{ij})$	$0 <  S_{ij}  < 60$ dB 0 to 360 deg	0.22-1.19	0.32-1.27	0.36-1.84	0.58-3.46
APC-7	$\text{Arg}(S_{ij})$	$0 <  S_{ij}  < 60$ dB 0 to 360 deg	0.22-0.73	0.25-1.21	0.41-1.70	0.57-2.85
APC-3.5	$\text{Arg}(S_{ij})$	$0 <  S_{ij}  < 60$ dB 0 to 360 deg	0.45-0.80	0.35-1.39	0.41-1.94	0.66-3.17

2. Certification Uncertainties <sup>note 2,3,4</sup> on three-port devices

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			50-2000	2000-8000	8000-12000	12000-18000
N, APC-7, APC-3.5	$ \text{Coupling} $ (dB)	3-40 dB	0.071 - 0.320	0.110 - 0.500	0.012 - 0.500	0.320 - 0.600
N, APC-7, APC-3.5	$ \text{Mainline} $ (dB)	0 to 8 dB	0.020 - 0.221	0.020 - 0.221	0.020 - 0.221	0.131 - .290
N, APC-7, APC-3.5	$ \text{Directivity} $ (dB)	15-25 dB	0.19 - 9.2	0.53 - 9.2	0.80 - 9.2	1.55 - 9.2
N, APC-7, APC-3.5	$ \text{Directivity} $ (dB)	30-40 dB	1.0 - $\infty$	2.6 - $\infty$	5.7 - $\infty$	7.2 - $\infty$

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## C. HP8753 Vector Network Analyzer Certification Uncertainties<sup>note 2,3,4</sup>

### 1. One or two-port devices

Connector Type	Quantity	Quantity Range	Frequency (MHz)	
			25-1000	1000-3000
N	$ S_{ij} $	0 to 60 dB	0.003-0.5	0.004-1.2
APC-7	$ S_{ij} $	0 to 60 dB	0.002-0.6	0.003-0.9
APC-3.5	$ S_{ij} $	0 to 60 dB	0.003-0.6	0.003-1.0
APC-3.5	$\text{Arg}(S_{ij})$	$0 <  S_{ij}  < 60$ dB 0 to 360 deg	0.4-10	0.4-10

### 2. Three-port devices

Connector Type	Quantity	Quantity Range	25-1000 (MHz)
N, APC-7-APC-3.5	Coupling  (dB)	3-20 dB	0.050 - 0.230
N, APC-7-APC-3.5	Mainline  (dB)	0 to 8 dB	0.020 - 0.050
N, APC-7-APC-3.5	Directivity  (dB)	15-25 dB	0.9 - 3.8
N, APC-7-APC-3.5	Directivity  (dB)	30-40 dB	4 - $\infty$

## D. Weinschel VM-4B Certification Uncertainties<sup>note 2,3,4</sup> on Attenuation

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			10-2000	2000-8000	8000-12000	12000-18000
N	$ S_{ij} $	0 to 100 dB	0.06-0.60	0.10-1.10	0.25-1.52	0.38-1.80
APC-7	$ S_{ij} $	0 to 100 dB	0.06-0.60	0.10-1.00	0.20-1.43	0.30-1.75
BNC	$ S_{ij} $	0 to 100 dB	0.10-0.90 <sup>note 5</sup>	-----	-----	-----

## E. Power Ratio Attenuation Expanded Uncertainties<sup>note 1,2,3</sup>

Connector Type	Quantity	Quantity Range	Frequency (MHz)			
			10-2000	2000-8000	8000-12000	12000-18000
Fixed Attenuators or Step/Variable Attenuators						
N, APC-7 APC-3.5	S <sub>ij</sub>	0 to 11 dB	0.008-0.014 + Mismatch Unc.	0.014-0.016 + Mismatch Unc.	0.013-0.015 + Mismatch Unc.	0.015-0.018 + Mismatch Unc.
Isolated Step/Variable Attenuators						
N, APC-7 APC-3.5	S <sub>ij</sub>	0 to 11 dB	0.008-0.014	0.014-0.016	0.013-0.015	0.015-0.018



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/R16

Group Delay Certification Uncertainties<sup>note 2,3,4</sup>

Connector Type	Typical Atten. (dB)	Delay (ns)	50-1000 (MHz)
APC-7, N, APC-3.5	0.08	5	0.02 - 0.05
APC-7, N, APC-3.5	0.21	15	0.04 - 0.13
APC-7, N, APC-3.5	0.8	50	0.05 - 0.12
APC-7, N, APC-3.5	3	200	0.15 - 0.41
APC-7, N, APC-3.5	2.2	385	0.46 - 0.50

NVLAP Code: 20/R17

RF/Microwave Power Meters

CW Power Certification Uncertainties<sup>note 2,3,4</sup>

A. Low to Medium Power CW Microwave Power Meter Calibration at Type N Connector

Quantity	Quantity Range	Frequency (MHz)			
		1 to 2000	2000 to 4000	4000 to 12400	12400 to 16500
Power (dBm)	-30 to -10	.09 to .41 dB	.13 to .41 dB	.14 to .34 dB	.16 to .46 dB
Power (dBm)	-10 to 10	.06 to .27 dB	.10 to .25 dB	.11 to .30 dB	-----
Power (dBm)	10 to 30	.06 to .25 dB	.10 to .21 dB	.11 to .24 dB	-----

B. Low Power, Wide Range, CW Microwave Power Meter Calibration at Type N Connector

Quantity	Quantity Range	Frequency (MHz)		
		30 to 4000	4000 to 8000	8000 to 12400
Power (dBm)	-60 to -50	0.20 to 0.41 dB	0.25 to 0.43 dB	0.24 to 0.43 dB
Power (dBm)	-50 to -40	0.18 to 0.29 dB	0.23 to 0.35 dB	0.22 to 0.35 dB
Power (dBm)	-40 to -30	0.14 to 0.25 dB	0.16 to 0.32 dB	0.20 to 0.32 dB
Power (dBm)	-30 to -20	0.14 to 0.23 dB	0.16 to 0.27 dB	0.18 to 0.27 dB

C. Medium Power CW Microwave Power Meter Calibration at Type N Connector

Quantity	Quantity Range	Frequency (MHz)		
		12 to 1000	240	2000 to 2500
Power (mW)	1 to 10	1.7 to 3.3%	-----	-----
Power (mW)	1 to 100	-----	-----	3.1 to 4.3%
Power (mW)	80 to 160	-----	1.9 to 2.4%	-----

## INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

### D. Medium Power CW Microwave Power Meter Calibrations at APC-3.5 Connector

<i>Quantity</i>	<i>Quantity Range</i>	<i>Frequency (MHz)</i>		
		<i>2000 to 4000</i>	<i>4000 to 8000</i>	<i>8000 to 18000</i>
Power (mW)	0.1 to 8	2.8 to 4.0%	3.0 to 4.9%	4.0 to 5.8%

### E. High Power CW Microwave Power Meter Calibrations at Type N Connector

<i>Quantity</i>	<i>Quantity Range</i>	<i>Frequency (MHz)</i>	
		<i>13.6 to 300</i>	<i>300 to 3000</i>
Power (Watts)	0.2 to 10	9.0 to 9.1%	3.3 to 10.6%
Power (Watts)	10 to 200	4.4 to 10.1%	9.6 to 10.6%

Pulse Power Certification Uncertainties<sup>note 2,3,4</sup>

#### A. Pulse Power Meter Calibrations at Type N Connector

<i>Quantity</i>	<i>Quantity Range</i>	<i>2000</i>
Power (mW)	10 to 100	7.3 to 8.2%

## THERMODYNAMICS

NVLAP Code: 20/T04

Leak Artifacts

<i>Range</i>	<i>Best Uncertainty (±) in percent<sup>note 1</sup></i>	<i>Remarks</i>
Gas Leak - PΔV Technique		
1 x 10 <sup>-7</sup> moles/s	0.7	Total Gas Measurement
1 x 10 <sup>-8</sup> moles/s	0.9	Total Gas Measurement
1 x 10 <sup>-9</sup> moles/s	1.0	Total Gas Measurement
1 x 10 <sup>-10</sup> moles/s	1.0	Total Gas Measurement
Gas Leak - Accumulate - Dump Technique		
1 x 10 <sup>-10</sup> moles/s to 1 x 10 <sup>-14</sup> moles/s	1.0	1 to 200 Atomic Mass Units for any non-reactive, non- hazardous, non-radioactive gas
Gas Leak - Comparison Technique		
1 x 10 <sup>-10</sup> moles/s	2.5	Helium
1 x 10 <sup>-11</sup> moles/s	2.4	Helium
1 x 10 <sup>-12</sup> moles/s	2.3	Helium
1 x 10 <sup>-13</sup> moles/s	2.3	Helium
1 x 10 <sup>-14</sup> moles/s	7.0	Helium

## THERMODYNAMICS

NVLAP Code: 20/T05

Pressure

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
Pneumatic Deadweight Piston Gauges (absolute mode) - Direct Pressure Comparison		
0.2 to 24 psia [ $\approx$ 1.4 to 170 kPa]	31	Nitrogen
2.0 to 70 psia [ $\approx$ 14 to 480 kPa]	28	Nitrogen
52 to 1000 psia [ $\approx$ 0.4 to 7.0 MPa]	46	Nitrogen
Pneumatic Deadweight Piston Gauges (gauge mode) - Direct Pressure Comparison		
0.2 to 24 psig [ $\approx$ 1.4 to 170 kPa]	29	Nitrogen
2.0 to 70 psig [ $\approx$ 14 to 480 kPa]	26	Nitrogen
52 to 1000 psig [ $\approx$ 0.4 to 7.0 MPa]	44	Nitrogen
Hydraulic Deadweight Piston Gauges (gauge mode) - Direct Pressure Comparison		
0.4 to 4.0 kpsig [ $\approx$ 2.8 to 28 MPa]	44	Oil
2.0 to 20 kpsig [ $\approx$ 14 to 140 MPa]	61	Oil
4.0 to 40 kpsig [ $\approx$ 28 to 280 MPa]	59	Oil
Pneumatic Deadweight Piston Gauges - Cross Float (effective area)		
0.2 to 24 psig [ $\approx$ 14 kPa to 170 kPa]	35	Nitrogen
2.0 to 70 psig [ $\approx$ 14 kPa to 480 kPa]	33	Nitrogen
52 to 1000 psig [ $\approx$ 0.4 MPa to 7.0 MPa]	46	Nitrogen
Hydraulic Deadweight Piston Gauges - Cross Float (effective area)		
0.4 to 4.0 kpsig [ $\approx$ 2.8 to 28 MPa]	46	Oil
2.0 to 20 kpsig [ $\approx$ 14 to 140 MPa]	67	Oil
4.0 to 40 kpsig [ $\approx$ 28 to 280 MPa]	61	Oil
Secondary Pressure		
Low Range Absolute		
<i>Pressure</i>	<i>Best Uncertainty (<math>\pm</math>) in psia<sup>note 1</sup></i>	<i>Remarks</i>
0.2 psia [ $\approx$ 1.4 kPa]	0.0013	Nitrogen
1.0 psia [ $\approx$ 7.0 kPa]	0.0013	Nitrogen
6.0 psia [ $\approx$ 41 kPa]	0.0017	Nitrogen
10 psia [ $\approx$ 70 kPa]	0.0021	Nitrogen
15 psia [ $\approx$ 100 kPa]	0.0028	Nitrogen

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## Secondary Pressure

### Low Range Gauge or Absolute

<i>Pressure</i>	<i>Best Uncertainty (<math>\pm</math>) in psi<sup>note 1</sup></i>	<i>Remarks</i>
20 psi [ $\approx$ 140 kPa]	0.009	Nitrogen
40 psi [ $\approx$ 280 kPa]	0.010	Nitrogen
60 psi [ $\approx$ 410 kPa]	0.011	Nitrogen
80 psi [ $\approx$ 550 kPa]	0.013	Nitrogen
100 psi [ $\approx$ 690 kPa]	0.014	Nitrogen

## Secondary Pressure

### Mid-Range Gauge or Absolute

<i>Pressure</i>	<i>Best Uncertainty (<math>\pm</math>) in psi<sup>note 1</sup></i>	<i>Remarks</i>
200 psi [ $\approx$ 1.4 MPa]	0.137	Nitrogen
500 psi [ $\approx$ 3.4 MPa]	0.157	Nitrogen
1.0 kpsi [ $\approx$ 7.0 MPa]	0.201	Nitrogen
1.5 kpsi [ $\approx$ 10 MPa]	0.247	Nitrogen
2.0 kpsi [ $\approx$ 14 MPa]	0.280	Nitrogen

## Secondary Pressure

### High-Range Gauge or Absolute

4.0 kpsi [ $\approx$ 28 MPa]	0.6	Nitrogen
6.0 kpsi [ $\approx$ 41 MPa]	0.8	Nitrogen
8.0 kpsi [ $\approx$ 55 MPa]	1.0	Nitrogen
10 kpsi [ $\approx$ 70 MPa]	1.0	Nitrogen



**THERMODYNAMICS**
*NVLAP Code:* 20/T07

Resistance Thermometry

<i>Temperature (°C)</i>	<i>Best Uncertainty (±) in m °C<sup>note 1</sup></i>	<i>Material/ Equilibrium State</i>
-189.3442	0.53	Ar/Triple Point
-38.8344	0.30	Hg/Triple Point
0.01	0.16	H <sub>2</sub> O/Triple Point
29.7646	0.12	Ga/Melting Point
156.5985	2.00	In/Freezing Point
231.928	0.92	Sn/Freezing Point
419.527	1.10	Zn/Freezing Point
660.323	5.0	Al/Freezing Point
961.78	10.0	Ag/Freezing Point

## Standard Platinum Resistance Thermometer Calibrations

-189.3442	1.1	Ar/Triple Point
-38.8344	0.6	Hg/Triple Point
0.01	0.6	H <sub>2</sub> O/Triple Point
29.7646	0.6	Ga/Melting Point
156.5985	2.6	In/Freezing Point
231.928	1.8	Sn/Freezing Point
419.527	2.0	Zn/Freezing Point
660.323	5.2	Al/Freezing Point
961.78	10.1	Ag/Freezing Point

## Comparison Calibrations

<i>Temperature Range (°C)</i>	<i>Best Uncertainty (±) in °C<sup>note 1</sup></i>	<i>Type of Device</i>
-80 to 0	0.10	Thermocouples
10 to 150	0.10	Thermocouples
150 to 660	0.22	Thermocouples
660 to 700	0.47	Thermocouples
700 to 1100	2.5	Thermocouples
1100 to 1300	2.8	Thermocouples
-80 to 0	0.06	RTD/IPRT/PRT
10 to 150	0.09	RTD/IPRT/PRT

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Temperature Range (°C)</i>	<i>Best Uncertainty (±) in °C<sup>note 1</sup></i>	<i>Type of Device</i>
150 to 660	0.21	RTD/IPRT/PRT
-80 to 0	0.05	Liquid in Glass
10 to 150	0.06	Liquid in Glass
-80 to 0	0.06	Thermistors
10 to 150	0.09	Thermistors
150 to 250	0.21	Thermistors

Thermocouple Simulator/Readout Calibration Methods

<i>Type</i>	<i>ITS-90 Temperature Range (°C)</i>	<i>Best Uncertainty (±) in °C<sup>note 1,9</sup></i>	<i>NIST Monograph 175 Reference Table<sup>note 10</sup></i>
K	-200 TO 1370	0.10 to 0.30	7.3.3
J	-200 to 1200	0.08 to 0.22	6.3.3
E	-240 to 1000	0.07 to 0.38	5.3.3
T	-240 to 400	0.09 to 0.53	9.3.3
R	-50 to 1750	0.38 to 1.09	3.3.3
S	-50 to 1750	0.43 to 1.02	4.3.3
B	100 to 1750	0.43 to 4.45	2.3.3
C	0 to 2300	0.24 to 0.82	

THERMODYNAMICS

NVLAP Code: 20/T10

Vacuum

<i>Range</i>	<i>Best Uncertainty (±) in percent<sup>note 1</sup></i>	<i>Remarks</i>
Ionization Gage Reference for direct comparison		
1.3 x 10 <sup>-6</sup> Pa < reading ≤ 1.3 x 10 <sup>-5</sup> Pa	4.8	N <sub>2</sub> ; 10 <sup>-8</sup> torr
1.3 x 10 <sup>-5</sup> Pa < reading ≤ 1.3 x 10 <sup>-4</sup> Pa	4.7	N <sub>2</sub> ; 10 <sup>-7</sup> torr
1.3 x 10 <sup>-4</sup> Pa < reading ≤ 1.3 x 10 <sup>-3</sup> Pa	4.7 - 2.5	N <sub>2</sub> ; 10 <sup>-6</sup> torr

Spinning Rotor Gage Reference for direct comparison

1.3 x 10 <sup>-4</sup> Pa < reading ≤ 1.3 x 10 <sup>-3</sup> Pa	4.3 - 2.1	N <sub>2</sub> ; 10 <sup>-6</sup> torr
1.3 x 10 <sup>-3</sup> Pa < reading ≤ 1.3 Pa	2.1	N <sub>2</sub> ; 10 <sup>-5</sup> torr - 10 <sup>-3</sup> torr
1.3 Pa ≤ reading ≤ 13 Pa	2.2	N <sub>2</sub> ; 10 <sup>-3</sup> torr

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

Range	Best Uncertainty ( $\pm$ ) in percent <sup>note 1</sup>	Remarks
Capacitance Diaphragm Gages Reference for direct comparison		
1.3 x 10 <sup>-1</sup> Pa $\leq$ reading $\leq$ 13.3 Pa	2.1 - 0.7	N <sub>2</sub> ; 0.1 torr range
13.3 Pa $\leq$ reading $\leq$ 133.3 Pa	0.7	N <sub>2</sub> ; 1 torr range
133.3 Pa $\leq$ reading $\leq$ 1.3 kPa	0.4	N <sub>2</sub> ; 10 torr range
1.3 kPa $\leq$ reading $\leq$ 13.3 kPa	0.2	N <sub>2</sub> ; 100 torr range
13.3 kPa $\leq$ reading $\leq$ 133.3 kPa	0.6 to 0.1	N <sub>2</sub> ; 1000 torr range
Secondary Capacitance Diaphragm Gages Reference for direct comparison		
1.3 x 10 <sup>-1</sup> Pa $\leq$ reading $\leq$ 13.3 Pa	2.2 to 0.9	N <sub>2</sub> ; 0.1 torr range
13.3 Pa $\leq$ reading $\leq$ 133.3 Pa	1.1	N <sub>2</sub> ; 1 torr range
133.3 Pa $\leq$ reading $\leq$ 1.3 kPa	0.5	N <sub>2</sub> ; 10 torr range
1.3 kPa $\leq$ reading $\leq$ 13.3 kPa	0.5	N <sub>2</sub> ; 100 torr range
13.3 kPa $\leq$ reading $\leq$ 13.3 kPa	0.59 to 0.11	N <sub>2</sub> ; 1000 torr range

1. Expanded uncertainty with coverage factor of k=2, unless otherwise specified.
2. Approximate value. Actual value determined by test results.
3. The uncertainty ranges are the lowest and highest uncertainty values within the specified frequency range and quantity range.
4. Uncertainty consists of an appropriate combination of the measurement uncertainty (which includes all significant sources of uncertainty associated with the calibration process) and uncertainties due to use, environment, handling or variation with time over the certification interval.
5. Maximum frequency for BNC is 1000 MHz.
6. ASTM loading range classes (e.g., A, AA) are not used or reported.
7. Calibrations to 30,000 lbf versus load cells can be automated; other calibrations are manual.
8. Uncertainties listed are linearized forms ( $A' + B'L$ ) of uncertainties calculated as root sum squares of constant and length-dependent terms  $\{A^2 + (BL)^2\}^{1/2}$ . A' and B' are calculated by fitting a straight line through the RSS uncertainty values at the upper and lower limits of range.
9. Uncertainty is dependent on the specific temperature point tested.
10. Referenced tables in NIST Monograph 175 (April, 1993) provide values for emf E output/input of the thermocouple simulator/readout and the Seebeck coefficient S for the specific temperature points within the specified ranges. The best uncertainty (at k=2) of the emf E in  $\mu$ V is equal to the product of U \* S, where U is the best uncertainty (at k=2) of the temperature point tested.

## MINNESOTA METROLOGY LABORATORY

2277 Hwy. 36

St. Paul, MN 55113-3800

Contact: Ms. Carol Hockert

Phone: 651-628-6851 Fax: 651-639-4014

E-Mail: chockert@dpsv.state.mn.us

Accreditation Valid Through: December 31, 1999

## MECHANICAL

NVLAP Code: 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1000 kg	10377 mg	Equal Arm Balance
500 kg	5069 mg	Equal Arm Balance
300 kg	3200 mg	Equal Arm Balance
200 kg	2258 mg	Equal Arm Balance
100 kg	1299 mg	Equal Arm Balance
50 kg	99.7 mg	Double Substitution
30 kg	63.0 mg	Double Substitution
20 kg	44.6 mg	Double Substitution
10 kg	1.634 mg	Double Substitution
5 kg	0.247 mg	Double Substitution
3 kg	0.156 mg	Double Substitution
2 kg	0.106 mg	Double Substitution
1 kg	0.036 mg	Double Substitution
500 g	0.021 mg	Double Substitution
300 g	0.016 mg	Double Substitution
200 g	0.014 mg	Double Substitution
100 g	0.014 mg	Double Substitution
50 g	0.0097 mg	Double Substitution
30 g	0.0072 mg	Double Substitution
20 g	0.0063 mg	Double Substitution
10 g	0.0068 mg	Double Substitution
5 g	0.0036 mg	Double Substitution
3 g	0.0024 mg	Double Substitution
2 g	0.0018 mg	Double Substitution



---

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1 g	0.0016 mg	Double Substitution
500 mg	0.00088 mg	Double Substitution
300 mg	0.00060 mg	Double Substitution
200 mg	0.00048 mg	Double Substitution
100 mg	0.00048 mg	Double Substitution
50 mg	0.00050 mg	Double Substitution
30 mg	0.00046 mg	Double Substitution
20 mg	0.00046 mg	Double Substitution
10 mg	0.00054 mg	Double Substitution
5 mg	0.00034 mg	Double Substitution
3 mg	0.00028 mg	Double Substitution
2 mg	0.00024 mg	Double Substitution
1 mg	0.00028 mg	Double Substitution
1000 kg	23203 mg	Tolerance Test
500 kg	11335 mg	Tolerance Test
300 kg	7155 mg	Tolerance Test
200 kg	5049 mg	Tolerance Test
100 kg	2904 mg	Tolerance Test
50 kg	222.8 mg	Tolerance Test
30 kg	140.9 mg	Tolerance Test
20 kg	99.6 mg	Tolerance Test
10 kg	32.18 mg	Tolerance Test
5 kg	1.65 mg	Tolerance Test
3 kg	1.61 mg	Tolerance Test
2 kg	1.59 mg	Tolerance Test
1 kg	1.58 mg	Tolerance Test
500 g	1.58 mg	Tolerance Test
300 g	1.58 mg	Tolerance Test
200 g	0.031 mg	Tolerance Test
100 g	0.032 mg	Tolerance Test
50 g	0.024 mg	Tolerance Test
30 g	0.020 mg	Tolerance Test
20 g	0.019 mg	Tolerance Test

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
10 g	0.020 mg	Tolerance Test
5 g	0.016 mg	Tolerance Test
3 g	0.015 mg	Tolerance Test
2 g	0.015 mg	Tolerance Test
1 g	0.015 mg	Tolerance Test
500 mg	0.0147 mg	Tolerance Test
300 mg	0.0146 mg	Tolerance Test
200 mg	0.0146 mg	Tolerance Test
100 mg	0.0146 mg	Tolerance Test
50 mg	0.0146 mg	Tolerance Test
30 mg	0.0146 mg	Tolerance Test
20 mg	0.0146 mg	Tolerance Test
10 mg	0.0146 mg	Tolerance Test
5 mg	0.0146 mg	Tolerance Test
3 mg	0.0146 mg	Tolerance Test
2 mg	0.0146 mg	Tolerance Test
1 mg	0.0146 mg	Tolerance Test

## DIMENSIONAL

*NVLAP Code:* 20/D13

Surveying Rods and Tapes

1 - 12 in	0.004 in	Rigid Rules (Comparison to Standard)
13 - 24 in	0.008 in	Rigid Rules (Comparison to Standard)
1 - 10 ft	0.0042 ft	Metal Tapes (Bench Method)
20 ft	0.0055 ft	Metal Tapes (Bench Method)
30 ft	0.0067 ft	Metal Tapes (Bench Method)
40 ft	0.0082 ft	Metal Tapes (Bench Method)
50 ft	0.0095 ft	Metal Tapes (Bench Method)
60 ft	0.0110 ft	Metal Tapes (Bench Method)
70 ft	0.0124 ft	Metal Tapes (Bench Method)
80 ft	0.0139 ft	Metal Tapes (Bench Method)
90 ft	0.0153 ft	Metal Tapes (Bench Method)

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
100 ft	0.0169 ft	Metal Tapes (Bench Method)
110 ft	0.0182 ft	Metal Tapes (Bench Method)
120 ft	0.0198 ft	Metal Tapes (Bench Method)
130 ft	0.0212 ft	Metal Tapes (Bench Method)
140 ft	0.0228 ft	Metal Tapes (Bench Method)
150 ft	0.0242 ft	Metal Tapes (Bench Method)
160 ft	0.0228 ft	Metal Tapes (Bench Method)
170 ft	0.0228 ft	Metal Tapes (Bench Method)
180 ft	0.0212 ft	Metal Tape (Bench Method)
190 ft	0.0288 ft	Metal Tape (Bench Method)
200 ft	0.0301 ft	Metal Tape (Bench Method)
1 - 50 ft	0.0054 ft	Steel Tape (Tape-to-Tape)
60 - 100 ft	0.0108 ft	Steel Tape (Tape-to-Tape)
110 - 150 ft	0.0162 ft	Steel Tape (Tape-to-Tape)
160 - 200 ft	0.0215 ft	Steel Tape (Tape-to-Tape)

## MECHANICAL

*NVLAP Code:* 20/M12

Volume and Density

10000 ml	0.6248 ml	Gravimetric Method
1000 ml	0.0628 ml	Gravimetric Method
100 ml	0.00617 ml	Gravimetric Method
10 ml	0.00063 ml	Gravimetric Method
1 ml	0.00010 ml	Gravimetric Method
100 gal	17.088 ml	Gravimetric Method
50 gal	13.000 ml	Gravimetric Method
25 gal	10.160 ml	Gravimetric Method
5 gal	0.309 in <sup>3</sup>	Volumetric Provers (Volumetric Transfer Method)
1500 gal	35.372 in <sup>3</sup>	Large Volume Provers (Volumetric Transfer Method)

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1000 gal	24.243 in <sup>3</sup>	Large Volume Provers (Volumetric Transfer Method)
500 gal	13.063 in <sup>3</sup>	Large Volume Provers (Volumetric Transfer Method)
100 gal	3.797 in <sup>3</sup>	Large Volume Provers (Volumetric Transfer Method)
100 gal	11.97 in <sup>3</sup>	LPG Provers (Volumetric Transfer Method)

## THERMODYNAMICS

*NVLAP Code:* 20/T03

Laboratory Thermometers

Triple Point of Water	0.00061 °C	Liquid-in-glass, digital thermometers
10 °C	0.00542 °C	Liquid-in-glass, digital thermometers
20 °C	0.00494 °C	Liquid-in-glass, digital thermometers
30 °C	0.00502 °C	Liquid-in-glass, digital thermometers
40 °C	0.00512 °C	Liquid-in-glass, digital thermometers
50 °C	0.00522 °C	Liquid-in-glass, digital thermometers
60 °C	0.00532 °C	Liquid-in-glass, digital thermometers
70 °C	0.00543 °C	Liquid-in-glass, digital thermometers
80 °C	0.00555 °C	Liquid-in-glass, digital thermometers
90 °C	0.00568 °C	Liquid-in-glass, digital thermometers
100 °C	0.00580 °C	Liquid-in-glass, digital thermometers
150 °C	0.00607 °C	Liquid-in-glass, digital thermometers
200 °C	0.00754 °C	Liquid-in-glass, digital thermometers
250 °C	0.00921 °C	Liquid-in-glass, digital thermometers
350 °C	0.01473 °C	Liquid-in-glass, digital thermometers



---

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
400 °C	0.01859 °C	Liquid-on-glass, digital thermometers
450 °C	0.02252 °C	Liquid-in-glass, digital thermometers
500 °C	0.02649 °C	Liquid-in-glass, digital thermometers

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$

NVLAP LAB CODE 105004-0

**U.S. ARMY PRIMARY STANDARDS LABORATORY**

Attn: AMSAM-TMD-S  
 Redstone Arsenal, AL 35898-5000  
 Contact: Dr. James R. Jones  
 Phone: 256-876-2666 Fax: 256-876-6014  
 E-Mail: jjones@redstone.army.mil  
 URL: <http://tmdehome.redstone.army.mil/apsl/>

Accreditation Valid Through: December 31, 1999

**ELECTROMAGNETICS/DC-LOW FREQUENCY**

NVLAP Code: 20/E06

DC Volts

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 - 10 volts	0.04 ppm	Josephson Array System

**TIME AND FREQUENCY**

NVLAP Code: 20/F01

Frequency

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1 MHz	$1 \times 10^{-12}$	NIST FMS System
1 MHz	$1 \times 10^{-12}$	NIST FMS System
5 MHz	$1 \times 10^{-12}$	NIST FMS System
10 MHz	$1 \times 10^{-12}$	NIST FMS System

**IONIZING RADIATION**

NVLAP Code: 20/I04

Radioactive Sources

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to $1 \times 10^6$ Bq	5%	Large Area Sources, <sup>238</sup> Pu, <sup>239</sup> Pu

**ELECTROMAGNETICS/RF MICROWAVE**

NVLAP Code: 20/R12

RF/Microwave Bolometer Units

<i>Frequency</i>	<i>Calibration Factor</i>	
0.0001 to 18 GHz	0.7 to 2.0%	Coaxial, Type N Connector
7 to 10 GHz	2.0%	H Band (WR-112) Waveguide
8.2 to 12.4 GHz	1.8%	X Band (WR-90) Waveguide
12.4 to 18.0 GHz	2.0%	Ku Band (WR-62) Waveguide

---

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

18.0 to 26.5 GHz	2.5%	K Band (WR-42) Waveguide
26.5 to 40.0 GHz	2.5%	Ka Band (WR-28) Waveguide
43.0 to 45.0 GHz	4.0%	Q Band (WR-22) Waveguide
58.0 to 62.0 GHz	3.0%	V Band (WR-15) Waveguide
93.0 to 96.0 GHz	4.0%	W Band (WR-10) Waveguide

**THERMODYNAMICS***NVLAP Code:* 20/T07

Resistance Thermometry

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.01 °C	0.001 °C	Triple Point of Water
-189.3442 to -38.8344 °C	0.002 °C	Triple Point of Argon & Mercury
29.7646 °C	0.002 °C	Melting Point of Gallium
231.928 to 419.527 °C	0.002 °C	Freeze Point of Tin & Zinc

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$

NVLAP LAB CODE 105007-0

## STATE OF VIRGINIA METROLOGY LAB

1 North 14th Street, Room 025

Richmond, VA 23219-3691

Contact: Mr. Michael J. Kramer

Phone: 804-786-0479 Fax: 804-371-0351

Accreditation Valid Through: September 30, 1999

## MECHANICAL

NVLAP Code: 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
500 kg	4567 mg	Tolerance Test
300 kg	4567 mg	Tolerance Test
200 kg	2755 mg	Tolerance Test
100 kg	2755 mg	Tolerance Test
50 kg	278.9 mg	Tolerance Test
30 kg	277.9 mg	Tolerance Test
25 kg	277.5 mg	Tolerance Test
20 kg	277.4 mg	Tolerance Test
10 kg	277.1 mg	Tolerance Test
5 kg	277.2 mg	Tolerance Test
3 kg	277.2 mg	Tolerance Test
2 kg	1.56 mg	Tolerance Test
1 kg	0.576 mg	Tolerance Test
500 g	0.267 mg	Tolerance Test
300 g	0.266 mg	Tolerance Test
200 g	0.266 mg	Tolerance Test
100 g	0.033 mg	Tolerance Test
50 g	0.028 mg	Tolerance Test
30 g	0.027 mg	Tolerance Test
20 g	0.026 mg	Tolerance Test
10 g	0.014 mg	Tolerance Test
5 g	0.009 mg	Tolerance Test
3 g	0.008 mg	Tolerance Test
2 g	0.008 mg	Tolerance Test
1 g	0.007 mg	Tolerance Test
500 mg	0.0048 mg	Tolerance Test



## INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
300 mg	0.0048 mg	Tolerance Test
200 mg	0.0047 mg	Tolerance Test
100 mg	0.0047 mg	Tolerance Test
50 mg	0.0047 mg	Tolerance Test
30 mg	0.0047 mg	Tolerance Test
20 mg	0.0047 mg	Tolerance Test
10 mg	0.0047 mg	Tolerance Test
5 mg	0.0047 mg	Tolerance Test
3 mg	0.0047 mg	Tolerance Test
2 mg	0.0047 mg	Tolerance Test
1 mg	0.0047 mg	Tolerance Test

### DIMENSIONAL

*NVLAP Code:* 20/D13

Survey Rods and Tapes

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 25 ft	0.0015 inches	Metal Tapes (Bench Method)
25 to 50 ft	0.003 inches	Metal Tapes (Bench Method)
50 to 75 ft	0.0045 inches	Metal Tapes (Bench Method)
75 to 100 ft	0.006 inches	Metal Tapes (Bench Method)
0 to 25 ft	0.003 inches	Steel Tapes (Tape to Tape)
25 to 50 ft	0.006 inches	Steel Tapes (Tape to Tape)
50 to 75 ft	0.009 inches	Steel Tapes (Tape to Tape)
75 to 100 ft	0.012 inches	Steel Tapes (Tape to Tape)

### MECHANICAL

*NVLAP Code:* 20/M12

Volume and Density

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1.0 gill	0.002 gill	Volume Transfer
0.5 pint	0.001 pint	Volume Transfer
1.0 pint	0.0005 pint	Volume Transfer
1.0 quart	0.0002 quart	Volume Transfer
0.5 gallon	0.0002 gallon	Volume Transfer

## INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1.0 gallon	0.00016 gallon	Volume Transfer
50 mL	0.13 mL	Volume Transfer
100 mL	0.26 mL	Volume Transfer
200 mL	0.26 mL	Volume Transfer
500 mL	0.26 mL	Volume Transfer
1 Liter	0.0003 Liter	Volume Transfer
2 Liter	0.0003 Liter	Volume Transfer
5 Liter	0.0003 Liter	Volume Transfer
5 gallon	0.0034 gallon	Volume Transfer
100 gallon	0.05 gallon	Volume Transfer
> 100 gallon	0.05 gallon or 12 in. <sup>3</sup>	Volume Transfer

### THERMODYNAMICS

*NVLAP Code:* 20/T03

Laboratory Thermometers

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 °C to 85 °C	0.2 °C	Liquid-in-glass

### TIME AND FREQUENCY

*NVLAP Code:* 20/F01

Frequency

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
1000 to 6000 Hz	0.047 mph	Tuning forks at frequencies used in law enforcement converted to miles per hour (mph)

---

1. Represents an expanded uncertainty using a coverage factor, k=2

NVLAP LAB CODE 105013-0

**HENRY TROEMNER, INC.**  
 6825 Greenway Avenue  
 Philadelphia, PA 19142-1294  
 Contact: Mr. Wilbert D. Abele  
 Phone: 215-724-0800 Fax: 215-724-9663  
 E-Mail: troemner@troemner.com  
 URL: <http://www.troemner.com>

Accreditation Valid Through: September 30, 1999

**MECHANICAL**

*NVLAP Code:* 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks<sup>note 3</sup></i>
30 kg	12.41 mg	
20 kg	9.57 mg	
10 kg	1.18 mg	
5 kg	0.59 mg	
3 kg	0.36 mg	
2 kg	0.24 mg	
1 kg	0.136 mg	
500 g	0.073 mg	
300 g	0.049 mg	
200 g	0.031 mg	
100 g	0.0167 mg	
50 g	0.0084 mg	
30 g	0.0109 mg	
20 g	0.0075 mg	
10 g	0.0047 mg	
5 g	0.0025 mg	
3 g	0.0016 mg	
2 g	0.0012 mg	
1 g	0.0011 mg	
500 mg	0.0007 mg	
300 mg	0.0006 mg	
200 mg	0.0005 mg	
100 mg	0.0006 mg	
50 mg	0.0004 mg	
30 mg	0.0003 mg	

---

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks<sup>note 3</sup></i>
20 mg	0.0007 mg	
10 mg	0.0010 mg	
5 mg	0.0007 mg	
3 mg	0.0007 mg	
2 mg	0.0007 mg	
1 mg	0.0004 mg	
1000 kg	10.34 g	Class III Facility
500 kg	5.03 g	Class III Facility
200 kg	3.26 g	Class III Facility
100 kg	1.64 g	Class III Facility
50 kg	0.087 g	Class III Facility
30 kg	0.072 g	Class III Facility
25 kg	0.066 g	Class III Facility
20 kg	0.057 g	Class III Facility
10 kg	0.024 g	Class III Facility
5 kg	18.30 mg	Class III Facility
3 kg	16.77 mg	Class III Facility
2 kg	11.52 mg	Class III Facility
1 kg	10.09 mg	Class III Facility
500 g	10.02 mg	Class III Facility
300 g	10.01 mg	Class III Facility
3000 lb	16.791 g	Class III Facility
2500 lb	13.551 g	Class III Facility
2000 lb	10.312 g	Class III Facility
1000 lb	5.178 g	Class III Facility
500 lb	3.841 g	Class III Facility
100 lb	0.088 g	Class III Facility
50 lb	0.054 g	Class III Facility
30 lb	0.046 g	Class III Facility
25 lb	0.035 g	Class III Facility
20 lb	0.029 g	Class III Facility
10 lb	0.018 g	Class III Facility
5 lb	10.572 mg	Class III Facility
3 lb	10.127 mg	Class III Facility



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks<sup>note 3</sup></i>
2 lb	10.093 mg	Class III Facility
1 lb	10.019 mg	Class III Facility
0.5 lb	10.005 mg	Class III Facility

*NVLAP Code: 20/M12*

Volume - Pipettes

<i>Test Volume in <math>\mu</math>l<sup>note 5</sup></i>	<i>Best Uncertainty (<math>\pm</math>)in <math>\mu</math>l<sup>note 1,4</sup></i>	<i>Remarks</i>
0.2	0.0477	
0.5	0.0422	
1.0	0.0469	
2.5	0.0860	
5.0	0.0983	
10	0.32	
50	0.52	
100	0.45	
500	0.90	
1000	2.18	
2500	18.75	

1. Represents expanded uncertainty using a coverage factor,  $k=2$ .
2. Approximate value. Actual value determined by the test statistics
3. Class III Facility located at 700 Carpenters Crossing, Folcroft, PA 19032
4. Uncertainties at specified test volumes may be greater depending on the range of the unit under test.
5. It is recommended that adjustable volume pipettes not be used below 10% of capacity.

NVLAP LAB CODE 105014-0

**SOUTHERN CALIFORNIA EDISON COMPANY**

7300 Fenwick Lane  
Westminster, CA 92683  
Contact: Mr. Jack Burdick  
Phone: 714-895-0422 Fax: 714-895-0686  
E-Mail: burdicjj@sce.com

Accreditation Valid Through: March 31, 1999

**DIMENSIONAL**

NVLAP Code: 20/D03

Gage Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)</i> <sup>note 1 &amp; 2</sup>	<i>Remarks</i>
thru 1 in	3.0 $\mu$ in	Direct Comparison
> 1.0 thru 6.0 in	3.0 $\mu$ in + 1 $\mu$ in/in	Direct Comparison
7.0 in	7.0 $\mu$ in	Direct Comparison
8.0 in	7.0 $\mu$ in	Direct Comparison
10.0 in	7.0 $\mu$ in	Direct Comparison
12.0 in	7.0 $\mu$ in	Direct Comparison
16.0 in	10.0 $\mu$ in	Direct Comparison
20.0 in	10.0 $\mu$ in	Direct Comparison

**MECHANICAL**

NVLAP Code: 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)</i> <sup>note 1 &amp; 2</sup>
30 kg	42.1 mg
20 kg	21.6 mg
10 kg	4.6 mg
5 kg	2.5 mg
2 kg	1.8 mg
1 kg	0.245 mg
500 g	0.129 mg
200 g	0.058 mg
100 g	0.035 mg
50 g	0.0231 mg
20 g	0.0142 mg
10 g	0.0128 mg
5 g	0.0081 mg

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)</i> <sup><i>note 1 &amp; 2</i></sup>	<i>Remarks</i>
2 g	0.0033 mg	
1 g	0.0029 mg	
500 mg	0.0016 mg	
200 mg	0.0018 mg	
100 mg	0.0007 mg	
50 mg	0.0017 mg	
20 mg	0.0008 mg	
10 mg	0.0006 mg	
5 mg	0.0007 mg	
2 mg	0.0009 mg	
1 mg	0.0005 mg	

**ELECTROMAGNETICS - DC/LOW FREQUENCY***NVLAP Code:* 20/E06

DC Voltage

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)</i> <sup><i>note 1 &amp; 2</i></sup>	<i>Remarks</i>
10.00 V	0.28 ppm	Reference Cells
1.018 V	0.20 ppm	
1.000 V	0.46 ppm	
100 mV	2.6 ppm	Meters and Multifunction Calibrators
1.0 V	1.1 ppm	
10.0 V	1.0 ppm	
100.0 V	1.1 ppm	
1000.0 V	1.2 ppm	

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$
  2. Approximate value. Actual value determined by the test statistics.

NVLAP LAB CODE 105016-0

**FLUKE CORPORATION PRIMARY STANDARDS LABORATORY**

6920 Seaway Boulevard

P.O. Box 9090

Everett, WA 98206-9090

Contact: Mr. Raymond D. Kletke

Phone: 425-356-5694 Fax: 425-356-5649

E-Mail: rdk@tc.fluke.com

Accreditation Valid Through: June 30, 1999

**ELECTROMAGNETICS - DC/LOW FREQUENCY**

NVLAP Code: 20/E01

AC/DC Difference for Low Frequency Voltage

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*
*Frequency in Hertz*

<i>Range</i>	<i>Level</i>	<i>10</i>	<i>20</i>	<i>40</i>	<i>100</i>	<i>1k</i>	<i>10k</i>	<i>20k</i>	<i>50k</i>	<i>100k</i>	<i>300k</i>	<i>500k</i>	<i>800k</i>	<i>1M</i>
22 mV	2 mV	940	740	350	740	340	730	740	350	860	1200	1900	2100	2200
22 mV	6 mV	280	220	200	200	200	200	200	280	500	720	910	650	740
22 mV	10 mV	100	150	74	150	160	150	150	180	280	240	590	360	420
22 mV	20 mV	77	65	61	84	60	62	61	130	250	340	500	330	390
220 mV	20 mV	180	120	120	110	110	110	110	130	240	350	520	560	620
220 mV	60 mV	120	62	48	42	44	43	45	64	130	260	340	400	410
220 mV	100 mV	30	45	16	30	27	28	29	35	71	140	190	250	250
220 mV	200 mV	33	40	17	17	21	16	16	38	74	130	110	230	200
700 mV	200 mV	37	43	29	27	28	18	30	37	69	120	150	210	190
700 mV	600 mV	19	34	16	7	12	6	7	33	44	75	77	79	81
2.2 V	0.6 V	19	33	25	15	15	15	9	33	44	88	93	94	98
2.2 V	1 V	77	30	13	7	11	11	11	31	37	74	89	91	75
2.2 V	2 V	84	30	19	6	7	6	6	31	38	87	90	76	77
7 V	2 V	76	33	24	15	13	13	14	37	39	90	94	95	96
7 V	3 V	85	36	25	17	15	15	16	40	43	95	100	100	100
7 V	6 V	82	29	20	7	7	7	6	31	37	89	90	75	76
22 V	6 V	78	33	24	7	13	12	14	35	39	76	75	95	100
22 V	10 V	17	29	13	9	8	8	9	29	39	74	91	94	99
22 V	20 V	16	29	20	8	7	7	8	28	38	88	90	75	76
70 V	20 V	76	33	23	16	17	15	19	37	52	93			
70 V	30 V	80	36	24	18	19	17	22	40	56	100			
70 V	60 V	16	30	20	12	12	15	12	35	43	74			



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*

*Frequency in Hertz*

<i>Range</i>	<i>Level</i>	<i>10</i>	<i>20</i>	<i>40</i>	<i>100</i>	<i>1k</i>	<i>10k</i>	<i>20k</i>	<i>50k</i>	<i>100k</i>	<i>300k</i>	<i>500k</i>	<i>800k</i>	<i>1M</i>
220 V	60 V	75	35	20	22	20	22	23	41	54	96			
220 V	100 V	75	31	19	16	16	16	16	38	44				
220 V	200 V	22	33	15	14	14	14	15	41	52				
1000 V	200 V	92	44	33	19	16	25	30	38	61				
1000 V	600 V	95	42	27	21	20	23	23	43	63				
1000 V	1000 V	53	22	20	19	21	23	28	55	80				

*NVLAP Code: 20/E01*

AC/DC Difference for High Frequency Thermal Converters

*Best Uncertainty ( $\pm$ ) in Percent*

*Frequency in Hertz*

<i>Range</i>	<i>2 M</i>	<i>10 M</i>	<i>20 M</i>	<i>30 M</i>	<i>50 M</i>	<i>100 M</i>
0.5 V		0.1	0.2	0.2	0.5	1.0
1 V		0.1	0.2	0.2	0.5	1.0
2 V		0.08	0.16	0.16	0.4	0.8
3 V	0.08	0.1	0.16	0.2	0.5	1.0
5 V		0.1	0.2	0.2	0.5	1.0
10 V		0.1	0.2	0.2	0.5	1.0
20 V		0.1	0.15	0.2	0.5	1.0
30 V		0.08	0.16	0.16	0.4	0.8
50 V		0.08	0.16	0.16	0.4	0.8

*NVLAP Code: 20/E01*

AC/DC Difference for Low Frequency Thermal Current Converters and Shunts

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*

*Frequency in Hertz*

<i>Range</i>	<i>10</i>	<i>20</i>	<i>40</i>	<i>400</i>	<i>1 k</i>	<i>5 k</i>	<i>10 k</i>	<i>20 k</i>	<i>50 k</i>	<i>100 k</i>
10 mA				80				80	120	200
20 mA	200	80	50	80	50	80	80	80	120	200
30 mA				80				80	120	200
50 mA				80				80	120	200
0.1 A				80				80	120	200

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>										
<i>Frequency in Hertz</i>										
<i>Range</i>	<i>10</i>	<i>20</i>	<i>40</i>	<i>400</i>	<i>1 k</i>	<i>5 k</i>	<i>10 k</i>	<i>20 k</i>	<i>50 k</i>	<i>100 k</i>
0.2 A	250	80	50	80	50	80	80	80	120	200
0.3 A				80				80	120	200
0.5 A				80				80	120	200
1.0 A				80				80	120	200
2.0 A			80	80	80	80	80	80	120	200
3.0 A				80				80	120	200
5.0 A				80				80	120	200
10.0 A			80	110	80	110	110	120	200	
20.0 A				110				110	200	

NVLAP Code: 20/E02

AC Current

For Calibrators or DMMs

<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>							
<i>Frequency</i>							
<i>Current</i>	<i>10 Hz</i>	<i>20 Hz</i>	<i>40 Hz</i>	<i>400 Hz</i>	<i>1 kHz</i>	<i>5 kHz</i>	<i>10 kHz</i>
19 $\mu$ A	250	200	200	200	200	250	250
100 $\mu$ A	160	90	70	70	70	150	200
190 $\mu$ A	150	85	57	60	55	150	200
1 mA	150	80	50	50	50	80	100
1.9 mA	150	80	50	50	41	70	90
10 mA	260	90	85	85	85	85	100
19 mA	260	85	51	85	51	85	100
100 mA	260	90	85	85	85	85	100
190 mA	260	85	51	85	51	85	100
1.0 A			85	85	85	100	150
1.9 A			85	85	85	100	150
10 A			85	115	85	120	150

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E02

AC Current

5500A Console

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*

*Frequency in Hz*

Range	10	45	65	500	1 k	5 k	10k
33 $\mu$ A					180		600
190 $\mu$ A		70			80		470
329 $\mu$ A	80	60			80	150	330
330 $\mu$ A					160	180	
1.9 mA					60		100
3.29 mA	80	60			60	80	90
3.3 mA					140	150	
19 mA					60		90
32.9 mA	130	65			65	80	90
33 mA					85	90	
190 mA					60		90
329 mA	130	65			65	80	90
330 mA					85	100	
2.19 A	130	70			70	80	
2.2 A				100	100		
11 A		90	90	100	130		

NVLAP Code: 20/E02

AC Current

At Factory Annex - Multifunction Calibrators Similar to Fluke 5720A

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*

*Frequency in Hz*

Range	40	1 k	10 k
19 $\mu$ A		210	1050
190 $\mu$ A	53	53	260
1.9 mA		46	260
19 mA		53	260
190 mA	43	53	260
1.9 A	90	90	1000

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E02

AC Current

At Factory Annex - Multiproduct Calibrators Similar to Fluke 5500A

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*

*Frequency in Hz*

<i>Range</i>	<i>10</i>	<i>45</i>	<i>65</i>	<i>500</i>	<i>1 k</i>	<i>5 k</i>	<i>10k</i>
33 $\mu$ A					1400		2200
190 $\mu$ A		270			360		1600
329 $\mu$ A	380	220			270	560	1600
330 $\mu$ A					270	390	
1.9 mA					170		750
3.29 mA	320	140			140	260	730
3.3 mA					260	390	
19 mA					150		750
32.9 mA	350	140			140	260	740
33 mA					260	390	
190 mA					170		750
329 mA	350	140			140	250	740
330 mA					279	1300	
2.19 A	410	150			210	1200	
2.2 A				300	550		
11 A	110		120	160	430		

NVLAP Code: 20/E05

DC Resistance

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
0.01 to <0.1	10	Guildline Bridge
0.1 to <1	.5	Guildline Bridge
1 to <11	0.3	Guildline Bridge
11 to <110	0.35	Guildline Bridge
110 to <190	0.45	Guildline Bridge
190 to <11 k	0.4	Guildline Bridge
11 k to <19 k	0.45	Guildline Bridge
19 k to <110 k	0.4	Guildline Bridge



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
110 k to <1.1 M	1.2	Guildline Bridge
1	0.5	Low Ohm System
10	0.6	Low Ohm System
100	0.75	Low Ohm System
1 k	0.6	Low Ohm System
10 k	0.75	Low Ohm System

NVLAP Code: 20/E05  
DC Resistance

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
1	12	5700A Console
1.9	10	5700A Console
10	5	5700A Console
19	4	5700A Console
100	3	5700A Console
190	2	5700A Console
1 k	2	5700A Console
1.9 k	2	5700A Console
10 k	0.5	5700A Console
19 k	1	5700A Console
100 k	2	5700A Console
190 k	2.5	5700A Console
1 M	3	5700A Console
1.9 M	3.5	5700A Console
3 M	4	5700A Console
10 M	4.5	5700A Console
19 M	6	5700A Console
30 M	15	5700A Console
100 M	25	5700A Console
300 M	60	5700A Console

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E05

DC Resistance

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
0	100	5500A Console
2.0	55	5500A Console
10.9	25	5500A Console
11.9	25	5500A Console
19	70	5500A Console
30	70	5500A Console
33	40	5500A Console
109	21	5500A Console
119	17	5500A Console
190	13	5500A Console
300	12	5500A Console
330	11	5500A Console
1.09 k	10	5500A Console
1.19 k	10	5500A Console
1.9 k	13	5500A Console
3 k	12	5500A Console
3.3 k	11	5500A Console
10.9 k	10	5500A Console
11.9 k	10	5500A Console
19 k	12	5500A Console
30 k	12	5500A Console
33 k	11	5500A Console
109 k	10	5500A Console
119 k	10	5500A Console
190 k	24	5500A Console
300 k	20	5500A Console
330 k	20	5500A Console
1.09 M	16	5500A Console
1.19 M	15	5500A Console
1.9 M	8	5500A Console
3 M	8	5500A Console
3.3 M	85	5500A Console
10.9 M	62	5500A Console

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
11.9 M	61	5500A Console
19 M	30	5500A Console
30 M	30	5500A Console
33 M	550	5500A Console
109 M	525	5500A Console
119 M	525	5500A Console
290 M	100	5500A Console

*NVLAP Code:* 20/E05

Resistance

At Factory Annex - Multifunction Calibrators Similar to Fluke 5720A

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
1	24.0	5720A Console
1.9	20.0	5720A Console
10	10.0	5720A Console
19	8.4	5720A Console
100	3.2	5720A Console
190	2.6	5720A Console
1 k	3.0	5720A Console
1.9 k	2.5	5720A Console
10 k	2.0	5720A Console
19 k	2.2	5720A Console
100 k	2.2	5720A Console
190 k	2.4	5720A Console
1 M	4.0	5720A Console
1.9 M	4.7	5720A Console
10 M	8.0	5720A Console
19 M	10.5	5720A Console
100 M	35.5	5720A Console

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E05

DC Resistance

At Factory Annex - Multifunction Calibrators Similar to Fluke 5500A

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
2	100	5500A Console
10.9	40	5500A Console
11.9	40	5500A Console
19	90	5500A Console
30	90	5500A Console
33	50	5500A Console
109	40	5500A Console
119	20	5500A Console
190	20	5500A Console
300	20	5500A Console
330	15	5500A Console
1.1 k	15	5500A Console
1.2 k	15	5500A Console
1.9 k	15	5500A Console
3 k	15	5500A Console
3.3 k	15	5500A Console
10.9	15	5500A Console
11.9 k	15	5500A Console
19 k	15	5500A Console
30 k	15	5500A Console
33 k	15	5500A Console
109 k	15	5500A Console
119 k	15	5500A Console
190 k	25	5500A Console
300 k	25	5500A Console
330 k	25	5500A Console
1.1 M	25	5500A Console
1.2 M	25	5500A Console
1.9 M	25	5500A Console
3.0 M	25	5500A Console
3.3 M	100	5500A Console
10.9 M	100	5500A Console



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range in ohms</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
11.9 M	100	5500A Console
19 M	100	5500A Console
30 M	100	5500A Console
33 M	800	5500A Console
109 M	800	5500A Console
119 M	800	5500A Console
290 M	800	5500A Console

NVLAP Code: 20/E05

DC Current

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
to 19 $\mu$ A	10	Calibrators or DMMs
100 $\mu$ A to 190 $\mu$ A	4	Calibrators or DMMs
1.0 mA to 1.9 mA	4	Calibrators or DMMs
10 mA to 19 mA	9	Calibrators or DMMs
100 mA to 190 mA	10	Calibrators or DMMs
1.0 A	11	Calibrators or DMMs
1.9 A	10	Calibrators or DMMs
10 A	22	Calibrators or DMMs

NVLAP Code: 20/E05

DC Current

<i>Range in (<math>\pm</math>) Amperes</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
0	3 (nA)	5500A Console
190 $\mu$	8	5500A Console
1.9 m	7	5500A Console
3.29 m	7	5500A Console
19 m	7	5500A Console
32.9 m	7	5500A Console
190 m	8	5500A Console
329 m	8	5500A Console
2.19 m	14	5500A Console
11	30	5500A Console

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E05

DC Current

At Factory Annex - Multifunction Calibrators Similar to Fluke 5720A

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
19 $\mu$ A	100	5720A Console
190 $\mu$ A	28	5720A Console
-190 $\mu$ A	16	5720A Console
$\pm$ 19 mA	8	5720A Console
$\pm$ 19 mA	12	5720A Console
100 mA	12	5720A Console
$\pm$ 190 mA	12	5720A Console
1 A	19	5720A Console
$\pm$ 1.9 A	16	5720A Console

NVLAP Code: 20/E05

DC Current

At Factory Annex - Multifunction Calibrators Similar to Fluke 5500A

<i>Range (<math>\pm</math>) Amperes</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
190 $\mu$	58	5500A Console
1.9 m	32	5500A Console
3.3 m	29	5500A Console
19 m	21	5500A Console
32.9 m	20	5500A Console
190 m	42	5500A Console
329 m	40	5500A Console
2.29	40	5500A Console
11	65	5500A Console

NVLAP Code: 20/E06

DC Voltage

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Reference Standards		
10.00 V	0.02 ppm <sup>note 2</sup>	Direct Comparison - in lab
10.00 V	0.06 ppm <sup>note 2</sup>	Direct Comparison - remote location

## INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

### Well Isolated DC Sources or Voltmeters

200 $\mu$ V to 10 V	$(0.02 + 0.1E^{0.2}) \mu V^{note\ 2, 3}$	Direct against J Array
> 10 V to 100 V	0.5 ppm <sup>note 2</sup>	J Array & Divider
> 100 V to 1000 V	0.7 ppm <sup>note 2</sup>	J Array & Divider

### Calibrators or Digital Voltmeters

0.1 V	3.0 ppm	Transfer Method
1.0 V	0.8 ppm	Transfer Method
10.0 V	0.3 ppm	Transfer Method
100.0 V	0.5 ppm	Transfer Method
1000.0 V	0.8 ppm	Transfer Method

NVLAP Code: 20/E06

DC Voltage

<i>Range in (<math>\pm</math>) Volts</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
0	0.5	5500A Console
0.329	7.0	5500A Console
3.29	5.5	5500A Console
32.9	8.0	5500A Console
50	8.0	5500A Console
329	8.0	5500A Console
334	8.5	5500A Console
900	7.0	5500A Console
1020	7.0	5500A Console

NVLAP Code: 20/E06

DC Voltage

At Factory Annex - Multifunction Calibrators Similar to Fluke 5720A

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
100 mV	5.0	5720A Console
-100 mV	6.5	5720A Console
$\pm 1.0$ V	1.2	5720A Console
$\pm 10.0$ V	0.7	5720A Console
$\pm 100.0$ V	1.0	5720A Console
$\pm 1000.0$ V	1.4	5720A Console

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E06

DC Voltage

At Factory Annex - Multiproduct Calibrators Similar to Fluke 5500A

<i>Range in (±) Volts</i>	<i>Best Uncertainty (±) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
0.329	8	5500A Console
3.29	7	5500A Console
32.9	10	5500A Console
50	9	5500A Console
329	9	5500A Console
334	10	5500A Console
900	9	5500A Console
1020	9	5500A Console

NVLAP Code: 20/E09

LF AC Voltage

*Best Uncertainty in ppm (±)<sup>note 1</sup>*

*Frequency in Hertz*

<i>Range</i>	<i>10</i>	<i>20</i>	<i>40</i>	<i>100</i>	<i>1k</i>	<i>10k</i>	<i>20k</i>	<i>50k</i>	<i>100k</i>	<i>300k</i>	<i>500k</i>	<i>800k</i>	<i>1 M</i>
2 mV	1000	840	520	840	510	830	840	520	940	1300	2000	2200	2300
6 mV	310	260	240	240	240	240	240	320	520	740	920	670	760
10 mV	130	170	110	170	180	170	170	200	300	260	600	370	430
20 mV	89	78	76	95	75	76	76	140	260	350	510	340	400
60 mV	130	65	52	46	48	47	49	67	130	280	340	400	410
100 mV	36	47	22	33	31	32	32	38	73	140	190	250	250
200 mV	35	42	20	20	24	20	19	40	75	130	110	230	200
600 mV	20	35	18	10	14	10	10	33	44	76	78	80	82
1 V	77	31	15	10	13	13	13	31	38	74	89	91	75
2 V	84	31	20	9	9	9	9	32	38	88	90	77	77
3 V	85	37	26	18	16	16	17	40	43	95	100	100	100
6 V	82	30	21	9	9	9	8	32	38	89	90	75	76
10 V	18	29	14	10	9	9	10	29	39	74	91	94	99
20 V	17	29	21	10	9	9	10	28	38	88	90	75	76
30 V	81	37	26	20	21	19	24	41	57	100			
60 V	18	31	22	14	14	16	14	36	44	74			
100 V	76	32	20	18	17	17	18	39	44				



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

*Best Uncertainty in ppm ( $\pm$ )<sup>note 1</sup>*

*Frequency in Hertz*

<i>Range</i>	<i>10</i>	<i>20</i>	<i>40</i>	<i>100</i>	<i>1k</i>	<i>10k</i>	<i>20k</i>	<i>50k</i>	<i>100k</i>	<i>300k</i>	<i>500k</i>	<i>800k</i>	<i>1 M</i>
200 V	23	33	16	15	16	15	16	41	52				
600 V	95	43	29	22	22	24	25	44	64				
1000 V	54	23	22	21	23	24	29	58	81				

NVLAP Code: 20/E09

AC Voltage

Multiproduct Calibrators Similar to Fluke 5500A

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*

*Frequency in Hertz*

<i>Range in Volts</i>	<i>9.5</i>	<i>10</i>	<i>45</i>	<i>1 k</i>	<i>5k</i>	<i>8 k</i>	<i>10 k</i>	<i>18 k</i>	<i>20 k</i>	<i>50 k</i>	<i>90 k</i>	<i>100 k</i>	<i>450 k</i>	<i>500 k</i>
0.01			250	250	250		250							
0.03	800	250	100	100			100		100	160		270	750	
0.3	800	170	30	30			30		35	50		80		300
3.0	800	160	25	25			25		25	50		70	350	
30	800	160	25	25			25		25	50	100			
300			35	35			35	45						
1000			35	35	35	35								

NVLAP Code: 20/E09

AC Voltage

At Factory Annex - Multifunction Calibrators Similar to Fluke 5720A

*Best Uncertainty ( $\pm$ ) in ppm<sup>note 1</sup>*

*Frequency in Hertz*

<i>Range</i>	<i>40</i>	<i>50</i>	<i>1 k</i>	<i>20 k</i>	<i>100 k</i>	<i>300 k</i>	<i>500 k</i>	<i>1 Mhz</i>
1.9 mV			740	840				
19 mV	90		90	90	270	420		1100
190 mV	30		60	80	130	240		740
600 mV	30		20	20	50	130		500
1 V	20		10	10	50	100		400
2 V			20	20				400
3 V	30		20	20	50	180		670
10 V	20		10	10	40	140		400

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>								
<i>Frequency in Hertz</i>								
<i>Range</i>	<i>40</i>	<i>50</i>	<i>1 k</i>	<i>20 k</i>	<i>100 k</i>	<i>300 k</i>	<i>500 k</i>	<i>1 Mhz</i>
1.9 mV			740	840				
20 V			10	10				400
30 V	30		20	20	60	330	1700	
100 V	20		20	20	50			
200 V	25		20		60			
500 V		30	20					
1100 V		25	30					

*NVLAP Code:* 20/E09

AC Voltage

At Factory Annex - Multiproduct Calibrators Similar to Fluke 5500A

<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>									
<i>Frequency in Hertz</i>									
<i>Range</i>	<i>10</i>	<i>45</i>	<i>1 k</i>	<i>5 k</i>	<i>10 k</i>	<i>20 k</i>	<i>50 k</i>	<i>100 k</i>	<i>500 k</i>
0.03 V	300	180	180		180	180	250	350	900
0.3 V	180	27	27		27	27	50	75	380
3.0 V	180	27	27		27	27	50	75	380
30 V	160	30	30		30	30	55	100	
300 V		50	40		40	60			
1000 V		50	50	50	50 <sup>note 4</sup>				

*NVLAP Code:* 20/E10

Capacitance

Three Wire

<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>		
<i>Frequency in Hertz</i>		
<i>Range</i>	<i>1 k</i>	<i>10 k</i>
1.0 pF to 1.1111 $\mu$ F	0.01% + (0.002% * C $\mu$ F) f <sup>2</sup> kHz	0.01% + (0.002% * C $\mu$ F) f <sup>2</sup> kHz
1.0 pF to 0.001 $\mu$ F	0.01%	0.01%
0.001 $\mu$ F to 0.01 $\mu$ F	0.01%	0.012%
0.01 $\mu$ F to 0.05 $\mu$ F	0.01%	0.02%

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>		
<i>Frequency in Hertz</i>		
<i>Range</i>	<i>1 k</i>	<i>10 k</i>
0.05 $\mu$ F to 0.1 $\mu$ F	0.01 %	0.03 %
0.1 $\mu$ F to 0.5 $\mu$ F	0.011 %	0.11 %
0.5 $\mu$ F to 1.11 $\mu$ F	0.012 %	0.21 %
Two Wire		
10 pF to 1.1111 $\mu$ F	0.01 % + (0.002 % * C $\mu$ F)F <sup>2</sup> kHz + 0.5 pF	0.01 % + (0.002 % * C $\mu$ F)f <sup>2</sup> kHz + 0.5 pF
10 pF	5 %	5 %
100 pF	0.5 %	0.5 %
1000 pF	0.06 %	0.06 %
0.01 $\mu$ F	0.015 %	0.017 %
0.1 $\mu$ F to 1 $\mu$ F	0.015 %	0.017 %

NVLAP Code: 20/E10

Capacitance

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
350 pF @ 1000 Hz	2500	5500A Console
480 pF @ 1000 Hz	2100	5500A Console
600 pF @ 1000 Hz	1300	5500A Console
1 nF @ 1000 Hz	1000	5500A Console
2 nF @ 1000 Hz	800	5500A Console
7 nf @ 1000 Hz	710	5500A Console
10.9 nF @ 1000 Hz	700	5500A Console
20 nF @ 1000 Hz	700	5500A Console
70 nF @ 1000 Hz	690	5500A Console
200 nF @ 1000 Hz	690	5500A Console
300 nF @ 1000 Hz	680	5500A Console
700 nF @ 100 Hz	680	5500A Console
2 $\mu$ F @ 100 Hz	690	5500A Console
3 $\mu$ F @ 100 Hz	690	5500A Console
7 $\mu$ F @ 100 Hz	690	5500A Console
10.9 $\mu$ F @ 100 Hz	690	5500A Console
20 $\mu$ F @ 100 Hz	700	5500A Console

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
30 $\mu$ F @ 100 Hz	710	5500A Console
70 $\mu$ F @ 100 Hz	740	5500A Console
200 $\mu$ F @ 100 Hz	1400	5500A Console
300 $\mu$ F @ 100 Hz	1500	5500A Console
330 $\mu$ F @ 50 Hz	1600	5500A Console
1.1 mF @ 50 Hz	2400	5500A Console

NVLAP Code: 20/E10

Capacitance

At Factory Annex - Multiproduct Calibrators Similar to Fluke 5500A

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
350 pF @ 1000 Hz	3200	5500A Console
480 pF @ 1000 Hz	3000	5500A Console
600 pF @ 1000 Hz	1600	5500A Console
1 nF @ 1000 Hz	1600	5500A Console
2 nF @ 1000 Hz	1200	5500A Console
7 nF @ 1000 Hz	1200	5500A Console
10.9 nF @ 1000 Hz	1000	5500A Console
20 nF @ 1000 Hz	1000	5500A Console
70 nF @ 1000 Hz	820	5500A Console
200 nF @ 1000 Hz	820	5500A Console
300 nF @ 1000 Hz	820	5500A Console
700 nF @ 100 Hz	820	5500A Console
2 $\mu$ F @ 100 Hz	850	5500A Console
3 $\mu$ F @ 100 Hz	850	5500A Console
7 $\mu$ F @ 100 Hz	850	5500A Console
10.9 $\mu$ F @ 100 Hz	850	5500A Console
20 $\mu$ F @ 100 Hz	850	5500A Console
30 $\mu$ F @ 100 Hz	860	5500A Console
70 $\mu$ F @ 100 Hz	900	5500A Console
200 $\mu$ F @ 100 Hz	1500	5500A Console
300 $\mu$ F @ 100 Hz	1550	5500A Console
330 $\mu$ F @ 50 Hz	1700	5500A Console
1.1 mF @ 50 Hz	2400	5500A Console



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E15

Phase

5500A Console

*Best Uncertainty ( $\pm$ ) in degrees<sup>note 1</sup>*

<i>Range Phase (degrees)</i>	<i>Frequency in Hertz</i>						<i>Mode</i>
	<i>60</i>	<i>65</i>	<i>400</i>	<i>1 k</i>	<i>5 k</i>	<i>10 k</i>	
0		0.02	0.06				ACV/ACC
0	0.02		0.06	0.06	0.06	0.06	ACV/ACV
60	0.02		0.06	0.06	0.06	0.06	ACV/ACV
90	0.02		0.06	0.06	0.06	0.06	ACV/ACV

NVLAP Code: 20/E15

Phase

At Factory Annex - Multiproduct Calibrators Similar to Fluke 5500A

<i>Range in Degrees</i>	<i>Frequency in Hz</i>	<i>Best Uncertainty (<math>\pm</math>) in Degrees<sup>note 1</sup></i>
0	60 to 65	0.025
0	400 to 10 k	0.075
60	60	0.025
60	400 to 10 k	0.075
90	60	0.025
90	400 to 10 k	0.075

## TIME AND FREQUENCY

NVLAP Code: 20/F01

Frequency

<i>Range in Hz</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
119 to 120	1	5500A Console
1000	1	5500A Console
100000	1	5500A Console

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/F01

Frequency

At Factory Annex - Multiproduct Calibrators Similar to Fluke 5500A

<i>Range in Hz</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
119	5	5500A Console
120	5	5500A Console
1000	5	5500A Console
100000	5	5500A Console

## THERMODYNAMICS

NVLAP Code: 20/T03

Temperature

<i>Range in °C</i>	<i>Best Uncertainty (<math>\pm</math>) in mK<sup>note 1</sup></i>	<i>Remarks</i>
-40 to -197	11	
-1 to -40	8	
-1 to 1	5	
0.01	4.5	
1 to 150	10	
150 to 350	15	

NVLAP Code: 20/T06

Thermocouple Temperature

<i>Range in °C</i>	<i>Best Uncertainty (<math>\pm</math>) in °C<sup>note 1</sup></i>	<i>Remarks</i>
Simulated TC Temperature with UUT Sourcing, 5500 Console Measuring		
0	0.03	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
100	0.03	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
-100	0.03	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
1000	0.04	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
-1000	0.04	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
10000	0.08	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
-10000	0.08	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature

## INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

### Simulated TC Temperature with UUT Measurement, 5500A Console Sourcing

0	0.05	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
10000	0.12	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
-10000	0.12	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
30000	0.24	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature
-30000	0.24	10 $\mu$ V/C Linear Mode, Voltage Simulates Temperature

### Thermocouple Temperature

23	0.18	Type K
----	------	--------

**NVLAP Code:** 20/T08

Simulated Temperature

At Factory Annex - Multiproduct Calibrators Similar to Fluke 5500A

<i>Range in °C</i>	<i>Function</i>	<i>Best Uncertainty (<math>\pm</math>) in °C<sup>note 1</sup></i>
0 to $\pm 1000$	Source	0.1
$\pm 10000$	Source	0.16
0	Measure	0.1
23	Measure	0.05
$\pm 10000$	Measure	0.2
$\pm 30000$	Measure	0.4

1. Represents an expanded uncertainty at a level of confidence of 99%; coverage factor  $k$  is determined by the test statistics.
2. Approximate value. Actual value determined by the test statistics.
3. E = Actual Voltage
4. 1000 V Limit is 8 kHz.

NVLAP LAB CODE 105017-0

**LOCKHEED MARTIN TECHNICAL OPERATIONS**

1111 Lockheed Way, P.O. Box 3504  
 Bldg. 195A, Org 48-70  
 Sunnyvale, CA 94089-3504  
 Contact: Dr. Klaus B. Jaeger  
 Phone: 408-756-0270 Fax: 408-742-4435  
 E-Mail: klaus.jaeger@lmco.com

Accreditation Valid Through: December 31, 1999

**DIMENSIONAL**

NVLAP Code: 20/D03

Gage Blocks

	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
He-Ne Laser	633 nm	0.0014 ppm	Comparison
NPL-Tesa Interferometer	0.01 to 12 in	$\sqrt{(25.0 \text{ nm})^2 + (0.32 \frac{\text{nm}}{\text{mm}} L(\text{nm}))^2}$ nm	Interferometer
Gage Block Sets	5.0 to 12 in	1.8 to 4.0 $\mu\text{in}$	Interferometer
	0.01 to 12 in	0.98 to 4.0 $\mu\text{in}$	Interferometer
	0.3 to 100 mm	25 to 41 nm	Interferometer
	0.01 to 12 in	1.2 to 5.0 $\mu\text{in}$	Comparator
	16 to 20 in	6.6 to 8.2 $\mu\text{in}$	Comparator
	0.3 to 100 mm	25.6 to 51.2 nm	Comparator

**ELECTROMAGNETIC - DC/LOW FREQUENCY**

NVLAP Code: 20/E01

Thermal Voltage Converters

*Single-Range Coaxial Thermal Voltage Converters (Best uncertainty ( $\pm$ ) in  $\mu\text{V/V}$  or  $10^{-6}$ )<sup>note 1</sup>*
*Frequency in Hertz*

<i>Range</i>	<i>10</i>	<i>20</i>	<i>40</i>	<i>100</i>	<i>1 k</i>	<i>20 k</i>	<i>50 k</i>	<i>100 k</i>	<i>200 k</i>	<i>300 k</i>	<i>500 k</i>	<i>1 M</i>
1 V	20	16	14	10	12	12	32	48	-	84	84	84
3 V	20	16	20	10	10	10	32	48	-	84	84	84
6 V	20	16	16	10	10	10	40	48	-	84	84	84
10 V	20	16	16	10	10	10	32	48	-	84	84	84



*Single-Range Coaxial Thermal Voltage Converters (Best uncertainty ( $\pm$ ) in  $\mu\text{V/V}$  or  $10^{-6}$ )<sup>note 1</sup>*

Range	Frequency in Hertz											
	10	20	40	100	1 k	20 k	50 k	100 k	200 k	300 k	500 k	1 M
30 V	24	18	16	14	10	14	32	48	84	-	-	-
60 V	24	18	16	14	10	14	32	48	84	-	-	-
100 V	24	18	16	16	16	16	38	60	86 <sup>note 4</sup>	-	-	-
300 V	150 <sup>note 4</sup>	40 <sup>note 4</sup>	40 <sup>note 4</sup>	16	24	16	38	60	-	-	-	-
500 V	150 <sup>note 4</sup>	40 <sup>note 4</sup>	40 <sup>note 4</sup>	20	20	20	38	60 <sup>note 4</sup>	-	-	-	-
1000 V	150 <sup>note 4</sup>	50 <sup>note 4</sup>	50 <sup>note 4</sup>	46	36	32	40 <sup>note 4</sup>	60 <sup>note 4</sup>	-	-	-	-

*Multi-Range Coaxial Thermal Voltage Converters (Best uncertainty ( $\pm$ ) in  $\mu\text{V/V}$  or  $10^{-6}$ )<sup>note 1</sup>*

	Frequency in Hertz									
Range	50	1 k	10 k	20 k	30 k	50 k	100 k	200 k	500 k	1 M
0.5 V	36	-	-	56	-	52	66	-	126	154
1 V	38	-	-	44	-	56	72	-	120	142
2 V	38	-	-	44	-	56	72	-	120	142
3 V	38	-	-	44	-	70	82	-	120	142
5 V	38	-	-	44	-	70	82	-	120	142
10 V	56	-	-	60	-	70	82	-	120	142
20 V	56	-	-	60	-	70	82	122	-	-
30 V	56	-	-	62	-	70	82	134	-	-
50 V	78	-	-	62	-	90	108	198	-	-
100 V	78	-	-	62	-	92	110	-	-	-
200 V	78	-	-	84	-	92	126	-	-	-
300 V	82	-	92	-	94	92	150	-	-	-
500 V	82	-	92	-	96	104	-	-	-	-
1000 V	88	90	92	102	-	-	-	-	-	-

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/E05

DC Resistance

Primary Reference Transfer Level

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
1.0 ohm	0.21	Direct Comparison
10.0 k ohm	0.25	Substitution Method

Primary Reference Level

0.001 ohm	0.78	Direct Comparison
0.01 ohm	0.78	Direct Comparison
0.1 ohm	0.78	Direct Comparison
1.0 ohm	0.26	Substitution Method
10.0 ohm	0.28	Direct Comparison
100.0 ohm	0.34	Direct Comparison
1.0 k ohm	0.35	Direct Comparison
10.0 k ohm	0.33	Substitution Method
100.0 k ohm	2.1	Direct Comparison
1.0 M ohm	3.2	Direct Comparison

Working Level

0.001	0.78	Direct Comparison
0.01	0.78	Direct Comparison
0.1	0.78	Direct Comparison
1.0	0.29	Substitution Method
10.0	0.32	Substitution Method
100.0	0.42	Substitution Method
1.0 k	0.56	Substitution Method
10.0 k	0.37	Substitution Method
100.0 k	2.2	Direct Comparison
1.0 M	3.6	Substitution Method

**ELECTROMAGNETIC - DC/LOW FREQUENCY**

*NVLAP Code:* 20/E06

DC Voltage

	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in ppm<sup>note 1</sup></i>	<i>Remarks</i>
Reference Standards	10.0 volts	0.025	AJJ
	1.0 volt	0.13	AJJ
	1.018 volts	0.10	AJJ

Zeners

10.0 volts	0.218	Direct Comparison
1.0 volt	0.277	Direct Comparison
1.018 volts	0.276	Direct Comparison

Standard Reference (transvolt)

1.018 volts	1.8 <sup>note 2</sup>	Direct Comparison
-------------	-----------------------	-------------------

*NVLAP Code:* 20/E10

LF Capacitance

	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Capacitance (Automatic Bridge, All Connectors)			
	1.0-1000 pF @ 1 kHz	0.00048%	Direct/Substitution Measurement
Capacitance (GR874 Connector, 3 Terminal)			
	0.1pF @ 1 kHz	0.0085%	Direct Measurement
	1.0pF @ 1 kHz	0.0079%	Direct Measurement
	10.0 pF @ 1 kHz	0.0039%	Substitution Method
	100.0 pF @ 1 kHz	0.0039%	Substitution Method
	1000.0 pF @ 1 kHz	0.00056%	Direct Measurement
	10000.0 pF @ 1 kHz	0.0089%	Direct Measurement
Capacitance (BNC Connector, 3 Terminal)			
	1.0 pF @ 1 kHz	0.00063%	Direct Measurement
	10.0 pF @ 1 kHz	0.00034%	Substitution Method
	100.0 pF @ 1 kHz	0.00026%	Substitution Method
	100.0 pF @ 1 kHz	0.0098%	Direct Measurement
	300.0 pF @ 1 kHz	0.0098%	Direct Measurement
	500.0 pF @ 1 kHz	0.0098%	Direct Measurement
	1000.0 pF @ 1 kHz	0.0098%	Direct Measurement

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Capacitance (GR900 Connector, 2 Terminal)		
1.0 pF @ 1 kHz	0.39%	Direct Measurement
2.0 pF @ 1 kHz	0.20%	Direct Measurement
5.0 pF @ 1 kHz	0.079%	Direct Measurement
10.0 pF @ 1 kHz	0.040%	Direct Measurement
100.0 pF @ 1 kHz	0.013%	Substitution Method
1000.0 pF @ 1 kHz	0.0061%	Direct Measurement
10000.0 pF @ 1 kHz	0.0061%	Direct Measurement
Capacitance (HP-BNC Connector, 4 Terminal)		
1.0 pF @ 1 kHz	0.0079%	Direct Measurement
10.0 pF @ 1 kHz	0.0059%	Direct Measurement
100.0 pF @ 1 kHz	0.0059%	Direct Measurement
1000.0 pF @ 1 kHz	0.0059%	Direct Measurement
Capacitance (Banana and Binding Post, 2 or 3 Terminal)		
100.0 pF @ 1 kHz	0.0049%	Direct Measurement
1.0 nF @ 1 kHz	0.009%	Direct Measurement
2.0 nF @ 1 kHz	0.0089%	Direct Measurement
5.0 nF @ 1 kHz	0.0089%	Direct Measurement
10.0 nF @ 1 kHz	0.0089%	Direct Measurement
20.0 nF @ 1 kHz	0.0089%	Direct Measurement
50.0 nF @ 1 kHz	0.0091%	Direct Measurement
0.1 uF @ 1 kHz	0.0091%	Direct Measurement
0.2 uF @ 1 kHz	0.011%	Direct Measurement
0.5 uF @ 1 kHz	0.018%	Direct Measurement
1.0 uF @ 1 kHz	0.022%	Direct Measurement

NVLAP Code: 20/E13

Magnetics

Permanent Magnets, Transverse

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Method</i>
0.05 Tesla	0.10%	Direct Transfer
0.1 Tesla	0.58%	Direct Transfer
0.2 Tesla	0.14%	Direct Transfer
0.3 Tesla	0.24%	Direct Transfer
0.5 Tesla	0.46%	Direct Transfer
1.0 Tesla	0.08%	Direct Transfer



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## TIME AND FREQUENCY

NVLAP Code: 20/F01

Frequency Dissemination

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
Frequency Accuracy: Cesium Beam		
1.0 MHz	$2.16 \times 10^{-13}$	Primary Reference/Working Standard
5.0 MHz	$2.16 \times 10^{-13}$	Primary Reference/Working Standard
10.0 MHz	$2.16 \times 10^{-13}$	Primary Reference/Working Standard

NVLAP Code: 20/F03

Oscillator Characterization

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks <sup>note 3</sup>
Phase Noise (5 MHz Carrier)		
Offset Frequency		
		System Noise Floor
1 Hz	2.48 dB	-119.19 dBc/Hz
2 Hz	2.48 dB	-130.81 dBc/Hz
5 Hz	2.48 dB	-139.83 dBc/Hz
10 Hz	2.48 dB	-144.79 dBc/Hz
20 Hz	2.48 dB	-148.30 dBc/Hz
50 Hz	2.48 dB	-153.00 dBc/Hz
100 Hz	2.48 dB	-157.48 dBc/Hz
200 Hz	2.48 dB	-160.82 dBc/Hz
500 Hz	2.48 dB	-164.74 dBc/Hz
1000 Hz	2.48 dB	-168.36 dBc/Hz
2000 Hz	2.48 dB	-169.98 dBc/Hz
5000 Hz	2.48 dB	-172.40 dBc/Hz
10000 Hz	2.48 dB	-173.12 dBc/Hz
20000 Hz	2.48 dB	-173.90 dBc/Hz
50000 Hz	2.48 dB	-173.88 dBc/Hz
100000 Hz	2.48 dB	-174.18 dBc/Hz
Phase Noise (10 MHz Carrier)		
1 Hz	2.48 dB	-113.67 dBc/Hz
2 Hz	2.48 dB	-125.75 dBc/Hz
5 Hz	2.48 dB	-136.63 dBc/Hz
10 Hz	2.48 dB	-143.17 dBc/Hz
20 Hz	2.48 dB	-148.10 dBc/Hz
50 Hz	2.48 dB	-153.08 dBc/Hz

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks<sup>note 3</sup></i>
100 Hz	2.48 dB	-156.91 dBc/Hz
200 Hz	2.48 dB	-159.86 dBc/Hz
500 Hz	2.48 dB	-163.57 dBc/Hz
1000 Hz	2.48 dB	-166.96 dBc/Hz
2000 Hz	2.48 dB	-168.45 dBc/Hz
5000 Hz	2.48 dB	-168.94 dBc/Hz
10000 Hz	2.48 dB	-169.67 dBc/Hz
20000 Hz	2.48 dB	-168.54 dBc/Hz
50000 Hz	2.48 dB	-169.28 dBc/Hz
100000 Hz	2.48 dB	-171.02 dBc/Hz
Amplitude Noise (5 MHz Carrier)		
1 Hz thru 1 MHz	2.48 dB	
Amplitude Noise (10 MHz Carrier)		
1 Hz thru 1 MHz	2.48 dB	
Amplitude Noise (10.6 GHz Carrier)		
10 Hz thru 1 MHz	2.48 dB	

## MECHANICAL

NVLAP Code: 20/M11

Acceleration

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
10 Hz @ 2 g	3.6%	Double Displacement Back to Back Cal
15 Hz @ 5 g	2.6%	Double Displacement Back to Back Cal
30-50Hz @10 g	2.6%	Double Displacement Back to Back Cal
100 Hz @ 5 g	1.6%	Double Displacement Back to Back Cal
100-2000 Hz @ 10g	1.6%	Double Displacement Back to Back Cal
2000 Hz @ 5 g	1.4%	Double Displacement Back to Back Cal
2.5 - 10 kHz @ 10g	4.2%	Double Displacement Back to Back Cal

**THERMODYNAMICS**

*NVLAP Code:* 20/T07

Resistance Thermometry

SPRT, Fixed Point, 83.8058 to 933.473 K

<i>ITS-90 Sub Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1, 5</sup></i>	<i>Required Fixed Points</i>
83.8058 to 273.16 K	0.00052 K	TP Ar, Hg and H <sub>2</sub> O
234.3156 to 302.9146 K	0.00030 K	TP Hg, H <sub>2</sub> O and MP Ga
273.15 to 302.9146 K	0.00062 K	MP Ga and TP H <sub>2</sub> O
273.15 to 429.7485 K	0.00044 K	FP In and TP H <sub>2</sub> O
273.15 to 505.078 K	0.0010 K	FP Sn, In and TP H <sub>2</sub> O
273.15 to 692.677 K	0.0010 K	FP Zn, Sn and TP H <sub>2</sub> O
273.15 to 933.473 K	0.0012 K	FP Al, Zn, Sn and TP H <sub>2</sub> O

RTD Devices (Typically PRT, thermistor, etc.)

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Method</i>
77 to 553 K	0.0026 K	Comparison
553 to 693 K	0.017 K	Comparison

1. Represents an expanded uncertainty using a coverage factor, k=2
2. Approximate value. Actual value determined by the test statistics.
3. External customer oscillator AM or PM noise must be >20 dB above system noise floor. Oscillators with lower noise levels are individually analyzed with correspondingly higher uncertainties.
4. Manual measurements to be performed.
5. Actual SPRT uncertainty is a smooth curve propagated from fixed point uncertainties and may be lower than shown here, as temperatures approach the triple point of water. (reference NISTIR 5319)

NVLAP LAB CODE 105018-0

**CDRH X-RAY CALIBRATION LABORATORY**

Health X-Ray Calibration Laboratory  
 12720 Twinbrook Parkway HFZ-143  
 Rockville, MD 20857  
 Contact: Mr. Frank Cerra  
 Phone: 301-443-2536 x23 Fax: 301-443-9101  
 E-Mail: fxc@cdrh.fda.gov  
 URL: <http://www.fda.gov/cdrh>

Accreditation Valid Through: December 31, 1999

This facility has demonstrated compliance with the NVLAP Criteria for Calibration Laboratories under the field of Ionizing Radiation for the following:

*Procedures/Instruments*

*Radiation Types*

Calibration of Survey Instruments

X-ray Beam Codes M30, M50, L80, L100, and M100 over the Exposure Rate Range 2 mR/s to 100 mR/s, and the H50 Beam Code over the range 0.5 mR/h to 4 mR/s, with total uncertainty in the reference field value of  $\pm 5$  percent.

Calibration of Instruments for Diagnostic Level

X-ray Beam Codes M20, M30, M50, L80, L100, and M100 over the Exposure Rate Range 2 mR/s to 100 mR/s, with total uncertainty in the reference field value of  $\pm 3$  percent.

Calibration of Reference-Class Instruments

X-ray Beam Codes M20, M30, M50, L80, L100, and M100 over the Exposure Rate Range 2 mR/s to 100 mR/s, with total uncertainty in the reference field value of  $\pm 3$  percent.



NVLAP LAB CODE 105020-0

**PACIFIC NORTHWEST NATIONAL LABORATORY**

Battelle Boulevard  
P.O. Box 999  
Richland, WA 99352  
Contact: Mr. R. Kim Piper  
Phone: 509-376-6187 Fax: 509-376-1992  
E-Mail: kim.piper@pnl.gov  
URL: [http://www.pnl.gov/health/health\\_prot/cra\\_page.html](http://www.pnl.gov/health/health_prot/cra_page.html)

Accreditation Valid Through: December 31, 1999

This facility has demonstrated compliance with the NVLAP Criteria for Calibration Laboratories under the field of Ionizing Radiation for the following:

<i>Calibration Category</i>	<i>Radiation Type or Beam Code</i>	<i>Nominal Intensity Range<sup>note 3</sup></i>	<i>Uncertainty of Reference Field (<math>\pm</math>)<sup>note 1,2</sup></i>
<b>CALIBRATION OF SURVEY INSTRUMENTS</b>			
Gamma	<sup>241</sup> Am	0.125 R/h	5.2%
	<sup>137</sup> Cs	0.1 to 250 R/h	1.5%
	<sup>60</sup> Co	4 to 60,000 R/h	1.5%
X-ray	M30	3 to 500 R/h	1.5%
	M50	4 to 600 R/h	1.5%
	M60	3 to 450 R/h	1.5%
	M100	3 to 500 R/h	1.5%
	M150	4 to 550 R/h	1.5%
	M200	4 to 650 R/h	1.5%
	S60	1 to 175 R/h	1.5%
	S75	5 to 700 R/h	1.5%
	H40	0.02 to 4 R/h	1.5%
	H50	0.05 to 10 R/h	1.5%
	H100	0.02 to 3 R/h	1.5%
	H150	1 to 15 R/h	1.5%
	H200	0.9 to 9 R/h	1.5%
	H250	0.9 to 9 R/h	1.5%
	H300	0.6 to 3 R/h	1.5%
Beta	<sup>204</sup> Tl	0.9 rad/h	4.4%
	<sup>90</sup> Sr/ <sup>90</sup> Y	0.4 to 19 rad/h	4.0%

INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

Neutron	<sup>252</sup> Cf Bare	0.014 to 4.8 rem/h	7.6%
	<sup>252</sup> Cf Moderated	0.004 to 1.1 rem/h	21.4%

<i>Calibration Category</i>	<i>Radiation Type or Beam Code</i>	<i>Nominal Range<sup>note 4</sup></i>	<i>Uncertainty of Delivered Quantity (±)<sup>note 1,2</sup></i>
-----------------------------	------------------------------------	---------------------------------------	---

IRRADIATION OF PERSONNEL DOSIMETERS

Gamma	<sup>241</sup> Am	≥ 0.002 R	5.4%
	<sup>137</sup> Cs	≥ 0.020 R	3.6%
	<sup>60</sup> Co	≥ 0.025 R	3.6%
X-ray	M30	≥ 0.025 R	3.6%
	M50	≥ 0.035 R	3.6%
	M60	≥ 0.025 R	3.6%
	M100	≥ 0.025 R	3.6%
	M150	≥ 0.035 R	3.6%
	M200	≥ 0.035 R	3.6%
	S60	≥ 0.010 R	3.6%
	S75	≥ 0.040 R	3.6%
	H40	≥ 0.0002 R	3.6%
	H50	≥ 0.0005 R	3.6%
	H100	≥ 0.0002 R	3.6%
	H150	≥ 0.008 R	3.6%
	H200	≥ 0.008 R	3.6%
	H250	≥ 0.008 R	3.6%
	H300	≥ 0.005 R	3.6%
Neutron	<sup>204</sup> Tl	≥ 0.015 rad	11.8%
	<sup>90</sup> Sr/ <sup>90</sup> Y	≥ 0.007 rad	5.4%
Beta	<sup>252</sup> Cf Bare	≥ 0.001 rem	8.0%
	<sup>252</sup> Cf Moderated	≥ 0.002 rem	22.4%

---

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

**CALIBRATION OF REFERENCE-CLASS INSTRUMENTS**

<i>Calibration Category</i>	<i>Radiation Type or Beam Code</i>	<i>Nominal Intensity Range<sup>note 3</sup></i>	<i>Uncertainty of Reference Field (±)<sup>note 1,2</sup></i>
Gamma	<sup>137</sup> Cs	0.1 to 250 R/h	1.5 %
	<sup>60</sup> Co	4 to 60,000 R/h	1.5 %
X-ray	M30	3 to 500 R/h	1.5 %
	M50	4 to 600 R/h	1.5 %
	M60	3 to 450 R/h	1.5 %
	M100	3 to 500 R/h	1.5 %
	M150	4 to 550 R/h	1.5 %
	M200	4 to 650 R/h	1.5 %
	S60	1 to 175 R/h	1.5 %
	S75	5 to 700 R/h	1.5 %
	H40	0.02 to 4 R/h	1.5 %
	H50	0.05 to 10 R/h	1.5 %
	H100	0.02 to 3 R/h	1.5 %
	H150	1 to 15 R/h	1.5 %
	H200	0.9 to 9 R/h	1.5 %
	H250	0.9 to 9 R/h	1.5 %
	H300	0.6 to 3 R/h	1.5 %

- 
1. Values listed at the 95 % confidence level.
  2. Uncertainties are valid for nominal intensity range shown at right.
  3. For calibration outside of the nominal intensity range shown, uncertainties would be determined commensurate with the parameters of the reference field calibration.

NVLAP LAB CODE 105023-0

## INSTRON FORCE CALIBRATION LABORATORY

100 Royall Street

Canton, MA 02021

Contact: Dr. Anatoly Perlov

Phone: 781-575-5479 Fax: 781-575-5767

E-Mail: Anatoly\_Perlov@instron.com

URL: <http://www.instron.com>

Accreditation Valid Through: September 30, 1999

<i>NVLAP Code/ Parameters</i>	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>notes 1,2,3</sup></i>	<i>Remarks</i>
<b>MECHANICAL</b>			
20/M06			
Force			
	Applied Force in Pounds		
	0.1 to 130000	0.005%	Primary Standard
	130000 to 240000	0.005%	Secondary Standard

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$
  2. Uncertainty of the voltage ratio is  $<0.1$  microvolt per volt
  3. Uncertainty of the measured value is determined by the statistics of the test and the artifact tested but are typically better than  $\pm 0.05\%$  for class AA instruments,  $\pm 0.25\%$  for class A instruments and  $\pm 0.1\%$  for class A1 instruments.



NVLAP LAB CODE 200029-0

**GE INDUSTRIAL SYSTEMS, RENEWAL SERVICES - TEMS**

92 Otis Street  
Rome, NY 13441  
Contact: Mr. Alan L. Brust  
Phone: 315-334-7605 Fax: 315-334-7660  
E-Mail: alan.brust@indsys.ge.com

Accreditation Valid Through: December 31, 1999

**ELECTROMAGNETICS/DC-LOW FREQUENCY**

*NVLAP Code:* 20/E05

DC Resistance

<i>Value in ohms</i>	<i>Best Uncertainty in ppm (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1	1.0	
1	1.0	
10	1.0	
100	1.0	
1 k	1.5	
10 k	1.5	
100 k	4.0	
1 M	4.6	
10 M	6.2	
100 M	13.4	

*NVLAP Code:* 20/E06

DC Voltage

<i>Range in Volts</i>	<i>Best Uncertainty in ppm (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1	3	Zener Reference Diodes, Standard Cells, High Level MMs and Calibrators
1.0	1.5	Zener Reference Diodes, Standard Cells, High Level MMs and Calibrators
10.0	1.2	Zener Reference Diodes, Standard Cells, High Level MMs and Calibrators
100.0	1.5	Zener Reference Diodes, Standard Cells, High Level MMs and Calibrators
1000.0	2.0	Zener Reference Diodes, Standard Cells, High Level MMs and Calibrators

**THERMODYNAMICS**

*NVLAP Code:* 20/T05

Pressure

<i>Range</i>	<i>Uncertainty (<math>\pm</math>) of reading<sup>note 1</sup></i>	<i>Remarks</i>
0.2 to 1000 psia	36 ppm	Inert Gas
0.2 to 1000 psi	36 ppm	Inert Gas
15 to 10000 psi	0.02%	Inert Gas
15 to 15000 psi	0.02%	Fluid

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$

## WEBBER GAGE DIVISION / L.S. STARRETT CO.

24500 Detroit Road  
 Cleveland, OH 44145  
 Contact: Mr. David Friedel  
 Phone: 440-835-0001 Fax: 440-892-9555

Accreditation Valid Through: December 31, 1999

## DIMENSIONAL

NVLAP Code: 20/D03

Gage Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2,3</sup></i>	<i>Remarks</i>
Standard Size Gage Blocks		
thru 1.0 in	1.3 $\mu$ in	Master Grade Calibration
thru 25 mm	0.035 $\mu$ m	Master Grade Calibration
> 1.0 thru 4.0 in	(0.8 + 0.5L) $\mu$ in	Master Grade Calibration
> 25 thru 100mm	(0.02 + 0.5L) $\mu$ m	Master Grade Calibration
> 4.0 thru 20.0 in	(3.5 + 0.25L) $\mu$ in	Master Grade Calibration
> 100 thru 500.0 mm	(0.09 + 0.25L) $\mu$ m	Master Grade Calibration
thru 4.0 in	(1.4 + 0.6L) $\mu$ in <sup>note 4</sup>	Commercial Grade Calibration
thru 100 mm	(0.035 + 0.6L) $\mu$ m <sup>note 5</sup>	Commercial Grade Calibration
> 4.0 thru 20.0 in	(6.0 + 0.3L) $\mu$ in	Commercial Grade Calibration
> 100 thru 500 mm	(0.15 + 0.3L) $\mu$ m	Commercial Grade Calibration
Non Standard Size Gage Blocks		
to 1.0 in	2.2 $\mu$ in	Master Grade Calibration
to 25 mm	0.055 $\mu$ m	Master Grade Calibration
> 1.0 thru 4.6 in	(1.6 + 0.6L) $\mu$ in	Master Grade Calibration
> 25 thru 117mm	(0.04 + 0.6L) $\mu$ m	Master Grade Calibration
> 4.6 thru 20.0 in	(6.0 + 0.35L) $\mu$ in	Master Grade Calibration
> 117 thru 500 mm	(0.15 + 0.35L) $\mu$ m	Master Grade Calibration

1. Represents an expanded uncertainty using a coverage factor, k=2.
2. Approximate value. Actual value determined by the test statistics.
3. L is in inches or meters as appropriate.
4. Uncertainty not less than 2.0  $\mu$ in.
5. Uncertainty not less than 0.05  $\mu$ m.

NVLAP LAB CODE 200106-0

DENVER INSTRUMENT CO. WEIGHT LAB

6542 Fig Street  
Arvada, CO 80004-1042  
Contact: Mr. Darryl Sampson  
Phone: 303-431-7255 Fax: 303-423-4831

Accreditation Valid Through: December 31, 1999

MECHANICAL

NVLAP Code: 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
5 kg	3.8 mg	
4 kg	2.4 mg	
3 kg	2.4 mg	
2 kg	0.37 mg	
1 kg	0.33 mg	
500 g	0.080 mg	
400 g	0.075 mg	
300 g	0.071 mg	
200 g	0.056 mg	
160 g	0.055 mg	
150 g	0.055 mg	
100 g	0.029 mg	
50 g	0.0215 mg	
40 g	0.0216 mg	
30 g	0.0216 mg	
20 g	0.0208 mg	
10 g	0.0127 mg	
5 g	0.0111 mg	
3 g	0.0112 mg	
2 g	0.0108 mg	
1 g	0.0108 mg	
500 mg	0.0030 mg	
300 mg	0.0031 mg	
200 mg	0.0030 mg	
100 mg	0.0029 mg	



---

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
50 mg	0.0028 mg	
30 mg	0.0029 mg	
20 mg	0.0028 mg	
10 mg	0.0026 mg	
5 mg	0.0026 mg	
3 mg	0.0027 mg	
2 mg	0.0026 mg	
1 mg	0.0026 mg	

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

NVLAP LAB CODE 200108-0

ALLIEDSIGNAL FM&T METROLOGY

2000 East 95th Street

P.O. Box 419159

Kansas City, MO 64141-6159

Contact: Mr. Roger N. Burton

Phone: 816-997-5431 Fax: 816-997-3856

E-Mail: rburton@kcp.com

Accreditation Valid Through: December 31, 1999

**DIMENSIONAL**

NVLAP Code: 20/D01

Angle Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
up to 45 °	1.1 arc seconds	Comparison Method

Autocollimators

0 to 600 arc seconds	(0.3 arc seconds + 0.25% of angle)	Small Angle Generator
----------------------	------------------------------------	-----------------------

Index Table/Polygons

0 to 360 ° (in 10 ° or 30 ° increments)	0.6 arc seconds	3 Stack Method
---	-----------------	----------------

Optical Comparators

Length up to 12 in	(0.0002 + 30L ) in <sup>note 2</sup>	Magnifications Standard
Angle 0 to 360 °	0.1 °	Angle Blocks

NVLAP Code: 20/D03

Gage Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1, 4</sup></i>	<i>Remarks</i>
up to 4 in	(3.2 + .88L) $\mu$ m <sup>note 2</sup>	Comparison
>4 in to 20 in	(5.8 + .53L) $\mu$ m <sup>note 2</sup>	Comparison
up to 100 mm	(0.081 + .88L) $\mu$ m <sup>note 3</sup>	Comparison
>100 mm to 500 mm	(0.161 + .41L) $\mu$ m <sup>note 3</sup>	Comparison

NVLAP Code: 20/D04

Laser Frequency/Wavelength

<i>Laser Type</i>	<i>Best Uncertainty (<math>\pm</math>)</i>	<i>Remarks</i>
HeNe	0.05 ppm	Comparison

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

NVLAP Code: 20/D05

Length

Stage Micrometers (Chrome on Glass)

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 2 in	18 $\mu$ in	Laser Interferometer with Laser Edge Detection

Undirectional Step Gages

0 to 24 in	(20 $\mu$ in + 1.8L) <sup>note 2</sup>	CMM with Bi-swing Probe
------------	--	-------------------------

Inspection Masters

0 to 2 in	Length 18 $\mu$ in	Laser Interferometer with Laser Edge Detection
>2 to 12 in	Length 32 $\mu$ in	Laser Interferometer with Laser Edge Detection
	Perpendicularity 8 ppm	CMM with Video Probe

Magnification Scales

up to 24 in	0.0003 in	CMM with Video Probe
-------------	-----------	----------------------

Micrometer Masters

0 to 3 in	60 $\mu$ in	Single - Axis Measuring Machine
-----------	-------------	---------------------------------

Precision Micrometer Heads

0 to 2 in	35 $\mu$ in	Laser Interferometer
(0 to 50 mm)		

1-D Ball Plates

up to 48 in	(30 $\mu$ in + 2L) <sup>note 2</sup>	CMM Single - Axis Method
-------------	--------------------------------------	--------------------------

Squares

up to 24 in by 36 in	30 $\mu$ in	CMM, Self Closing Method
----------------------	-------------	--------------------------

Straight Edges

up to 48 in	5 $\mu$ in	CMM, Reversal Method
-------------	------------	----------------------

Dial Calipers

$\leq$ 12 in	0.002 in	Gage Blocks
--------------	----------	-------------

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## NVLAP Code: 20/D07

Thread Measuring Wires

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
All 29 ° and 60 ° Wires	8.0 $\mu$ in	Direct Measurement

## NVLAP Code: 20/D08

Optical Reference Planes

Optical Flats, Mirrors

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
0 to 12 in	1.2 $\mu$ in	3 Flat Method
0 to 12 in	2.0 $\mu$ in	Interferometer Method
0 to 12 in	4.0 $\mu$ in	Comparison to Master

## NVLAP Code: 20/D09

Roundness

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
up to 18 in Diameter	3 $\mu$ in	Roundness Machine

## NVLAP Code: 20/D11

Spherical Diameter

Master Balls

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
1/16 to 1.0 in ( 1 to 25 mm)	9 $\mu$ in	Comparison to Master

Calibration Spheres

to 1 in (25 mm)	11 $\mu$ in Diameter	Comparison to Master
	5 $\mu$ in Sphericity	Roundness

OD Micrometers

up to 3 in	(0.0002 + L/50000) in <sup>note 2</sup>	Micrometer Master
------------	---	-------------------

## NVLAP Code: 20/D12

Surface Plates

Range	Best Uncertainty ( $\pm$ ) <sup>note 1</sup>	Remarks
Up to 8 ft Diagonal	(30 $\mu$ in + 2 $\mu$ in/ft <sup>2</sup> )	Moody and Least Squares Method with Autocollimator



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## NVLAP Code: 20/D14

### Plug Gages

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 1 in	6.5 $\mu$ in	Comparison to Master

### Threaded Plug Gages - Pitch and Major Diameter per ANSI B1.2, ANSI B1.16M or ANSI B1.5

up to 10 in	P.D. 0.0001 in	3 - Wire P.D. Measurement
	M.D. 0.000035 in	

### Adj. - Thread Ring Gages - Functional Threads per ANSI/ASME B1.2 (UN or UNR Thread Form), ANSI/ASME B1.15 (UNJ Threads)

up to 10 in	P.D. 0.0002 in	Set to 'W' Thread Set Master
	M.D. 0.0001 in	

### Thread Set Plugs - Pitch and Major Diameter per ANSI B1.2, ANSI B1.16M or ANSI B1.5

up to 10 in	P.D. 0.000035 in	3 - Wire P.D. Measurement
	M.D. 0.000020 in	

## NVLAP Code: 20/D15

### 2-D Ball Plates

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
36 in x 36 in	(30 $\mu$ in + 2.5L) <sup>note 2</sup>	CMM Single - Axial Method

## NVLAP Code: 20/D16

### Coordinate Measuring Machines

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
To 120 x 120 x 120 in	Axial (10 + 1.5L) $\mu$ in	Parametrical Calibration
	Planar (35 + 8.5L) $\mu$ in	
To 24 in Volumetric	Axial (35 + 4L) $\mu$ in	Step Gage
Diagonals	Planar (45 + 4L) $\mu$ in	Step Gage
	Spatial (50 + 5L) $\mu$ in	Step Gage
To 56" Volumetric	Axial (60 + 3L) $\mu$ in	1-D Ball Plates
Diagonals	Spatial (70 + 3L) $\mu$ in	1-D Ball Plates
To 36" Volumetric	Axial (50 + 5L) $\mu$ in	2-D Ball Plates

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Diagonals	Planar (50 + 7L) $\mu$ in Spatial (50 + 9L) $\mu$ in	2-D Ball Plates

## MECHANICAL

*NVLAP Code:* 20/M06

Force

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in %<sup>note 1</sup></i>	<i>Remarks</i>
5 thru 2400 lbf	0.01	of Applied Force
> 2400 thru 100000 lbf	0.015	of Range
> 100000 thru 300000 lbf	0.035	of Range

*NVLAP Code:* 20/M08

Mass

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in mg<sup>note 1</sup></i>	<i>Method</i>
5 kg	19.70	Direct-Reading Weighing
3 kg	15.12	Direct-Reading Weighing
2 kg	12.08	Direct-Reading Weighing
1 kg	3.832	Direct-Reading Weighing
500 g	2.168	Direct-Reading Weighing
300 g	1.410	Direct-Reading Weighing
200 g	1.040	Direct-Reading Weighing
100 g	0.598	Direct-Reading Weighing
50 g	0.4480	Direct-Reading Weighing
30 g	0.4010	Direct-Reading Weighing
20 g	0.1528	Direct-Reading Weighing
10 g	0.1002	Direct-Reading Weighing
5 g	0.0780	Direct-Reading Weighing
3 g	0.0423	Direct-Reading Weighing
2 g	0.0266	Direct-Reading Weighing
1 g	0.0296	Direct-Reading Weighing
500 mg	0.0272	Direct-Reading Weighing
300 mg	0.0267	Direct-Reading Weighing
200 mg	0.0265	Direct-Reading Weighing
100 mg	0.0264	Direct-Reading Weighing
50 mg	0.0264	Direct-Reading Weighing

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in mg<sup>note 1</sup></i>	<i>Method</i>
30 mg	0.0264	Direct-Reading Weighing
20 mg	0.0045	Single Substitution Comparison to Reference Weights
10 mg	0.0035	Single Substitution Comparison to Reference Weights
5 mg	0.0034	Single Substitution Comparison to Reference Weights
3 mg	0.0036	Single Substitution Comparison to Reference Weights
2 mg	0.0034	Single Substitution Comparison to Reference Weights
1 mg	0.0034	Single Substitution Comparison to Reference Weights
10 lb	19.09	Direct-Reading Weighing
8 lb	15.90	Direct-Reading Weighing
5 lb	12.43	Direct-Reading Weighing
4 lb	10.80	Direct-Reading Weighing
3 lb	10.11	Direct-Reading Weighing
2 lb	3.723	Direct-Reading Weighing
1 lb	1.899	Direct-Reading Weighing
0.5 lb	1.150	Direct-Reading Weighing
0.3 lb	0.821	Direct-Reading Weighing
0.2 lb	0.575	Direct-Reading Weighing
0.1 lb	0.460	Direct-Reading Weighing
0.05 lb	0.417	Direct-Reading Weighing
0.03 lb	0.1277	Direct-Reading Weighing
0.02 lb	0.1064	Direct-Reading Weighing
0.01 lb	0.0998	Direct-Reading Weighing
0.005 lb	0.0518	Direct-Reading Weighing
0.003 lb	0.0458	Direct-Reading Weighing
0.002 lb	0.0290	Direct-Reading Weighing
0.001 lb	0.0356	Direct-Reading Weighing
10 oz	1.253	Direct-Reading Weighing
8 oz	1.150	Direct-Reading Weighing
6 oz	0.868	Direct-Reading Weighing
5 oz	0.865	Direct-Reading Weighing

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in mg<sup>note 1</sup></i>	<i>Method</i>
4 oz	0.815	Direct-Reading Weighing
3 oz	0.551	Direct-Reading Weighing
2 oz	0.4850	Direct-Reading Weighing
1 oz	0.4250	Direct-Reading Weighing
1/2 oz	0.1373	Direct-Reading Weighing
1/4 oz	0.0985	Direct-Reading Weighing
1/8 oz	0.0968	Direct-Reading Weighing
1/16 oz	0.0482	Direct-Reading Weighing
1/32 oz	0.0370	Direct-Reading Weighing
1/64 oz	0.0356	Direct-Reading Weighing

NVLAP Code: 20/M11  
Vibration/Acceleration

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>) in %<sup>note 1</sup></i>
0.3 g @ 10 thru 40 Hz	2.5
1 g @ 10 thru 100 Hz	2.5
2 g @ 10 thru 100 Hz	2.5
5 g @ 100 Hz	2.5
10 g @ 30 thru <100 Hz	2.5
10 g @ 100 thru 2000 Hz	1.8
10 g @ > 2000 thru 10000 Hz	2.5
Shock	
10 thru 10000 g @ 10 thru 10000 Hz	3.5

1. Represents an expanded uncertainty using a coverage factor, k=2.
2. L is in inches.
3. L is in meters
4. Best uncertainty is for steel blades.



NVLAP LAB CODE 200115-0

LOCKHEED MARTIN IDAHO TECH. CO., STANDARDS AND CALIBRATION LAB.

P.O. Box 1625  
Idaho Falls, ID 83415-4137  
Contact: Mr. Harry J. Moody  
Phone: 208-526-2656 Fax: 208-526-5462  
E-Mail: moodhj@inel.gov

Accreditation Valid Through: December 31, 1999

**DIMENSIONAL**

NVLAP Code: 20/D03

Gage Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>
0-4"	3.4 - 4.5 $\mu$ in
5-8"	4.5 - 5.9 $\mu$ in
10-12"	6.9 - 7.8 $\mu$ in
16"	9.8 $\mu$ in
20"	11.8 $\mu$ in

**ELECTROMAGNETICS -DC/LOW FREQUENCY**

NVLAP Code: 20/E05

Resistance

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>
0.1 ohm	0.35 ppm
1.0 ohm	0.3 ppm
10.0 ohm	0.35 ppm
100 ohm	0.5 ppm
1K ohm	0.6 ppm
10K ohm	0.5 ppm
100K ohm	1.0 ppm
1M ohm	5.0 ppm

NVLAP Code: 20/E06

DC Voltage

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>
10 volt Zener Reference	0.3 ppm

TIME AND FREQUENCY

NVLAP Code: 20/F01

Frequency Dissemination

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1 MHz, 1 MHz, 5 MHz, 10 MHz	$1 \times 10^{-11}/24$ hours	NIST FMS System

NVLAP Code: 20/F03

Oscillator Characterization (Electronic Counters)

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0.1 MHz, 1 MHz, 5 MHz, 10 MHz	$5 \times 10^{-10}/24$ hours	NIST FMS System

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

LIBERTY LABS, INC.  
1346 Yellowwood Road  
P.O. Box 230  
Kimballton, IA 51543  
Contact: Mr. Michael W. Howard  
Phone: 712-773-2199 Fax: 712-773-2299  
E-Mail: mhoward@netins.net

Accreditation Valid Through: December 31, 1999

### ELECTROMAGNETIC - RF/MICROWAVE

NVLAP Code: 20/R08

Microwave Antenna Parameters

<i>Range</i>	<i>Best Uncertainty in dB (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Early Designed Biconical Antennas (such as the EMCO 3104)		
30-60 MHz	1.7	
60-300 MHz	1.0	
New Designed Biconical Antennas (such as the EMCO 3110)		
30-90 MHz	1.2	
90-300 MHz	0.9	
Log-Periodic Antennas (such as the EMCO 3146)		
200-1000 MHz	1.0	Vertical
200-1000 MHz	1.1	Horizontal
200-1000 MHz	1.0 to 2.2	Fixed Heights
BiLog Antennas (such as the Chase CBL6111)		
20-1000 MHz	0.9	
Dipole Antennas (such as the EMCO 3121)		
30-1000 MHz	0.6	
DRWG Horn Antennas (such as the EMCO 3115)		
1-18 GHz	1.1	3 Ant. Method, OATS
1-18 GHz	1.2	Standard Field, OATS

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Range</i>	<i>Best Uncertainty in dB (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Horn Antennas (above 18 GHz)		
18-40 GHz	1.2	Standard Field, Anechoic
LISN's		
10 kHz to 100 MHz	0.4	Insertion Loss
10 kHz to 100 MHz	0.4	Impedance
Current Probes/Injection Probes		
5 Hz - 500 MHz	0.3	Insertion Loss
Absorbing Clamps		
30 to 1000 MHz	2.3	
CDN'S & 150-50 Ohm Adapters		
10 kHz to 230 MHz	0.4	Impedance & Insertion Loss
Isotropic Probes		
10 kHz-1 GHz	2.4	GTEM, Boonton MV
100 MHz - 18 GHz	2.4	GTEM, PWR Sensors
10 kHz - 1 GHz	1.3	Stripline
18-40 GHz	1.9	Standard Field
RF Pre-amps & Amps		
10 kHz to 18 GHz	0.4	GAIN Cal
Loop Antennas		
1kHz - 30 MHz	1.1	Vacuo Junction
20 Hz - 1 kHz	1.1	Series Resistor
Rod Antennas		
100 Hz to 30 MHz	0.5	Using ECSM (Insertion Loss with Mfr's Fixture)
100 Hz to 10 kHz	1.0	Using NIST 1347
10 kHz to 30 MHz	0.9	Using NIST 1347



---

**INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued**

---

<i>Range</i>	<i>Best Uncertainty in dB (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
RF Insertion Loss		
10 kHz to 18 GHz	0.4	
ESD Simulators/Surge Generators		
0 to 15 kV ESD Gun	0.3 dB	
0 to 6 kV Surge	0.3 dB	

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

NVLAP LAB CODE 200154-0

COMPAQ CORPORATE METROLOGY  
20555 SH 249 (MS 070110)  
P.O. Box 692000 (MS 070110)  
Houston, TX 77269-2000  
Contact: Mr. David H. Shumway  
Phone: 281-514-5787 Fax: 281-518-7275

Accreditation Valid Through: March 31, 1999

**DC/LOW FREQUENCY**

*NVLAP Code: 20/E17*

Pulse Waveform

<i>Parameter</i>	<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Risetime (Generate)	< 20 ps	14.43 %	
Risetime (Measure)	< 1 ns to 100 ps	5.78 %	Single Shot
Impulse Spectral Amplitude			
Impulse Noise (Source)	10 kHz to 150 kHz	14.21 %	Band A
Impulse Noise (Source)	150 kHz to 30 MHz	14.21 %	Band B
Impulse Noise (Source)	30 MHz to 1 GHz	23.43 %	Band C & D
HV (Measure)	1 kV to 60 kV	0.13 %	with HVD
	1 kV to 40 kV	2.33 %	with HV Probe

**TIME AND FREQUENCY**

*NVLAP Code: 20/F03*

Oscillator Characterization

<i>Parameter</i>	<i>Nominal</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
Frequency/Period			
Frequency (Source)	10 MHz	$2.82 \times 10^{-9}$	
Frequency (Measure)	10 MHz, 1 Vrms	$1.34 \times 10^{-7}$	
Frequency (Comparison)	10 MHz, 1 Vrms	$1.34 \times 10^{-9}$	1 second
Duty Cycle/Duration			
@ 1 s Time Interval	10 MHz, 1 Vrms	0.61 %	
@ 100 mV p-p	2 GHz	6.24 %	

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

## Jitter

@200 mV p-p	2 GHz	1.38%
@ 1 Vrms	10 MHz	1.71%

## Drift

@ 100 s Time Interval	10 MHz	$5.7 \times 10^{-9}$
-----------------------	--------	----------------------

## Spectral Purity

### Single Sideband Phase Noise (SSB)

@ +30 to -20 dBm	10 MHz to 1300 MHz	15.10%	with receiver
@ 0 $\geq$ -22 dBm	1 GHz	15.10%	with spectrum analyzer

## Harmonic Distortion

@ 0 dBm	0.2 Hz to 100 Hz	5.44%
@ 0 dBm	1 GHz	15.10%
@ -22 dBm	10 Hz to 100 kHz	29.91%

## 2nd Order Harmonic/Intermodulation Distortion

@ 0 dBm	0.24 Hz to 100 Hz	5.44%
@ 0 dBm	1 GHz	15.10%

## AM Modulation

AM (Source)	50 Hz to 50 kHz Rates	0.18%
AM (Measure)	50 Hz to 50 kHz Rates	1.41%
AM (Source)	33.33% of depth	0.12%

## FM Modulation

FM (Source)	DC to 100 kHz Rates	0.16%
FM (Measure)	50 Hz to 100 kHz Rates	1.72%
FM (Source)	34 kHz Peak Deviation	0.12%

## PM Modulation

PM (Measure)	150 kHz to 1300 MHz	4.77%
--------------	---------------------	-------

Spurious Content

@ 0 dBm	0.2 Hz to 100 Hz	5.44%
@ 0 dBm	1 GHz	15.10%

RF/MICROWAVE

NVLAP Code: 20/R13

Attenuators

Relative RF Power (Attenuation-Measure)

<i>Frequency</i>	<i>Nominal</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks</i>
100 kHz to 2.6 GHz	0 dB to -20 dB	M + 0.02 dB	
100 kHz to 2.6 GHz	-20 dB to -40 dB	M + 0.03 dB	
100 kHz to 2.6 GHz	-40 dB to -60 dB	M + 0.04 dB	
100 kHz to 2.6 GHz	-60 dB to -80 dB	M + 0.05 dB	
100 kHz to 2.6 GHz	-80 dB to -100 dB	M + 0.06 dB	
100 kHz to 2.6 GHz	-100 dB to -110 dB	M + 0.12 dB	
100 kHz to 2.6 GHz	-110 dB to -120 dB	M + 0.17 dB	
2.5 GHz to 26.5 GHz	-0 dB to -10 dB	M + 0.22 dB	
2.5 GHz to 26.5 GHz	-10 dB to -20 dB	M + 0.09 dB	
2.5 GHz to 26.5 GHz	-20 dB to -30 dB	M + 0.10 dB	
2.5 GHz to 26.5 GHz	-30 dB to -40 dB	M + 0.13 dB	
2.5 GHz to 26.5 GHz	-40 dB to -50 dB	M + 0.14 dB	
2.5 GHz to 26.5 GHz	-50 dB to -60 dB	M + 0.16 dB	
2.5 GHz to 26.5 GHz	-60 dB to -70 dB	M + 0.18 dB	
2.5 GHz to 26.5 GHz	-70 dB to -80 dB	M + 0.20 dB	
2.5 GHz to 26.5 GHz	-80 dB to -90 dB	M + 0.31 dB	
2.5 GHz to 26.5 GHz	-90 dB to -100 dB	M + 0.32 dB	
2.5 GHz to 26.5 GHz	-100 dB to -110 dB	M + 0.34 dB	
2.5 GHz to 26.5 GHz	-110 dB to -120 dB	M + 0.36 dB	
30 MHz	0 dB to 50 dB	M + 0.07 dB	

Attenuation High Power (Generate)

DC to 2 GHz	20 dB	M + 0.44 dB	with Narda 766-20 ATTN.
DC to 2 GHz	20 dB	M + 0.80 dB	with Narda 769-20 ATTN.

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Frequency</i>	<i>Nominal</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks</i>
Attenuation High Voltage (Generate)			
DC to 1 GHz	20 dB	M + 0.30 dB	
DC to 2 GHz	20 dB	M + 0.64 dB	
Impedance (Source)			
DC to 18 GHz	50 ohms	1.84 %	
DC to 6 GHz	50 ohms	0.61 %	
DC to 3 GHz	75 ohms	0.76 %	
Impedance (Measure)			
300 kHz to 1 MHz	50 ohms	12.71 %	
1 MHz to 100 MHz	50 ohms	8.19 %	
100 MHz to 150 MHz	50 ohms	12.71 %	
100 Hz, 1 kHz, 10 kHz, 100 kHz	50 ohms	1.97 %	with LCR Meter
DC to 6 GHz	50 ohms	11.79 %	(TDR)
Electrical Length (TDR Measure)			
1 GHz	30 cm	7.57 %	
Return Loss			
<i>Frequency</i>	<i>Directivity</i>	<i>Test Port Match</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,3</sup></i>
0.01 GHz to 8.4 GHz	$\geq 36$ dB	$\geq 23$ dB	$0.16 \pm 0.071 p^2$
8.4 GHz to 12.4 GHz	$\geq 36$ dB	$\geq 19$ dB	$0.16 \pm 0.112 p^2$
12.4 GHz to 18 GHz	$\geq 34$ dB	$\geq 15$ dB	$0.02 \pm 0.178 p^2$
Insertion Loss			
<i>Frequency</i>	<i>Nominal</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
300 kHz to 1 MHz	> 60 dB Dynamic Range	13.37 %	
1 MHz to 100 MHz	> 60 dB Dynamic Range	9.18 %	



# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Frequency</i>	<i>Nominal</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
100 MHz to 300 MHz	> 60 dB Dynamic Range	13.37%	
300 MHz to 1.5 GHz	> 60 dB Dynamic Range	18.64%	
1.5 GHz to 2 GHz	> 60 dB Dynamic Range	33.93%	
Phase (Measure)			
300 kHz to 1 MHz	0 to 360 degrees	2.57%	
1 MHz to 100 MHz	0 to 360 degrees	0.66%	
100 MHz to 300 MHz	0 to 360 degrees	2.57%	
300 MHz to 1.5 GHz	0 to 360 degrees	3.85%	
1.5 GHz to 2 GHz	0 to 360 degrees	7.70%	
0.01 Hz to 160 MHz	-180 to 360 degrees	2.96%	with Series Counters

## NVLAP Code: 20/R17

### Power Meters

#### RF Power Absolute

<i>Frequency</i>	<i>Nominal</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks</i>
100 kHz to 18 GHz	+20 dBm to -30 dBm	M + 0.55 dB	
100 kHz to 18 GHz	+30 dBm to -20 dBm	M + 0.25 dB	
50 MHz to 26.5 Hz	+30 dBm to -20 dBm	M + 0.57 dB	
10 kHz to 100 MHz	0.5 mV	M + 0.20 dB	
100 MHz to 300 MHz	0.5 mV	M + 0.24 dB	
300 MHz to 1 GHz	0.5 mV	M + 0.28 dB	
1 GHz to 1.2 GHz	0.5 mV	M + 0.43 dB	
10 kHz to 100 MHz	1.0 mV	M + 0.14 dB	
100 MHz to 1 GHz	1.0 mV	M + 0.20 dB	
300 MHz to 1 GHz	1.0 mV	M + 0.24 dB	
1 GHz to 1.2 GHz	1.0 mV	M + 0.42 dB	
10 kHz to 100 MHz	1.0 mV	M + 0.11 dB	
100 MHz to 300 MHz	10 mV to 1000 mV	M + 0.11 dB	
300 MHz to 1 GHz	10 mV to 1000 mV	M + 0.22 dB	
1 GHz to 1.2 GHz	10 mV to 1000 mV	M + 0.41 dB	

# INDEX E. LISTING OF CALIBRATION LABORATORIES BY NVLAP LAB CODE - continued

<i>Frequency</i>	<i>Nominal</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1,2</sup></i>	<i>Remarks</i>
Tuned RF Power - Absolute			
100 kHz to 2.6 GHz	0 dBm to -100 dBm	M + 0.28 dB	
100 kHz to 2.6 GHz	-100 dBm to -110 dBm	M + 0.30 dB	
100 kHz to 2.6 GHz	-110 dBm to -120 dBm	M + 0.32 dB	
2.5 GHz to 26.5 GHz	0 dBm to -10 dBm	M + 0.64 dB	
2.5 GHz to 26.5 GHz	-10 dBm to -40 dBm	M + 0.61 dB	
2.5 GHz to 26.5 GHz	-40 dBm to -60 dBm	M + 0.62 dB	
2.5 GHz to 26.5 GHz	-60 dBm to -80 dBm	M + 0.63 dB	
2.5 GHz to 26.5 GHz	-80 dBm to -90 dBm	M + 0.67 dB	
2.5 GHz to 26.5 GHz	-90 dBm to -110 dBm	M + 0.68 dB	
2.5 GHz to 26.5 GHz	-110 dBm to 120 dBm	M + 0.69 dB	

- 
1. Represents an expanded uncertainty using a coverage factor, k=2.
  2. M = Mismatch uncertainty
  3. Derived Return Loss uncertainty statements in 'p' (Reflective Coefficient).

NVLAP LAB CODE 200211-0

## ILX LIGHTWAVE CORPORATION, OPTICAL CALIBRATION

31950 E. Frontage Road

P.O. Box 6310

Bozeman, MT 59715

Contact: Mr. Sergey Siny

Phone: 406-586-1244 x118 Fax: 406-586-9405

E-Mail: ssiny@ilxlightwave.com

Accreditation Valid Through: December 31, 1999

## OPTICAL RADIATION

NVLAP Code: 20/O01

Laser Power Energy

<i>Range</i>	<i>Wavelength</i>	<i>Best Uncertainty (<math>\pm</math>) in %<sup>notes 1 &amp; 2</sup></i>
Optical Fiber Power Meters in A/W		
$10^{-11}$ A to $10^{-3}$ A, 1 pW to 2 mW	800 to 1700 nm	2.31 to 3.15

NVLAP Code: 20/O03

Radiometric

Photodiode Spectral Response in A/W

$10^{-11}$ A to $10^{-3}$ A, 1 pW to 2 mW	400 to 1700 nm	1.42 to 3.15
---	----------------	--------------

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .
  2. Uncertainty varies with wavelength.

NVLAP LAB CODE 200235-0

## STERIS-ISOMEDIX SERVICES

11 Apollo Drive

Whippany, NJ 07981

Contact: Mr. Glenn W. Calvert

Phone: 973-887-4700 Fax: 973-887-1476

E-Mail: isomedix@nac.net

Accreditation Valid Through: December 31, 1999

## IONIZING RADIATION

NVLAP Code: 20/I02

High Dose Dosimetry

<i>Source</i>	<i>Range</i>	<i>Best Uncertainty</i> ( $\pm$ ) <sup>note 1</sup>
<sup>60</sup> Co Gamma Rays	100 grays or more at a rate of approximately 1 to 20 kgy/hour	2.5%

- 
1. Represents an expanded uncertainty using a coverage factor,  $k=2$ .

NVLAP LAB CODE 200262-0

**METROPLEX METROLOGY LAB, INC.**

2309 E. Loop 820 North  
Fort Worth, TX 76118-7103  
Contact: Mr. James L. Johnson  
Phone: 817-589-8300 Fax: 817-589-8311

Accreditation Valid Through: March 31, 1999

**DIMENSIONAL**

*NVLAP Code:* 20/D03

Gage Blocks

<i>Range</i>	<i>Best Uncertainty (<math>\pm</math>)<sup>note 1</sup></i>	<i>Remarks</i>
0 to 1 in	2.5 $\mu$ in	
> 1 in to 4 in	2.5 $\mu$ in + 0.5 $\mu$ in/in	

*NVLAP Code:* 20/D14

Threaded Plug and Ring Gages

Plug Gages	0 to 6 in	70.3 $\mu$ in	Major Diameter
Ring Gages	0 to 6 in	196.1 $\mu$ in	Major Diameter

- 
1. Represents an expanded uncertainty using a coverage factor, k=2.



# *NIST* Technical Publications

## *Periodical*

---

**Journal of Research of the National Institute of Standards and Technology**—Reports NIST research and development in those disciplines of the physical and engineering sciences in which the Institute is active. These include physics, chemistry, engineering, mathematics, and computer sciences. Papers cover a broad range of subjects, with major emphasis on measurement methodology and the basic technology underlying standardization. Also included from time to time are survey articles on topics closely related to the Institute's technical and scientific programs. Issued six times a year.

## *Nonperiodicals*

---

**Monographs**—Major contributions to the technical literature on various subjects related to the Institute'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 NIST, NIST annual reports, and other special publications appropriate to this grouping such as wall charts, pocket cards, and bibliographies.

**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 NIST under the authority of the National Standard Data Act (Public Law 90-396). NOTE: The Journal of Physical and Chemical Reference Data (JPCRD) is published bimonthly for NIST by the American Chemical Society (ACS) and the American Institute of Physics (AIP). Subscriptions, reprints, and supplements are available from ACS, 1155 Sixteenth St., NW, Washington, DC 20056.

**Building Science Series**—Disseminates technical information developed at the Institute 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 NIST 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. NIST administers this program in support of the efforts of private-sector standardizing organizations.

*Order the following NIST publications—FIPS and NISTIRs—from the National Technical Information Service, 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 NIST 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).

**NIST Interagency or Internal Reports (NISTIR)**—The series includes interim or final reports on work performed by NIST for outside sponsors (both government and nongovernment). In general, initial distribution is handled by the sponsor; public distribution is handled by sales through the National Technical Information Service, Springfield, VA 22161, in hard copy, electronic media, or microfiche form. NISTIR's may also report results of NIST projects of transitory or limited interest, including those that will be published subsequently in more comprehensive form.

U.S. DEPARTMENT OF COMMERCE  
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY  
NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP)  
100 BUREAU DRIVE, STOP 2140  
GAITHERSBURG, MD 20899-2140

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE \$300

ADDRESS SERVICE REQUESTED

SPECIAL STANDARD MAIL  
POSTAGE & FEES PAID  
NIST  
PERMIT NO. G195