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1985-86 NVLAP Directory of Accredited Laboratories

Harvey W. Berger, Editor

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U.S. DEPARTMENT OF COMMERCE National Bureau of Standards

Office of Product Standards Policy Gaithersburg, MD 20899

January 1986



U.S. DEPARTMENT OF COMMERCE

NATIONAL BUREAU OF STANDARDS

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1985-86 NVLAP DIRECTOR OF ACCREDITED LABORATORIES

Harvey W. Berger; Editor

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U.S. DEPARTMENT OF COMMERCE, Malcolm Baldrige, Secretary NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director 10 Pr 8

PREFACE

The National Bureau of Standards' National Voluntary Laboratory Accreditation Program (NVLAP) improves the competence of testing laboratories and the reliability of laboratory measurements through transfer of measurement technology. Critical elements of test methods are identified along with precision and accuracies expected from the methods when measurements are made. Proficiency testing and interlaboratory comparisons contribute to improved test methods and laboratory performance.

This directory provides information on the activities of the National Bureau of Standards in administering NVLAP during calendar year 1985. Voluntary participation by the Nation's laboratories is increasing and several new accreditation efforts requested by government agencies and private organizations have been established.

The accredited laboratories have been found competent to perform the specific test methods shown in the Directory of Accredited Laboratories. They have the skilled people, necessary facilities and equipment, and documentation and quality assurance systems to produce reliable test data. We recommend that consideration be given to the use of these laboratories whenever their accredited testing capabilities satisfy testing needs.

NVLAP has also provided the basis for acceptance by other countries of test data produced by laboratories in the United States through bilateral agreements. We shall continue to work toward liberalizing the means to satisfying trade requirements whenever possible.

Director Office of Product Standards Policy

NVLAP

DIRECTORY OF ACCREDITED LABORATORIES

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REPORT OF PROGRAM ACTIVITIES

Introduction

The National Voluntary Laboratory Accreditation Program (NVLAP), administered by the National Bureau of Standards (NBS), was established in 1976 to accredit laboratories for specific tests or types of tests in certain product or service areas where a need for accreditation is determined. As of December 71, 1985 NVLAP has accredited 145 laboratories in eight laboratory accreditation programs (LAPs).

Accreditation criteria, which are published as part of the NVLAP Procedures (Title 15, Part 7, of the Code of Federal Regulations), are used for evaluating applicant laboratories. (See page ...) NBS uses periodic on-site assessments, proficiency testing programs, and questionnaires as evaluation tools.

This Directory is the ninth in a series which describe NVLAP program activities and present the list of accredited laboratories and the test methods for which they are accredited.

Established Laboratory Accreditation Programs

Laboratories continue to apply for initial accreditation and reaccreditation in the Thermal Insulation, Concrete, Carpet, Stove, Acoustics, Dosimetry, Commercial Products, and Seals and Sealants LAPs. In addition, a new LAP has been established for laboratories that test electromagnetic compatibility and telecommunications equipment.

The current participation and accreditable test methods for all established LAPs are given in following sections of this Directory.

Insulation LAP

The LAP for thermal insulation materials testing has 62 test methods for which a laboratory can seek accreditation. As of December 31, 1985, 37 laboratories were accredited to perform selected test methods.

A paper entitled "NVLAP and the Thermal Insulation Program," by J. Horlick and H. Berger, was published in the Journal of Thermal Insulation, Volume 8, April 1985. The paper describes the proficiency testing program for the Insulation LAP in detail. The Insulation LAP Handbook was substantively revised and issued as NBSIR 85-3184.

Concrete LAP

The LAP for freshly mixed concrete testing has seven test methods for which a laboratory can seek accreditation. As of December 31, 1985, 27 laboratories were accredited to perform selected test methods. The Concrete LAP Handbook was substantively revised and issued as NBSIR 85-3140.

Carpet LAP

The LAP for carpet testing has 12 test methods for which a laboratory can seek accreditation. As of December 31, 1985, 21 laboratories were accredited to perform selected test methods. The Department of Housing and Urban Development uses test results produced by these laboratories as part of its carpet certification program.

NBS has contracted with Southern Technical University to carry out the next two rounds of proficiency testing for the Carpet LAP. Under the direction of Walter Thomas, a NVLAP Technical Expert who has performed on-site assessments, the University will perform all functions necessary to implement proficiency testing for laboratories enrolled in this LAP. NVLAP staff will maintain technical and administrative oversight of the contract.

The Carpet LAP Handbook was substantively revised and issued as NBSIR 85-3198.

Stove LAP

The LAP for solid fuel room heaters, with the addition of three ASTM emissions related tests, now has 39 methods for which a laboratory can seek accreditation. The other methods are sections of UL and CSA standards. Various combinations of methods are available for accreditation to meet the needs of individual laboratories. As of December 31, 1985, 11 laboratories were accredited to perform selected test methods.

NVLAP staff are cooperating with State and private agencies to meet regulatory needs while minimizing proliferation of differing requirements for accreditation and certification.

The Stove LAP Handbook was substantively revised and issued as NBSIR 85-3185.

Acoustics LAP

The LAP for acoustical testing services has 49 test methods for which a laboratory can seek accreditation. As of December 31, 1985, eight laboratories were accredited to perform selected test methods.

NVLAP staff, Acoustics LAP technical experts, and technical representatives of several accredited laboratories met January 7-8 to review and revise the proficiency testing program for this LAP. Comments on proposed changes will be requested of appropriate ASTM committees and all participating laboratories. Changes are intended to make the proficiency testing program more appropriate and effective in assessing laboratory competence.

The Acoustics LAP Handbook was substantively revised and issued as NBSIR 85-3199.

Dosimetry LAP

Processors of personal radiation dosimeters may be accredited in any or all eight testing categories in accordance with ANSI N13.11. Successful completion of proficiency testing in each category requested is mandatory to gain accreditation. As of December 31, 1985, 35 processors were accredited.

The Dosimetry LAP Handbook was substantively revised and issued as NBSIR 85-3170.

Commercial Products LAP

The LAP for commercial products has a total of 188 test methods for which a laboratory can seek accreditation: 127 for paint and related materials, 55 for paper and related products, and 6 for mattresses. As of December 31, 1985, for laboratories were accredited: three for paint test methods and one for paper test methods. Accredited laboratories are required to participate in applicable proficiency testing programs offered by Collaborative Testing Services, Inc. The Commercial Products LAP Handbook was substantively revised and issued as NBSIR 85-3171. Film LAP

The LAP for photographic film was officially established on August 31, 1984. As of December 31, 1985n no requests for accreditation have been received.

Seals and Sealants LAP

The LAP for seals and sealants has 30 test methods for which a laboratory can seek accreditation. As of December 31, 1985, one laboratory was accredited to perform selected test methods.

Electromagnetics LAP

The LAP for laboratories that test electromagnetic compatibility and telecommunications equipment was established in September 1985. The LAP offers four FCC test methods for accreditation. As of December 31, 1985, four laboratories have submitted applications for accreditation.

Laboratory Participation Summary

The following table summarizes accreditation actions that have occured during calendar year 1985. Since some laboratories are accredited in more than one LAP, the number of accredited laboratories listed by LAP (see Index B) is greater than the number of laboratories in the system (see Index A).

	TIM	CON	CAR	ST0	ACO	CPL	DOS	SEA	TOTAL	
New Laboratory Accreditations Voluntary	3	1		1	1	3	16	1	+26	
Terminations	3	4	3		1				-11	
Suspensions		1				1			- 2	
Total Accredited Labs by LAP	37	28	21	11	8	4	35	1	145	
Change in Total Ac	credi	ted L	abs							
December 1984	+1	-3	-3	+1	0	+2	+16	+1	+15	

Publications (selected)

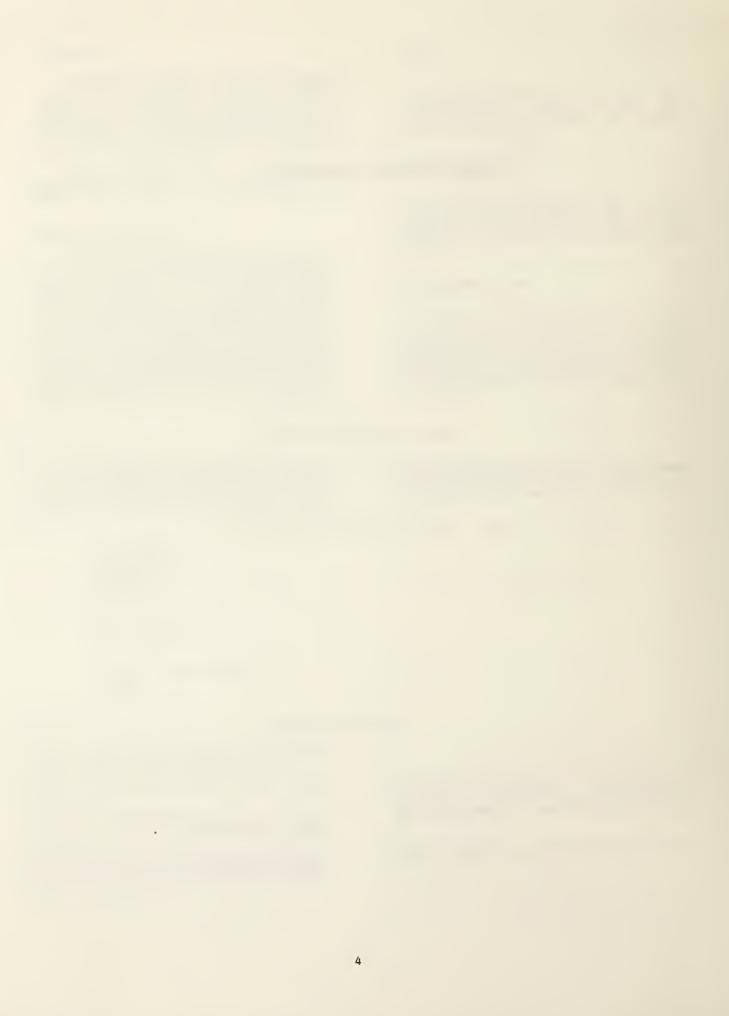
NVLAP Directory of Accredited Laboratories; Midyear Update; NBSIR 85-3204, July 1985

NVLAP Assessment and Evaluation Manual, NBSIR 85-3137

"Laboratory Accreditation and the Procurement Community," May 1985 ASTM Standardization News

Lab Bulletin No. 16: Addition of "Test Method for Emission and Heating Performance" to the Solid Fuel Room Heaters Laboratory Accreditation Program (Stove LAP) "Laboratory Accreditation: A Useful Procurement Tool" in the Proceedings of the Federal Acquisition Research Symposium, November 20-22, 1985, Richmond, VA

NVLAP Tech Brief: NVLAP Proficiency Testing Program, Carpet LAP, Round 9 INDEXES OF ACCREDITED LABORATORIES



Index A. Laboratory Name and NYLAP Lab Code Number A & H/FLOOD ENGINEERING 0183 TI 0155 AGUIRRE ENGINEERS 0139 AMERICAN CARPET LABS 0146 AMERICAN TESTING LABS 0218 APACHE BUILDING PRODUCTS 0536 ARIZONA NUCLEAR POWER PROJECT 0228 ARMSTRONG WORLD INDUSTRIES 0225 ARNOLD GREENE TESTING LABORATORY CO GA PA NJ AZ PA MA 0154 ARUNDEL 0177 ATLANTIC TESTING LABS 0501 BALTIMORE GAS & ELECTRIC 0260 BASF STYROPOR TECHNICAL CENTER 0156 BIGELOW SANFORD 0178 BIGELOW SANFORD MD NY MD NJ 0260 BASE STRUPOR TECHNICAL CENTER 0156 BIGELOW SANFORD 0178 BIGELOW SANFORD 0102 BUTLER MANUFACTURING 0251 CALIFORNIA DEPT. OF CONSUMER AFFAIRS 0203 CALMAT CO/CONROCK DIV TESTING LAB GA SC MO CA CA 0258 CELOTEX TRACY PLANT CA PA 0101 CERTAINTEED 0108 CERTIFIED TESTING LABS 0160 CHISHOLM TRAIL TESTING & ENGINEERING GA TX 0120 COMMERCIAL TESTING 0120 COMMERCIAL TESTING 0215 CONSTRUCTION MATERIALS GA CO 0137 CONSTRUCTION MATERIALS 0137 CONSTRUCTION TECHNOLOGY LABORATORY 0522 CONSUMERS POWER 0136 CONTRACTOR'S SUPPLY 0190 CORONET CARPET IL MI WV 0120 CORONET CARPET 0190 CORONET CARPET 0243 CUSTOM COATING 0252 D/L LABORATORIES 0529 DETROIT EDISON 0103 DOW CHEMICAL GA GA NY MI OH 0175 DOW CHEMICAL, NORTH HAVEN LABS CT 0505 DUKE POWER 0521 DUQUESNE LI NC PA DUQUESNE LIGHT 0113 DYNATECH R & D MA 0149 E & B CARPET MILLS 0149 E & B CARPET MILLS 0515 EBERLINE SERVICES /THERMO ELECTRON 0507 EPA NUCLEAR RADIATION ASSESSMENT DIV 0115 FACTORY MUTUAL 0257 GAI CONSULTANTS 0163 GALAXY TESTING LAB 0195 GARCO TESTING LABORATORY 0141 GENSTAR STONE PRODUCTS 0162 GA NH NV MA PA GA GARCO TESTING LABORATORY UT GENSTAR STONE PRODUCTS MD 0141 GENSTAR STONE PRODUCTS 0142 GEOSCIENCE 0229 GOLD BOND BUILDING PRODUCTS 0510 GPU NUCLEAR CORP. 0208 GULF COAST TESTING LABORATORY 0534 GULF STATES UTILITIES-RIVER BEND 0131 H.C. NUTTING 0151 HARDWOOD PLYWOOD MANUFACTURERS ASSOC 0517 HARRIS ENERGY & ENVIRONMENTAL CENTER 0267 HOLLYTEY CODDET MUL CA NY PA TX IA 0151HARDWOOD PLYWOOD MANUFACTURERS ASSOC0517HARRIS ENERGY & ENVIRONMENTAL CENTER0247HOLLYTEX CARPET MILL0239HOUGH ACOUSTICAL LABORATORY0519HOUSTON LIGHTING & POWER0166INDEPENDENT TEXTILE TESTING0210INSTA-FOAM PRODUCTS0111JIM WALTER RESEARCH0526KANSAS GAS & ELECTRIC0143KELSD INDUSTRIES0248KNAUF FIBER GLASS RESEARCH0530LOUISIANA POWER & LIGHT CO0259MACMILLAN BLOEDEL0503MALLINCKRODT DIAGNOSTICS0124NAHB RESEARCH FOLNDATTORY OH VA NC OK WI TX GA IL FL KS TX IN LA AI MO 00 NAMB RESEARCH FOUNDATION NAVAL MEDICAL COMMAND NAVAL RESEARCH LABORATORY 0104 MD 0504 MD NAVAL RESEARCH LABORATORY NEW YORK POWER AUTHORITY-INDIAN POINT NEW YORK POWER AUTHORITY-LYCOMING 0509 DC 0508 NY 0511 NY 0244 OR NORTHWEST TESTING LABS

0505	OVALIA DUDI TO DOWED DISTORDI
0525	OMAHA PUBLIC POWER DISTRICT
0240	OMNI ENVIRONMENTAL SERVICES
0109	OWENS CORNING FIBERGLAS
0124	OWENS CORNING FIBERGLAS
0125	OWENS CORNING FIBERGLAS
	UWENS CORNING FIDERGLAS
0126	OWENS CORNING FIBERGLAS
0127	OWENS CORNING FIBERGLAS
0128	OWENS CORNING FIBERGLAS
0129	OWENS CORNING FIBERGLAS
0130	OWENS CORNING FIBERGLAS
0537	PACIFIC GAS & ELECTRIC
0235	PACIFIC INSPECTION & RESEARCH
	PFS CORPORATION
0223	
0201	PITTSBURGH TESTING LABORATORY
0237	PITTSBURGH TESTING LABORATORY
0531	PUBLIC SERVICE ELECTRIC & GAS
0518	R. S. LANDAUER JR.
0245	R.F. GEISSER AND ASSOC
0206	R.W. SIDLEY
0261	
	RADCO
0512	RADIATION DETECTION
0232	RITCHIE LABORATORIES
0227	RIVERBANK ACQUSTICAL LAB OF IIT
0514	ROCHESTER GAS & ELECTRIC
0221	SALEM CARPET LABORATORY
0193	SHAW INDUSTRIES
0264	SHELTON RESEARCH
0532	SIEMENS GAMMASONICS
0192	SMITH-EMERY
0506	SOUTHERN CALIFORNIA EDISON
0114	SOUTHWEST RESEARCH INSTITUTE
0121	
	SPARRELL ENGINEERING RESEARCH
0246	STOVE TESTING
0220	STRATTON LABORATORIES
0191	STS CONSULTANTS
0233	STS CONSULTANTS
0533	TELEDYNE ISOTOPES
0516	TENNESSEE VALLEY AUTHORITY
0196	TEXAS TESTING LABORATORY
0528	TEXAS UTILITIES GENERATING
0188	TWIN CITY TESTING AND ENGINEERING
0216	U.S. GYPSUM COMPANY
0116	UNDERWRITERS LABORATORIES
0117	UNDERWRITERS LABORATORIES
0255	UNDERWRITERS LABORATORIES
0502	UNION ELECTRIC
0105	UNITED STATES TESTING
0106	UNITED STATES TESTING
0106	UNITED STATES TESTING
0107	UNITED STATES TESTING
0266	UNITED STATES TESTING
0241	UNITED STATES TESTING WESTERN STATES
0539	US ARMY IONIZING RADIATION DOS CTR
0230	VIRGINIA CONCRETE LABORATORY
0520	VIRGINIA ELECTRIC & POWER, MINERAL
0523	VIRGINIA ELECTRIC & POWER, MINERAL VIRGINIA ELECTRIC & POWER, SURRY
	VIRGINIA ELECTRIC & FUNER, SURRI
0250	W. R. GRACE
0176	W. R. GRACE
0133	WALT KEELER
~~~~	
0249	WARNOCK HERSEY INT'L
0256	WESTERN ELECTRO-ACOUSTIC LAB
0263	WHITTAKER ANALYTICAL SERVICES
0226	WISS, JANNEY, ELSTNER AND ASSOCIATES
	WORLD CARPETS
0197	
0524	YANKEE ATOMIC ELECTRIC

(

Acoustics LAP

## Carpet LAP

0106	UNITED STATES TESTING	CA
0108	CERTIFIED TESTING LABS	GA
0114	SOUTHWEST RESEARCH INSTITUTE	TX
0115	FACTORY MUTUAL	MA
0120	COMMERCIAL TESTING	GA
0139	AMERICAN CARPET LABS	GA
0149	E & B CARPET MILLS	GA
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	VA
0156	BIGELOW SANFORD	GA
0160	CHISHOLM TRAIL TESTING & ENGINEERING	TX
0163	GALAXY TESTING LAB	GA
0166	INDEPENDENT TEXTILE TESTING	GA
0178	BIGELOW SANFORD	SC
0190	CORONET CARPET	GA
0193	SHAW INDUSTRIES	GA
0197	WORLD CARPETS	GA
0220	STRATTON LABORATORIES	GA
0221	SALEM CARPET LABORATORY	GA
0243	CUSTOM COATING	GA
0247	HOLLYTEX CARPET MILL	OK
0255	UNDERWRITERS LABORATORIES	NY
0255		NY

## Concrete LAP

0131 0133 0135 0136 0137 0141 0143 0146 0154 0176 0177 0183 0188 0191 0192 0195 0196 0201 0203 0206 0208 0215 0230 0237 0237 0241 0257	H.C. NUTTING WALT KEELER AGUIRRE ENGINEERS CONTRACTOR'S SUPPLY CONSTRUCTION TECHNOLOGY LABORATORY GENSTAR STONE PRODUCTS KELSO INDUSTRIES AMERICAN TESTING LABS ARUNDEL W. R. GRACE ATLANTIC TESTING LABS A & H/FLOOD ENGINEERING TWIN CITY TESTING AND ENGINEERING STS CONSULTANTS 9MITH-EMERY GARCO TESTING LABORATORY TEXAS TESTING LABORATORY PITTSBURGH TESTING LABORATORY CALMAT CO/CONROCK DIV TESTING LAB R.W. SIDLEY GULF COAST TESTING LABORATORY CONSTRUCTION MATERIALS VIRGINIA CONCRETE LABORATORY RITCHIE LABORATORIES STS CONSULTANTS PITTSBURGH TESTING LABORATORY UNITED STATES TESTING LABORATORY UNITED STATES TESTING WESTERN STATES GAI CONSULTANTS	OHSONALDADADADADADADADADADADADADADADADADADAD
	Commercial Products LAP	
0252	D/L LABORATORIES	NV

0252 0259	D/L LABORATORIES MACMILLAN BLOEDEL	NY
0263	WHITTAKER ANALYTICAL SERVICES	CA
0266	UNITED STATES TESTING	NJ

# Dosimetry LAP

0501 0502 0503 0504 0506 0506 0507 0508 0509 0510 0511 0512 0514 0515 0516 0517 0518 0517 0518 0517 0518 0517 0520 0521 0522 0523 0524 0523 0524 0525 0528 0529 0530 0531 0532 0533 0534 0537 0539	BALTIMORE GAS & ELECTRIC UNION ELECTRIC MALLINCKRODT DIAGNOSTICS NAVAL MEDICAL COMMAND DUKE POWER SOUTHERN CALIFORNIA EDISON EPA NUCLEAR RADIATION ASSESSMENT DIV NEW YORK POWER AUTHORITY-INDIAN POINT NAVAL RESEARCH LABORATORY GPU NUCLEAR CORP. NEW YORK POWER AUTHORITY-LYCOMING RADIATION DETECTION ROCHESTER GAS & ELECTRIC EBERLINE SERVICES /THERMO ELECTRON TENNESSEE VALLEY AUTHORITY HARRIS ENERGY & ENVIRONMENTAL CENTER R. S. LANDAUER JR. HOUSTON LIGHTING & POWER VIRGINIA ELECTRIC & POWER, MINERAL DUQUESNE LIGHT CONSUMERS POWER VIRGINIA ELECTRIC & POWER, SURRY YANKEE ATOMIC ELECTRIC MAHA PUBLIC POWER DISTRICT KANSAS GAS & ELECTRIC TEXAS UTILITIES GENERATING DETROIT EDISON LOUISIANA POWER & LIGHT CO PUBLIC SERVICE ELECTRIC & GAS SIEMENS GAMMASONICS TELEDYNE ISOTOPES GULF STATES UTILITIES-RIVER BEND ARIZONA NUCLEAR POWER PROJECT PACIFIC GAS & ELECTRIC US ARMY IONIZING RADIATION DOS CTR	M M M N C A Y Y C A Y M A L C L X A A M A A E S X H A N L N L N L A C K
	Seals and Sealants LAP	
0252	D/L LABORATORIES	NY
	Stove LAP	
0116 0117 0223 0225 0235 0240 0244 0245 0246 0249 0264	UNDERWRITERS LABORATORIES UNDERWRITERS LABORATORIES PFS CORPORATION ARNOLD GREENE TESTING LABORATORY PACIFIC INSPECTION & RESEARCH OMNI ENVIRONMENTAL SERVICES NORTHWEST TESTING LABS R.F. GEISSER AND ASSOC STOVE TESTING WARNOCK HERSEY INT'L SHELTON RESEARCH	IL CA WI MA WA OR OR RI WA WI NM
	Thermal Insulation LAP	
0101 0102 0103 0104 0105 0106 0107 0109 0111 0113 0115 0116 0117 0120 0121 0123	CERTAINTEED BUTLER MANUFACTURING DOW CHEMICAL NAHB RESEARCH FOUNDATION UNITED STATES TESTING UNITED STATES TESTING UNITED STATES TESTING OWENS CORNING FIBERGLAS JIM WALTER RESEARCH DYNATECH R & D FACTORY MUTUAL UNDERWRITERS LABORATORIES UNDERWRITERS LABORATORIES COMMERCIAL TESTING SPARRELL ENGINEERING RESEARCH MANVILLE	PAO HONDO CONTANAL CAN HONDO CONTANA LA CAN HONDO C

0124	OWENS CORNING FIBERGLAS	CA
0125	OWENS CORNING FIBERGLAS	GA
0126	OWENS CORNING FIBERGLAS	KS
0127	OWENS CORNING FIBERGLAS	CN.
0128	OWENS CORNING FIBERGLAS	NY
0129	OWENS CORNING FIBERGLAS	OH
0130	OWENS CORNING FIBERGLAS	TX
0142	GEOSCIENCE	CA
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	AV
0175	DOW CHEMICAL, NORTH HAVEN LABS	CT
0188	TWIN CITY TESTING AND ENGINEERING	MN
0210	INSTA-FOAM PRODUCTS	IL
0216	U.S. GYPSUM COMPANY	IL
0218	APACHE BUILDING PRODUCTS	LN
0226	WISS, JANNEY, ELSTNER AND ASSOCIATES	IL
0248	KNAUF FIBER GLASS RESEARCH	IN
0250	W. R. GRACE	MA
0251	CALIFORNIA DEPT. OF CONSUMER AFFAIRS	CA
0258	CELOTEX TRACY PLANT	CA
0260	BASE STYROPOR TECHNICAL CENTER	E.M
0261	RADCO	CA
		Un t

Index C. Accredited Laboratories by State and Lab Code Number

THUEX	c. Accredited Laboratories by State and Lab coo
0259	MACMILLAN BLOEDEL
0516	TENNESSEE VALLEY AUTHORITY
0536 0251	ARIZONA NUCLEAR POWER PROJECT
0203	CALIFORNIA DEPT. OF CONSUMER AFFAIRS CALMAT CO/CONROCK DIV TESTING LAB
0258	CELOTEX TRACY PLANT
0142	GEOSCIENCE
0124	OWENS CORNING FIBERGLAS
0537	PACIFIC GAS & ELECTRIC
0261	RADCO
0512	RADIATION DETECTION
0192	SMITH-EMERY
0506 011 <b>7</b>	SOUTHERN CALIFORNIA EDISON UNDERWRITERS LABORATORIES
0117	UNDERWRITERS LABORATORIES
0106	UNITED STATES TESTING
0106	UNITED STATES TESTING
0241	UNITED STATES TESTING WESTERN STATES
0256	WESTERN ELECTRO-ACOUSTIC LAB
0263	WHITTAKER ANALYTICAL SERVICES
0135 0215	AGUIRRE ENGINEERS CONSTRUCTION MATERIALS
0123	MANVILLE
0123	MANVILLE
0175	DOW CHEMICAL, NORTH HAVEN LABS
0509	NAVAL RESEARCH LABORATORY
0111	JIM WALTER RESEARCH
0111	JIM WALTER RESEARCH
0139 0156	AMERICAN CARPET LABS BIGELOW SANFORD
0108	CERTIFIED TESTING LABS
0120	COMMERCIAL TESTING
0120	COMMERCIAL TESTING
0190	CORONET CARPET
0243	CUSTOM COATING
0149 0163	E & B CARPET MILLS GALAXY TESTING LAB
0166	INDEPENDENT TEXTILE TESTING
0125	OWENS CORNING FIBERGLAS
0221	SALEM CARPET LABORATORY
0193	SHAW INDUSTRIES
0220	STRATTON LABORATORIES
0197	WORLD CARPETS A & H/FLOOD ENGINEERING
0183 0137	CONSTRUCTION TECHNOLOGY LABORATORY
0210	INSTA-FOAM PRODUCTS
0518	R. S. LANDAUER JR.
0227	RIVERBANK ACOUSTICAL LAB OF IIT
0532	SIEMENS GAMMASONICS
0191 0216	STS CONSULTANTS U.S. GYPSUM COMPANY
0116	UNDERWRITERS LABORATORIES
0116	UNDERWRITERS LABORATORIES
0226	WISS, JANNEY, ELSTNER AND ASSOCIATES
0248	KNAUF FIBER GLASS RESEARCH
0526	KANSAS GAS & ELECTRIC
0126	OWENS CORNING FIBERGLAS
0232 0133	RITCHIE LABORATORIES WALT KEELER
0539	US ARMY IONIZING RADIATION DOS CTR
0534	GULF STATES UTILITIES-RIVER BEND
0530	LOUISIANA POWER & LIGHT CO
0225	ARNOLD GREENE TESTING LABORATORY
0113	DYNATECH R & D
0115	FACTORY MUTUAL FACTORY MUTUAL
0115 0250	W. R. GRACE
0176	W. R. GRACE
0524	YANKEE ATOMIC ELECTRIC
0154	ARUNDEL
0501	BALTIMORE GAS & ELECTRIC
0141	GENSTAR STONE PRODUCTS

0104	NAHB RESEARCH FOUNDATION	MD
		MD
0504	NAVAL MEDICAL COMMAND	
0121	SPARRELL ENGINEERING RESEARCH	ME
0522	CONSUMERS POWER	MI
0529	DETROIT EDISON	MI
0188	TWIN CITY TESTING AND ENGINEERING	MN
0188	TWIN CITY TESTING AND ENGINEERING	MN
		MO
0102	BUTLER MANUFACTURING	
0503	MALLINCKRODT DIAGNOSTICS	MO
0502	UNION ELECTRIC	MO
0505	DUKE POWER	NC
0517	HARRIS ENERGY & ENVIRONMENTAL CENTER	NC
	OMAHA PUBLIC POWER DISTRICT	NE
0525		
0218	APACHE BUILDING PRODUCTS	NJ
0260	BASE STYROPOR TECHNICAL CENTER	LИ
0127	OWENS CORNING FIBERGLAS	LИ
0531	PUBLIC SERVICE ELECTRIC & GAS	IJ
0533	TELEDYNE ISOTOPES	NJ
0105	UNITED STATES TESTING	NJ
0266	UNITED STATES TESTING	NJ
0515	EBERLINE SERVICES / THERMO ELECTRON	NM
0264	SHELTON RESEARCH	NM
0507	EPA NUCLEAR RADIATION ASSESSMENT DIV	NV
0177	ATLANTIC TESTING LABS	NY
0252	D/L LABORATORIES	NY
0252	D/L LABORATORIES	NY
0229	GOLD BOND BUILDING PRODUCTS	NY
0508	NEW YORK DOWED ALTHOPTTY INDIAN POINT	NY
0500	NEW YORK POWER AUTHORITY-INDIAN POINT NEW YORK POWER AUTHORITY-LYCOMING	
0511		NY
0128	OWENS CORNING FIBERGLAS	NY
0237	PITTSBURGH TESTING LABORATORY	NY
0514	ROCHESTER GAS & ELECTRIC	NY
0255	UNDERWRITERS LABORATORIES	NY
0103	DOW CHEMICAL	OH
0131	H.C. NUTTING	OH
0109	OWENS CORNING FIBERGLAS	OH
0109	OWENS CORNING FIBERGLAS	OH
0129	OWENS CORNING FIBERGLAS	OH
0206	R.W. SIDLEY	OH
0247	HOLLYTEX CARPET MILL	OK
0107	UNITED STATES TESTING	OK
0244	NORTHWEST TESTING LABS	OR
0240	OMNI ENVIRONMENTAL SERVICES	OR
0146	AMERICAN TESTING LABS	PA
0228	ARMSTRONG WORLD INDUSTRIES	PA
0101	CERTAINTEED	PA
0521	DUQUESNE LIGHT	PA
0257	GAI CONSULTANTS	PA
0510	GPU NUCLEAR CORP.	PA
0201	PITTSBURGH TESTING LABORATORY	PA
0245	R.F. GEISSER AND ASSOC	RI
0178	BIGELOW SANFORD	SC
0160	CHISHOLM TRAIL TESTING & ENGINEERING	TX
0208	GULF COAST TESTING LABORATORY	TX
0519	HOUSTON LIGHTING & POWER	TX
0143	KELSO INDUSTRIES	TX
0130	OWENS CORNING FIBERGLAS	TX
0114	SOUTHWEST RESEARCH INSTITUTE	TX
0196	TEXAS TESTING LABORATORY	TX
0528	TEXAS UTILITIES GENERATING	TX
0195		
	GARCO TESTING LABORATORY	UT
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	VA
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	VA
0233	STS CONSULTANTS	VA
0230	VIRGINIA CONCRETE LABORATORY	VA
0520	VIRGINIA ELECTRIC & POWER, MINERAL	VA
	VIDOINIA ELECTRIC & POWER, MINERAL	
0523	VIRGINIA ELECTRIC & POWER, SURRY	VA
0235	PACIFIC INSPECTION & RESEARCH	WA
0246	STOVE TESTING	WA
0239	HOUGH ACOUSTICAL LABORATORY	WI
0223	PFS CORPORATION	WI
0249	WARNOCK HERSEY INT'L	WI
0136	CONTRACTOR'S SUPPLY	WV
0108	CUNTRACTOR S SUFFET	πV

#### Index D. Test Methods Available Under Each LAP

This index provides a cross reference of NVLAP test method code numbers and designations for the methods offered under each LAP. The test methods for which each laboratory is accredited are shown in Index E and in the Scope of Accreditation shown for each laboratory, in the Directory

#### INSULATION LAP

#### Listing by NVLAP Code

01/C01	ASTM C739	01/D19	ASTM D2126	01/504	ASTM C209
01/C02	HH-I-515	01/D20	ASTM D2126	01/505	ASTM C209
01/D01	ASTM C136	01/D21	ASTM D2126	01/506	ASTM C209
01/002	ASTM C167	01/D22	ASTM D2126	01/507	ASTM C273
01/D03	ASTM C209	01/D23	ASTM D2842	01/508	ASTM C446
01/D04	ASTM C209	01/D24	ASTM C739	01/509	ASTM D781
01/D05	ASTM C209	01/D25	HH-I-515	01/510	ASTM D828
01/D06	ASTM C209	01/D26	HH-I-515	01/511	ASTM D1621
01/D07	ASTM C272	01/D27	ASTM D2126	01/T01	ASTM C177
01/008	ASTM C302	01/D28	ASTM D2126	01/T04	ASTM C236
01/D09	ASTM C303	01/F01	TAPPI T461	01/T05	ASTM C335
01/D11	ASTM C356	01/F02	ASTM E84	01/T06	ASTM C518
01/D12	ASTM C411	01/F05	ASTM E136	01/T09	ASTM C653
01/D13	ASTM C519	01/F06	ASTM C739	01/T10	ASTM C687
01/D14	ASTM C520	01/F07	HH-I-515	01/02	TAPPI T419
01/D15	ASTM D756	01/F08	HH-I-515	01/V03	ASTM D2020
01/D16	ASTM D756	01/501	ASTM C165	01/V04	ASTM E96
01/D17	ASTM D756	01/502	ASTM C203	01/V05	HH-I-515
01/D18	ASTM D1622	01/503	ASTM C209	01/V06	HH-I-515

## Listing by Designation

ASTM C136 ASTM C165 ASTM C167 ASTM C177 ASTM C203 ASTM C209 ASTM C209	01/D01 01/S01 01/D02 01/T01 01/S02 01/D03 01/D04 01/D05 01/D06 01/S03 01/S04 01/S05 01/S06 01/S06	ASTM C356 ASTM C411 ASTM C446 ASTM C518 ASTM C519 ASTM C520 ASTM C653 ASTM C687 ASTM C687 ASTM C739 ASTM C739 ASTM C739 ASTM C739 ASTM D1621 ASTM D1622	01/D11 01/D12 01/S08 01/T06 01/D13 01/D14 01/T09 01/T10 01/C01 01/C01 01/C01 01/D24 01/F06 01/S11 01/D18	ASTM D2126 ASTM D2842 ASTM D756 ASTM D756 ASTM D756 ASTM D781 ASTM D828 ASTM E136 ASTM E136 ASTM E84 ASTM E96 HH-I-515 HH-I-515 HH-I-515	01/D28 01/D23 01/D15 01/D16 01/D17 01/S09 01/F05 01/F02 01/V04 01/C02 01/D25 01/D25
	,				
ASTM C209	01/503	ASTM C739	01/D24	ASTM E96	
ASTM C209	01/504	ASTM C739	01/F06	HH-I-515	01/C02
ASTM C209	01/S05	ASTM D1621	01/S11	HH-I-515	01/D25
ASTM C209	01/506	ASTM D1622	01/D18	HH-I-515	01/D26
ASTM C236	01/T04	ASTM D2020	01/V03	HH-I-515	01/F07
ASTM C272	01/D07	ASTM D2126	01/D19	HH-I-515	01/F08
ASTM C273	01/\$07	ASTM D2126	01/D20	HH-I-515	01/V05
ASTM C302	01/D08	ASTM D2126	01/D21	HH-I-515	01/V06
ASTM C303	01/D09	ASTM D2126	01/D22	TAPPI T419	01/V02
ASTM C335	01/T05	ASTM D2126	01/D27	TAPPI T461	01/F01

01/C03	California Energy Commission (CEC) tests for Corrosiveness	5
01/D29	CEC tests for Installed Compressed Thickness	
01/S12	CEC tests for Bond Strength	
01/513	CEC tests for Bond Deflection	
01/514	CEC tests for Air Erosion	

Listing b	y NVLAP Code	Listing by Des	ignation
02/A01	ASTM C231	ASTM C31	02/M01
02/A02	ASTM C173	ASTM C39	02/S01
02/M01	ASTM C31	ASTM C138	02/W01
02/M03	ASTM C172	ASTM C143	02/P01
02/P01	ASTM C143	ASTM C172	02/M03
02/S01	ASTM C39	ASTM C173	02/A02
02/S01	ASTM C138	ASTM C231	02/A01

# CARPET LAP

Listing by NVLAP Code	Listing by Designation	
03/C01 AATCC 16E 03/C02 AATCC 8 03/D01 ASTM D418 03/D02 DDD-C-95A 03/S01 ASTM D1335 03/E01 AATCC 134/CRI 102 03/F01 ASTM E84 03/F02 UL 992	AATCC 16E AATCC 8 ASTM D1335 ASTM D418 ASTM E648 ASTM E84	03/E01 03/C01 03/C02 03/S01 03/D01 03/F04 03/F01 03/D02
03/F03 16 CFR Part 1630 sec 1630.4 03/F04 ASTM E648 03/B01 UM 44C Addendum 3 03/B02 UM 44C Addenda 2 and 3	UL 992 UM 44C Addenda 2 and 3 UM 44C Addendum 3	03/F02 03/B02 03/B01 03/F03

		STOVE	LAP		
	Section of UL 737 5th Edition (11/9/82)	Section of UL 1482 2nd Edition (1/24/83)		Section of UL 737 5th Edition (11/9/82)	Section of UL 1482 2nd Edition (1/24/83)
04/F01 04/F02 04/F04 04/F05 04/F06	8 9 11 12	8 9 11 14 12	04/M02 04/M03 04/E01 04/E02 04/E03	17 17 33 34 35	17 17 33 34 35
04/F07 04/F08	13 15	13 16	04/E04 04/E05	36 38	36 38
04/F09 04/F10	16 14	16 15	04/E06 04/E07	37 39	37 39
04/M01	17	17	04/E08	40	40

## Section of CSA Standard

	B 366.2-M1984 (ULC s627-M1984)		C 22.2 No. 3	C 22.2 No. 113
	(April, 1984)		1979	1982
04/F11 04/F12 04/F14 04/F16 04/F17 04/F18 04/F19 04/F20 04/M04 04/M05 04/M06	7.2 7.3 7.5 7.6 7.7 7.12 7.10 7.11 12 12 12	04/E09 04/E10 04/E11 04/E12 04/E13	6.2 6.2 6.3 6.4	6.4 6.8 6.5 6.9
04/G01 04/G02 04/G03	ASTM P180 Flue-1	oss thermodynam	characteristics ic performance to modynamics perfor	ests

# ACOUSTICS LAP

Listing b	y NVLAP Code	Listing by Designation	
08/E01 08/E02 08/E03 08/E03 08/E05 08/E05 08/E07 08/E08 08/E09 08/E10 08/E12 08/E13 08/E13 08/E13 08/E13 08/E13 08/E13 08/E14 08/E15 08/E13 08/E14 08/E15 08/E16 08/E17 08/E18 08/E17 08/E18 08/E19 08/E20 08/E21 08/E22 08/E23 08/E23 08/E22 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/E23 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08	ANSI 671.para. 9/21 ANSI S1.29 ANSI S1.34 ANSI S5.1 ANSI S5.1 ANSI S5.1 ANSI S5.1 ANSI S5.1 ISO 362 ISO 512 ISO 3744 ISO 5130 SAE J192a SAE J1161 Title 40, CFR, Part 205 Title 40, CFR, Part 205 Title 40, CFR, Part 205	AMA-1-II-67 AMCA Test Code 300 ANSI B71. para. 9/ 21 ANSI S1.29 ANSI S1.31 ANSI S1.31 ANSI S1.31 ANSI S1.32 ANSI S1.32 ANSI S1.35 ANSI S1.35 ANSI S1.35 ANSI S1.35 ANSI S3.19 ANSI S5.1 ANSI S5.1 ASIM C384 ASIM C384	08/E21 08/E20 08/E01 08/E02 08/P11 08/P12 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/E03 08/E04 08/E05 08/E06 08/E07 08/E08 08/P01 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P03 08/P13 08/P22 08/E13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08/P13 08

# COMMERCIAL PRODUCTS LAP

Paints and	Related Coatings	and Materials-Listing	by NVLAP Code
09/A01 09/A02 09/A03 09/A04 09/A05 09/A06 09/A07 09/A08 09/A09 09/A09 09/A10 09/A11 09/A12 09/A13 09/A14	ASTM D1186 ASTM D1200 ASTM D1210	09/A15 09/A16 09/A17 09/A18 09/A19 09/A20 09/A21 09/A22 09/A23 09/A23 09/A23 09/A23 09/A23 09/A25 09/A25 09/A26 09/A27 09/A28	ASTM D1310 ASTM D1400 ASTM D1475 ASTM D1544 ASTM D1729 ASTM D2244 ASTM D3278 ASTM D3278 ASTM D3278 ASTM D3793 ASTM D3793 ASTM D4061 ASTM D4061 ASTM D4212 ASTM E308 ASTM E313
09/B01 09/B02 09/B03 09/B05 09/B05 09/B06 09/B07 09/B08 09/B07 09/B10 09/B10 09/B11 09/B12 09/B13 09/B14 09/B15 09/B15 09/B17 09/B18 09/B17 09/B18 09/B17 09/B18 09/B19 09/B20 09/B21	ASTM D279 ASTM D332 ASTM D344 ASTM D610 ASTM D659 ASTM D660 ASTM D661 ASTM D661 ASTM D662 ASTM D711 ASTM D714 ASTM D714 ASTM D714 ASTM D712 ASTM D821 ASTM D821 ASTM D868 ASTM D869 ASTM D870 ASTM D913 ASTM D969 ASTM D1308 ASTM D1309 ASTM D1309 ASTM D1360 ASTM D1543	09/B23 09/B24 09/B25 09/B26 09/B27 09/B28 09/B30 09/B30 09/B31 09/B32 09/B33 09/B34 09/B35 09/B35 09/B35 09/B37 09/B38 09/B39 09/B40 09/B41	ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2366 ASTM D2805 ASTM D2805 ASTM D3273 ASTM D3274 ASTM D3450 ASTM D3450 ASTM D3456 ASTM D3456 ASTM D4060 ASTM D4062 ASTM D4062 ASTM D4214 Fed. Std. 141 Method 4494 Fed. Std. 141 Method 4061
09/C01 09/C02 09/C03 09/C04 09/C05 09/C06 09/C07 09/C08 09/C09 09/C10 09/C10 09/C11 09/C12 09/C13 09/C14 09/C15 09/C16 09/C17 09/C18 09/C19 09/C20	ASTM D34 ASTM D95 ASTM D521 ASTM D563 ASTM D661 ASTM D1078 ASTM D1208 ASTM D1208 ASTM D1259 ASTM D1306 ASTM D1306 ASTM D1364 ASTM D1397 ASTM D1398 ASTM D1398 ASTM D1399 ASTM D1399 ASTM D1467 ASTM D1469 ASTM D1461	09/C21 09/C22 09/C23 09/C25 09/C25 09/C26 09/C27 09/C28 09/C29 09/C30 09/C31 09/C31 09/C32 09/C33 09/C34 09/C35 09/C35 09/C35 09/C37 09/C38 09/C39 09/C39 09/C39	ASTM D1639 ASTM D1644 ASTM D1652 ASTM D2075 ASTM D2076 ASTM D2369 ASTM D2371 ASTM D2697 ASTM D2697 ASTM D2698 ASTM D2832 ASTM D3009 ASTM D3009 ASTM D3271 ASTM D3272 ASTM D3723 ASTM D3723 ASTM D3723 ASTM D3792 ASTM D3960 ASTM D4017
09/D01 09/D02 09/D03 09/D04 09/D05 09/D06 09/D07 09/D08	ASTM B117 ASTM D609 ASTM D822 ASTM D823 ASTM D1106 ASTM D1014 ASTM D1654 ASTM D1730	09/D09 09/D10 09/D11 09/D12 09/D13 09/D14 09/D15 09/D16	ASTM D1734 ASTM D2247 ASTM D2372 ASTM D3361 ASTM D3924 ASTM G23 ASTM G26 ASTM G53

Paints and Rel	ated Coatings	and Materials-Listing	by Designation
ASTM B117	09/D01	ASTM D1541	09/019
ASTM D34	09/C01	ASTM D1541	09/B22
ASTM D56	09/A01	ASTM D1544	09/A18
ASTM D93	09/A02	ASTM D1613	09/020
ASTM D95	09/C02	ASTM D1639	09/C21
ASTM D153	09/A03	ASTM D1640	09/B23
ASTM D185	09/A04	ASTM D1640	09/022
ASTM D105	09/B01	ASTM D1644	09/023
ASTM D275	09/A05	ASTM D1652	09/D07
ASTM D332	09/802	ASTM D1004	09/A19
ASTM D344			
ASTM D344 ASTM D387	09/803	ASTM D1730	09/D08
ASTM D507	09/A06 09/C03	ASTM D1734	09/D09
ASTM D521	09/A07	ASTM D1737 ASTM D2075	09/B24 09/C24
		ASTM 02075	
ASTM D562	09/A08	ASTM D2076	09/025
ASTM D563	09/004	ASTM D2197	09/B25
ASTM D609	09/D02	ASTM D2243	09/B26
ASTM D610 ASTM D611	09/B04 09/C05	ASTM D2244 ASTM D2247	09/A20 09/D10
ASTM D659	09/B05	ASTM D2247 ASTM D2248	09/B27
ASTM D659		ASTM 02248 ASTM 02366	09/B27 09/B28
ASTM D660	09/B06 09/B07	ASTM 02369	09/026
ASTM D662	09/B08	ASTM 02309	09/027
ASTM DO02	09/B09	ASTM D2371	09/D11
ASTM D714	09/B10	ASTM D2972	09/B29
ASTM D772	09/B11	ASTM D2400	09/C28
ASTM D821	09/B12	ASTM D2698	09/029
ASTM D822	09/D03	ASTM D2801	09/B30
ASTM D823	09/D04	ASTM D2805	09/B31
ASTM D868	09/B13	ASTM D2832	09/030
ASTM D869	09/B14	ASTM D3009	09/031
ASTM D870	09/B15	ASTM D3271	09/032
ASTM D913	09/B16	ASTM D3272	09/033
ASTM D968	09/B17	ASTM D3273	09/B32
ASTM D969	09/818	ASTM D3274	09/B33
ASTM D1005	09/A09	ASTM D3278	09/A21
ASTM D1014	09/D06	ASTM D3335	09/034
ASTM D1078	09/006	ASTM D3361	09/D12
ASTM D1106	09/005	ASTM D3363	09/A22
ASTM D1133	09/007	ASTM D3450	09/B34
ASTM D1186	09/A10	ASTM D3456	09/B35
ASTM D1200	09/A11	ASTM D3623	09/B36
ASTM D1208	09/008	ASTM D3624	09/C35
ASTM D1210	09/A12	ASTM D3718	09/C36
ASTM D1212	09/A13	ASTM D3723	09/C37
ASTM D1259	09/009	ASTM D3792	09/C38
ASTM D1296	09/A14	ASTM D3793	09/A23
ASTM D1306	09/C10	ASTM D3924	09/D13
ASTM D1308	09/B19	ASTM D3960	09/C39
ASTM D1309	09/B20	ASTM D4017	09/C40
ASTM D1310	09/A15	ASTM D4060	09/B37
ASTM D1353	09/C11	ASTM D4061	09/A24
ASTM D1360	09/B21	ASTM D4062	09/B38
ASTM D1364	09/C12	ASTM D4212	09/A25
ASTM D1394	09/C13	ASTM D4213	09/B39
ASTM D1397	09/014	ASTM D4214	09/B40
ASTM D1398	09/C15	ASTM E308	09/A27
ASTM D1399	09/016	ASTM E313	09/A28
ASTM D1400	09/A16	ASTM E97	09/A26
ASTM D1467	09/017	ASTM G23	09/D14
ASTM D1469	09/C18	ASTM G26	09/D15
ASTM D1475	09/A17	ASTM G53	09/D16
Fed. Std. 141		09/B42	
Fed. Std. 141	Mechou 4494	09/B41	

#### PAPER AND RELATED PRODUCTS

Paper and Paperboard

Listing by NVLAP Co	de	Listing by Designation		
09/E01 TAPPI T208- 09/E02 TAPPI T402- 09/E03 TAPPI T403- 09/E04 TAPPI T404- 09/E05 TAPPI T410-	OM ASTM D685 OS ASTM D774 OM ASTM D828 OM	TAPPI T208-0S TAPPI T402-0M TAPPI T403-0S TAPPI T404-0M TAPPI T410-0M	ASTM D685 ASTM D774 ASTM D828	09/E01 09/E02 09/E03 09/E04 09/E05
09/E06 TAPPI T411- 09/E07 TAPPI T412- 09/E08 TAPPI T414- 09/E09 TAPPI T425- 09/E10 TAPPI T435-	OM ASTM D644 OM ASTM D689 OM	TAPPI T411-OM TAPPI T412-OM TAPPI T414-OM TAPPI T425-OM TAPPI T435-OM	ASTM D644 ASTM D689	09/E06 09/E07 09/E08 09/E09 09/E10
09/E11 TAPPI T452- 09/E12 TAPPI T459- 09/E13 TAPPI T459- 09/E13 TAPPI T460- 09/E14 TAPPI T480- 09/E15 TAPPI T480-	om om Astm D2482 om Astm D726 om	TAPPI T452-0M TAPPI T459-0M TAPPI T460-0M TAPPI T460-0M TAPPI T480-0S	ASTM D2482 ASTM D726	09/E11 09/E12 09/E13 09/E14 09/E15
09/E16 TAPPI T489- 09/E17 TAPPI T494- 09/E18 TAPPI T511- 09/E19 TAPPI T538- 09/E20 TAPPI T538- 09/E21 TAPPI T818-	om om ASTM D2176 PM om	TAPPI T489-OS TAPPI T494-OM TAPPI T511-OM TAPPI T538-PM TAPPI T809-OM	ASTM D2176	09/E16 09/E17 09/E18 09/E19 09/E20
09/E21 TAPPI T818-	OM ASTM D1164	TAPPI T818-OM	ASTM D1164	09/E21

## Paper Specifications

09/F01 ASTM D3208 para. 11

09/F02 ASTM D3290 para. 11.2

#### Pressure Sensitive Tapes

Listing by NVLAP Code

09/H01 ASTM D642 09/H03 ASTM D1108 Listing by Designation

	ASTM D3330, ASTM D3652	D3330M	ASTM D3330, D3330M ASTM D3652	09/G01 09/G02
09/G03 09/G04 09/G05 09/G06	ASTM D3654, ASTM D3662 ASTM D3759 ASTM D3811	D3654M	ASTM D3654, D3654M ASTM D3662 ASTM D3759 ASTM D3811	09/G03 09/G04 09/G05 09/G06
09/G07	ASTM D3815		ASTM D3815	09/G07

#### Packaging

#### 09/H02 ASTM D895

Federal Test Method Standard 101C for Preservation, Packaging, and Packaging Materials

Listing	by NVLAP	Code	Listing	by Des.	ignation
09/H04 09/H05 09/H06 09/H07 09/H08 09/H09	Method Method Method Method	4035 4047 5001 5005.1 5007.1 5008.1	Method Method Method Method Method	4035 4047 5001 5005.1 5007.1	09/H04 09/H05 09/H06 09/H07 09/H08
09/H10 09/H11	Method Method	5009.2 5011.1	Method Method Method	5008.1 5009.2 5011.1	09/H09 09/H10 09/H11
09/H12 09/H13 09/H14	Method	5012 5013 5014	Method Method	5012 5013 5014	09/H12 09/H13 09/H14
09/H15 09/H16 09/H17	Method	5015 5016.1 5017	Method Method Method	5015	09/H15 09/H16
09/H18 09/H19	Method Method	5018 5019.1	Method Method	5018 5019.1	09/H17 09/H18 09/H19
09/H20 09/H21 09/H22		5020.1 5023 5026	Method Method	5020.1 5023 5026	09/H20 09/H21 09/H22

## COMMERCIAL PRODUCTS LAP CONTINUED

## MATTRESSES

09/K01	16 CFR Part 1632 Sec. 1632.4	09/K04	CCC- C-436D Sec. 4.4
09/K02	MIL-R-0020092J(SH) Sec. 4.4	09/K05	V-M-96H Sec. 4.4.1.1 & Sec 4.5
09/K03	MIL-M-18251F Sec. 4.5.1	09/K06	AH&MA/NABM

## DOSIMETRY LAP

ANSI N13.11-1983 Radiation Test Categories:

I., II., III., IV., V., VI., VII., VIII.

## ELECTROMAGNETICS LAP

12/CO1 FCC Methods

12/RO1 FCC Methods

12/T01 FCC Part 68

12/T02 FCC Part 68

## SEALS AND SEALANTS LAP

Listing by NVLAP Code

Listing by Designation

13/001	ASTM C-510
13/002	ASTM C-603
13/003	ASTM C-639
13/004	ASTM C-661
13/005	ASTM C-679
13/006	ASTM C-681
13/007	ASTM C-711
13/008	ASTM C-712
13/009	ASTM C-713
13/010	ASTM C-718
13/011	ASTM C-719
13/012	ASTM C-731
13/013	ASTM C-732
13/014	ASTM C-733
13/015	ASTM C-734
13/016	ASTM C-736
13/017	ASTM C-741
13/018	ASTM C-742
13/019	ASTM C-792
13/020	ASTM C-793
13/021	ASTM C-794
13/022	ASTM C-910
13/023	ASTM D-2202
13/024	ASTM D-2203
13/025	ASTM D-2376
13/026	ASTM D-2377
13/027	ASTM D-2450
13/028	ASTM D-2451
13/029	ASTM D-2452
13/030	ASTM D-2453

ASTM C-510	13/001
ASTM C-603	13/002
ASTM C-639	13/003
ASTM C-661	13/004
ASTM C-679	13/005
ASTM C-681	13/006
ASTM C-711	13/007
ASTM C-712	13/008
ASTM C-713	13/009
ASTM C-718	13/010
ASTM C-719	13/011
ASTM C-731	13/012
ASTM C-732	13/013
ASTM C-733	13/014
ASTM C-734	13/015
ASTM C-736	13/016
ASTM C-741	13/017
ASTM C-742	13/018
ASTM C-792	13/019
ASTM C-793	13/020
ASTM C-794	13/021
ASTM C-910	13/022
ASTM D-2202	13/023
ASTM D-2203	13/024
ASTM D-2376	13/025
ASTM D-2377	13/026
ASTM D-2450	13/027
ASTM D-2451	13/028
ASTM D-2452	13/029
ASTM D-2453	13/030

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INDEX E.	Summary of Accredited Laboratories by Test Method and LAP
	INSULATION LAP - 01

								_							_			_		_											
NVLAP Lab Code	C  0  1	C 0 2	C 0 3	D 0 1		D 0 3	D 0 4	D 0 5		D 0 7	0		D 1 1	D 1 2	D 1 3	<b> </b> 1	D 1 5	D 1 6	D 1 7		11	D 2 0	D 2 1	D 2 2	D 2 3	D  2  4	D 2 5	D 2 6	D 2 7	D 2 8	D  2  9
0101 0102		0	0	0	0						0	0			0						   					   	0	0			
0103 0104					0										0					0			0		0				0		İ
0105 0106 0107		0 0																		0							0	0	0	0	ļ
0109 0111 0113	0	0	0	0	0		0 0				0	0 0	0	0	0		0	0	0	0	0	0 0		0	0	0	0	0	0	0	
0115 0116	0	0 0		0	0	0	0	0	0		0	0			0	0				o						0	0 0	0			ļ
0117 0120 0121	   	0													0					1					1		0	0			
0123 0124 0125					0	0	0	0	0		0	0 0	0	0	0																
0126 0127					0							0 0			ļ																ļ
0128 0129 0130	   				0					ļ		0 0								I											
0142 0151 0175											0				1								0							0	
0188 0210																	0	0	0	0		0	Ŭ	0	0				0		ļ
0216 0218 0226																				0			0						0		
0248 0250 0251		0			0						0	0	0	0	0	0												0			
0258 0260		·																										Ŭ			Ì
0261										0		0											0						0		
		C 0 2	C 0 3	D 0 1	D 0	0	D 0 4	D 0 5	0	D 0  7	0	D 0 9	1	1	D 1 3	1	D 1 5	1	D 1 7	1	1	D 2 0	D 2 1	D 2 2	D 2 3	D	D 2 5	D 2 6	D 2 7	D 2 8	D  2  9
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NVLAP Test Method Code Number

continued next page

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# INSULATION LAP - 01 (continued)

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NVLAP Lab Code	F  0  1	F 0 2	F 0 5	F 0 6	F 0 7		S 0 1	S 0 2	0	S 0 4	0	S 0 6	S 0 7		0	S 1 0	S 1 1	S 1 2	1	S  1  4	T 0 1	T 0 4	T 0 5	T 0 6	T 0 9	T 1 0	V 0 2	V 03	V 0 4	-	V  0  6
0101 0102 0103 0104 0105 0106	0 	0	0		0	0	o	0					0	0	0	0	0	0			0	0	0		0	<b>0</b>			0 0 0		
0107 0109 0111 0113 0115	  0 	00000	0		0	0	0		0				0	0	0	0	0				0	0 0 0		0 0 0	0	0	0	0	0	0	
0116 0117 0120 0121 0123	      0	000000000000000000000000000000000000000	0	0	0 0 0		0		0					0	0		0				0	0	0		0	0	0	0	0	0	     
0124 0125 0126 0127 0128 0129 0130 0142			0																		0			0000000							
0151 0175 0188 0210 0216 0218 0226 0248 0226		0			0		0										0				0	0	0		0	0			0		
0250 0251 0258 0260 0261					0	0	0	0							0	0	0					0							0		
	F  0  1	F 0 2	F 0 5	F 0 6	F 0 7	F 0 8	S 0 1	S 0 2	S 0 3	S 0 4	0	0	S 0 7	0	S 0 9	1	S 1 1	S 1 2	1	S 1 4	T 0 1	T 0 4	T 0 5	T 0 6	T 0 9	1	V 0 2	V 0 3	V 0 4	-	vi 0  6

NVLAP Test Method Code Number

3

# CONCRETE LAP - 02

	HYLNI IC
NVLAP Lab Code	G G A 0 0 0 1 2 2
0131 0133 0135 0136 0137 0141 0143 0146 0154 0176 0177 0183 0188 0191 0192 0195 0196 0201 0203 0206 0208 0215 0230 0232 0233 0237 0241 0257	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

## CARPET LAP - 03

NVLAP Lab Code	C  0  1	C 0 2	D 0 1	D 0 2	S 0 1	E 0 1	F 0 1	F 0 2	F 0 3	F 0 4	B 0 1	B  0  2
0106 0108 0114 0115	0 0	0	0 0	0	0	0	0		0 0 0	0		0
0120 0139 0149 0151	0	0 0 0	0 0 0	0 0 0	0 0 0		0		0 0 0	00000		
0156 0160 0163 0166		00000	00000	0 0 0 0	0 0 0 0	0			0 0 0 0	0	0	0
0178 0190 0193 0197		0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0			0 0 0 0	0	0	
0220 0221 0243 0247 0255	0	0 0	ο	0	0 0 0					0000		
		C	D	D	S	E	F	F	F	F	B	
	0	2	0	02	0	01	0	0 2	03	0 4	0 1	2

# STOVE LAP - 04

# NVLAP Test Method Code Number

	jōōō	0 0 0	ōō	0 1 1	11	0 0 0	F F F F 0 0 0 0 5 6 7 8
0116 0117 0223 0225 0235 0240 0244 0245 0246			0000000				
0249 0264			0 0				
	000	0 0 0	0 0	0 1 1	. 1 1	0 0 0	F F F F   0 0 0 0  5 6 7 8

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	IF													-			-	-	11
Lab		_	1	1	-	1	-	_	1	_		0	0	0	0		0	0	01
Code	9	0	1	2	4	6	7	8	9	0	1	2	3	4	5	6	1	2	3
0116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			Í
0117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
0223	0	0									0	0	0						
0225	0	0									0	0	0						
0235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			1
0240	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
0244	0	0									0	0	0						1
0245	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
0246	0	0									0	0	0						
0249	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
0264	0	0															0	0	0
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	5	-	F	-	-	-	-	-		-							-		
		r 1	r 1	1	F	1							-	-	M		G	G	G
			-	_	-	-	1	1	1	2		0	0	0	0		0	0	
	9	Ų	Ŧ	2	4	0	1	0	Y	U	1	2	2	4	5	6	1	2	31
	-																		

## ACOUSTICS LAP - 08

	-												-								-		
NVLAP Lab Code		0	0	0	P 0 5	0	0	0	0	1	1	1	1	1	1	1	1	P 1 8	1	P 20	2	P 2 2	2
0109 0111 0123 0227 0228 0229 0239 0256		0			0		0	•		0		1	0				0						
	P  0  1	0	0	0	P 0 5	0	0	0	0	1	1	1	1	1	1		1	1	1	P 2 0	2	P 2 2	2

#### NVLAP Test Method Code Number

NVLAP Lab Code	E E E E E E E E E E E E E E E E E E E	
0109 0111 0123 0227 0228	0	0
0229 02 <b>3</b> 9 0256		0
	E E E E E E E E E E E E E E E E E E E	

## COMMERCIAL PRODUCTS LAP - 09

## PAINTS AND RELATED COATINGS AND MATERIALS

## NVLAP Test Method Code Number

NVLAP Lab Code  0252 0263 0266		00001		A A A A A A A A A A A A A A A A A A A
			NVLAP	Test Method Code Number
NVLAP Lab Code	00000	00001	1 1 1 1 1 1 1 2 3 4 5 6	B B B B B B B B B B B B B B B B B B B
0252 0263 0266	) o	000 0		
			NVLAP	Test Method Code Number
NVLAP Lab Code	C C C C C  0 0 0 0 0  1 2 3 4 5	IC C C C C 0 0 0 0 1 6 7 8 9 0		C C C C C C C C C C C C C C C C C C C
Lab	0 0 0 0 0  1 2 3 4 5 	00001  67890      0000	1 1 1 1 1 1  1 2 3 4 5 6 	1       1       1       1       2       2       2       2       2       2       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3
Lab Code  0252 0263	0 0 0 0 0 1 2 3 4 5 	0 0 0 0 1 6 7 8 9 0  0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{bmatrix} 1 & 1 & 1 & 1 & 1 \\ 1 & 2 & 3 & 4 & 5 & 6 \\ \hline	1       1       1       1       2       2       2       2       2       2       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3
Lab Code  0252 0263	0 0 0 0 0 0 1 2 3 4 5 	0 0 0 0 1 6 7 8 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 st Method D D D D D 0 0 0 1	1 1 1 1 1 1 1 2 3 4 5 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1       1       1       1       2       2       2       2       2       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3       3

continued on next page

## COMMERCIAL PRODUCTS LAP - 09 (continued)

## PAPER AND RELATED PRODUCTS

# NVLAP Test Method Code Number

Lab	E E  0 0  1 2	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2
0259		0		0	0	0	0		0		0	0				0		0	0	0

NVLAP Lab Code	00000000000	0 1 1 1 1 1 1	H H H H H H H H H H H H H H H  1 1 1 1 22 2 2 2 2 2 2 2 2 2  6 7 8 9 0 1 2 3 4 5 6 7 8 9	3
0259	0		000000	0

## DOSIMETRY LAP - 05

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Code         I         II         III         IV         V         VI         VII         VIII           0501         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	NVLAP Lab		ANSI	N13.11	Cate	egori	es (se	e not	e)
0502       0       0       0       0       0       0       0         0504       0       0       0       0       0       0       0         0505       0       0       0       0       0       0       0         0506       0       0       0       0       0       0       0       0         0507       0       0       0       0       0       0       0       0         0508       0       0       0       0       0       0       0       0         0510       0       0       0       0       0       0       0       0       0         0511       0       0       0       0       0       0       0       0         0514       0       0       0       0       0       0       0       0         0516       0       0       0       0       0       0       0       0         0520       0       0       0       0       0       0       0       0         0522       0       0       0       0       0       0       0<		I	II	III	IV	۷	VI	VII	VIII
0503       0       0       0       0       0       0       0       0         0504       0       0       0       0       0       0       0       0         0506       0       0       0       0       0       0       0       0         0507       0       0       0       0       0       0       0       0         0508       0       0       0       0       0       0       0       0         0509       0       0       0       0       0       0       0       0         0511       0       0       0       0       0       0       0       0         0512       0       0       0       0       0       0       0       0         0514       0       0       0       0       0       0       0       0         0518       0       0       0       0       0       0       0       0         0522       0       0       0       0       0       0       0       0         0524       0       0       0       0       0<		0	0	0	0	0	0	0	0
0504       0       0       0       0       0       0       0         0505       0       0       0       0       0       0       0         0506       0       0       0       0       0       0       0       0         0507       0       0       0       0       0       0       0       0         0508       0       0       0       0       0       0       0       0         0510       0       0       0       0       0       0       0       0         0511       0       0       0       0       0       0       0       0       0         0512       0       0       0       0       0       0       0       0       0         0514       0       0       0       0       0       0       0       0         0516       0       0       0       0       0       0       0       0         0520       0       0       0       0       0       0       0       0         0522       0       0       0       0       0<	0502		0				0		0
0505       0       0       0       0       0       0       0         0506       0       0       0       0       0       0       0         0508       0       0       0       0       0       0       0       0         0509       0       0       0       0       0       0       0       0         0511       0       0       0       0       0       0       0       0         0512       0       0       0       0       0       0       0       0         0514       0       0       0       0       0       0       0       0       0         0516       0       0       0       0       0       0       0       0         0518       0       0       0       0       0       0       0       0         0520       0       0       0       0       0       0       0       0         0522       0       0       0       0       0       0       0       0         0524       0       0       0       0       0       0<			0	0	0	·0	0		0
0507         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	0505			-			-		
0508         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		0		0		0	0	0	
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NOTE: Processors may be accredited for more than one dosimeter type. See the Scope of Accreditation for each processor in the last section of the Directory for details.

## SEALANTS

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NVLAP Test Method Code Number

Index F. Accredited Laboratories and Test Methods for Which They are Accredited

NVLAP LAB CODE 0101

CERTAINTEED CORPORATION INSULATION GROUP, R & D LABORATORY 1400 Union Meeting Road, Blue Bell, PA 19422 Dr. W. Francis Olix Phone: 215-341-6713

NVLAP Code	Designation	Short Title
01/CO2 (para.	HH-I-515 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C03 01/D01 01/D02 01/D08 01/D09 01/D13 01/D25 (para. 01/D26	California Energy Commis	ssion tests for insulating materials: fiber blankets and loose-fill Sieve or screen analysis Thickness and density; Blanket and batt Density; Preformed pipe insulation Density; Preformed block insulation Density; Loose-fill (fibrous) Moisture absorption; Cellulosic fiber (loose-fill) Settled density; Cellulosic fiber
	4.8.1 in D version, Amendment 1)	(loose-fill)
01/F01 01/F05	TAPPI T461 ASTM E136	Flame Resistance; Paper and paperboard Behavior of Materials in a Vertical Tube Furnace
	HH-I-515 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08 (para.	HH-I-515 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/501	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/508	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09 01/S10	ASTM D781 ASTM D828	Puncture test; Paperboard and fiberboard Tensile breaking strength; Paper and paperboard
01/512	Bond strength - Spray a	ssion tests for insulating materials: oplied cellulose
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04 01/T05 01/T06	ASTM C236 ASTM C335 ASTM C518	Thermal conductance; Guarded hot box Thermal conductivity; Pipe insulation Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

#### BUTLER MANUFACTURING COMPANY RESEARCH CENTER 135th Street and Botts Road, Grandview, MO 64030 Marvin K. Snyder Phone: 816-763-3022

Accreditation Renewal Date: January 1, 1987

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

#### NVLAP LAB CODE 0103

DOW CHEMICAL USA, FOAM PRODUCTS RESEARCH PRODUCT EVALUATION GROUP P.O. Box 515, Granville, OH 43023 Mike J. Ennis Phone: 614-587-4215

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/502	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/507	ASTM C273	Shear test; Sandwich construction
01/511	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

#### NVLAP LAB CODE 0104

NAHB RESEARCH FOUNDATION, INC. P.O. Box 1627, Rockville, MD 20850 Hugh Angleton Phone: 301-762-4200

Accreditation Renewal Date: Janu	Jary 1, 1987
NVLAP Code Designation	Short Title
01/D02         ASTM C167           01/D13         ASTM C519           01/T06         ASTM C518           01/T09         ASTM C653           01/T10         ASTM C687	Thickness and density; Blanket and batt Density; Loose-fill (fibrous) Thermal transmission properties; Heat flow meter Thermal resistance (Rec. Practice); Blanket (mineral fiber) Thermal resistance (Rec. Practice); Loose-fill (fibrous)

UNITED STATES TESTING COMPANY, INC. ENGINEERING SERVICES DIVISION 291 Fairfield Avenue, Fairfield, NJ 07006 Carl B. Yoder Phone: 201-575-5252

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07 (para.	HH-I-515 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0106

#### UNITED STATES TESTING COMPANY, INC. CALIFORNIA DIVISION 5555 Telegraph Road, Los Angeles, CA 90040 Bernd Givon Phone: 213-723-7181

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/CO2 (para.	HH-I-515 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07 (para.	HH-I-515 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/F01	ASTM E84	Surface Flammability
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
07 (70)	Sec. 1630.4	Test Procedure
03/F04	ASTM E648	Radiant Panel (Carpet)

NVLAP LAB CODE 0107

UNITED STATES TESTING COMPANY, INC. TULSA DIVISION 1341 North 108th East Avenue, Tulsa, OK 74116 Fred D. Wampnar Phone: 918-437-8333 Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/CO2 (para.	HH-I-515 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D25 (para.	HH-I-515 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
	HH-I-515 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F08 (para.	HH-I-515 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
	HH-I-515 4.8.6 in D version, Amendment 1)	Fungus; Cellulosic fiber (loose-fill)
	HH-I-515 4.8.9 in D version, Amendment 1)	Starch; Cellulosic fiber (loose-fill)

# NVLAP LAB CODE 0108

CERTIFIED TESTING LABORATORIES, INC. 1105 Riverbend Drive, P.O. Box 2041, Dalton, GA 30720 John H. Frank Phone: 404-226-1400

NVLAP Code	Designation	Short Title
03/C01 03/C02	AATCC 16E AATCC 8	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking
03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
07/00/	Sec. 1630.4	Test Procedure
03/F04 03/B02	ASTM E648 UM 44C Addenda 2 and 3	Radiant Panel (Carpet)
097802	UM 44C AUDENUA Z ANU 3	ALLACHED CUSHIDH JESUS

# OWENS-CORNING FIBERGLAS CORPORATION TECHNICAL CENTER LABORATORY P.O. Box 415, Route 16, Granville, OH 43023 William M. Edmunds Phone: 614-587-7024--For Insulation LAP Ron Moulder Phone: 614-587-7066--For Acoustics LAP

NVLAP Code	Designation	Short Title
(para) 01/CO2	ASTM C739 . 10.7 in 80 version) HH-I-515 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill) Corrosiveness; Cellulosic fiber (loose-fill)
01/D02 01/D03 (para. 01/D04 01/D05 (para. 01/D06	California Energy Commis	ssion tests for insulating materials: fiber blankets and loose-fill Sieve or screen analysis Thickness and density; Blanket and batt Thickness; Board (cellulosic fiber) Water absorption, 2 hour; Water absorption, 24 hour; Board (cellulosic fiber)
(para. 01/D07 01/D08 01/D09	by D1037 107-110 in 72 version) ASTM C272 ASTM C302 ASTM C303 ASTM C356	Density; Preformed block insulation Density; Preformed pipe insulation Density; Preformed block insulation Linear shrinkage; Soaking heat;
01/D12	ASTM C411	Preformed high temperature insulation Hot-surface performance; High temperature insulation
01/D13 01/D15	ASTM C519 ASTM D756	Density; Loose-fill (fibrous) Weight and shape changes; Accelerated
01/D16 01/D17	ASTM D756 ASTM D756	service (proc. A); Plastics Weight and shape changes; Accelerated service (proc. B); Plastics Weight and shape changes; Accelerated
01/D18	ASTM D1622	service (proc. E); Plastics Apparent density; Rigid cellular
01/D19	ASTM D2126	plastics Response to thermal and humid aging (proc. B); Rigid cellular plastics
01/D20	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D22 01/D23	ASTM D2126 ASTM D2842	Response to thermal and humid aging (proc. F); Rigid cellular plastics Water absorption; Rigid cellular
01/D25	ASTM C739 10.5 in 80 version) HH-I-515 4.8.3 in D version, Amendment 1)	plastics Moisture absorption; Cellulosic fiber (loose-fill) Moisture absorption; Cellulosic fiber (loose-fill)
01/D26 (para.	HH-I-515 4.8.1 in D version,	Settled density; Cellulosic fiber (loose-fill)
01/D27	Amendment 1) ASTM D2126	Response to thermal and humid aging
01/D28	ASTM D2126	(proc. C); Rigid cellular plastics Response to thermal and humid aging (proc. G); Rigid cellular plastics

01 / 07		
01/D29	California Energy Commi Installed compressed th	ission tests for insulating materials:
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a
01/F07	HH-I-515	Vertical Tube Furnace Critical radiant flux;
	4.8.7 in D version,	Radiant Panel (cellulosic fiber,
01/F08	Amendment 1) HH-I-515	loose-fill) Smoldering combustion;
	4.8.8 in D version,	Cellulosic fiber (loose-fill)
01/501	Amendment 1) ASTM C165	Compressive properties; Thermal
		insulation (proc. A)
01/502	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/503	ASTM C209	Transverse strength;
01/S04	9 in 72 version) ASTM C209	Board (cellulosic fiber) Deflection at specified load;
(para.	10 in 72 version)	Board (cellulosic fiber)
01/S05	ASTM C209 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)
01/506	ASTM C209	Tensile strenth; Perpendicular to
(para. 01/S07	12 in 72 version) ASTM C273	surface Shear test; Sandwich construction
01/508	ASTM C446	Breaking load/modulus of rupture;
01/509	ASTM D781	Preformed pipe insulation Puncture test; Paperboard and fiberboard
01/510	ASTM D828	Tensile breaking strength; Paper and
01/511	ASTM D1621	paperboard Compressive properties; Rigid cellular
01/T01	ASTM C177	plastics (proc. A-Crosshead) Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05 01/T06	ASTM C335 ASTM C518	Thermal conductivity; Pipe insulation Thermal transmission properties; Heat
		flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/V02 01/V03	TAPPI T419	Starch in paper; Qualitative test
01/ 405	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	HH-I-515	Fungus; Cellulosic fiber
(para.	4.8.6 in D version, Amendment 1)	(loose_fill)
01/V06	HH-I-515	Starch; Cellulosic fiber
(para.	4.8.9 in D version, Amendment 1)	(loose-fill)
08/P01	ASTM C367-78	Strength Properties, Prefabricated
08/P03	ASTM C423-84a	Architectural Acoustical Materials Sound Absorption and Sound Absorption
08/P04	ASTM C522-80	Coefficients Airflow Resistance of Acoustical
08/P05	ASTM C523-68 (81)	Materials Light Reflectance of Acoustical Materials
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of
08/P10	ANSI S1.31-80	Building Partitions Sound Power Levels, Broad-Band Noise
		Sources in Reverberation Rooms
		(100-10,000 Hz)

08/P13	ANSI \$1.32-80	Sound Power Levels, Discrete- Frequency and Narrow-Band Noise Sources in
		Reverberation Rooms (100-10,000 Hz)
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

# JIM WALTER RESEARCH CORPORATION 10301 9th Street North, St. Petersburg, FL 33702 John E. Sheridan Phone: 813-576-4171

Accreditation Renewal Date: January 1, 1987		
NVLAP Code	Designation	Short Title
(para. 01/D04 01/D05 (para.	ASTM C209 6 in 72 version) ASTM C209 ASTM C209 13 in 72 version) by D1037	Thickness; Board (cellulosic fiber) Water absorption, 2 hour; Water absorption, 24 hour; Board (cellulosic fiber)
01/D06 (para.	100-106 in 78 version) ASTM C209 14 in 72 version) by D1037	Linear expansion; Board (cellulosic fiber)
01/D07 01/D09	lÕ7-110 in 72 version) ASTM C272 ASTM C303 ASTM D2126	Water absorption; Core materials Density; Preformed block insulation Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/502	ASTM C203	Breaking load/flexural strength; Preformed block insulation
(para. 01/SO4 (para. 01/SO5	ASTM C209 9 in 72 version) ASTM C209 10 in 72 version) ASTM C209 11 in 72 version) ASTM C209	Transverse strength; Board (cellulosic fiber) Deflection at specified load; Board (cellulosic fiber) Tensile strength; Parallel to surface; Board (cellulosic fiber) Tensile strength; Per endicular to
(para. 01/S11	12 in 72 version) ASTM D1621	surface Compressive properties; Rigid cellular
01/T01	ASTM C177	plastics (proc. A-Crosshead) Thermal transmission properties;
01/T04 01/T05 01/T06	ASTM C236 ASTM C335 ASTM C518	Low-temperature guarded hot plate Thermal conductance; Guarded hot box Thermal conductivity; Pipe insulation Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
08/P02	ASTM C384-77(84)	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

#### DYNATECH R/D COMPANY THERMOPHYSICS LABORATORY 99 Erie Street, Cambridge, MA 02139 Andre O. Desjarlais Phone: 617-868-8050

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance: Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/106	ASTM C518	Thermal conductivitý; Pipe insulation Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0114

# SOUTHWEST RESEARCH INSTITUTE DEPARTMENT OF FIRE TECHNOLOGY 6220 Culebra Road, San Antonio, TX 78284 Carl A. Hafer Phone: 512-522-2409

# Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
03/F01 03/F03	ASTM E84 16 CFR Part 1630	Surface Flammability Surface Flammability
0571 05	(FF 1-70) Sec. 1630.4	Test Procedure
03/F04	ASTM E648	Radiant Panel (Carpet)

NVLAP LAB CODE 0115

FACTORY MUTUAL RESEARCH CORPORATION 1151 Boston-Providence Turnpike, Norwood, MA 02062 William F. Maroni Phone: 617-762-4300

NVLAP Code	Designation	Short Title
01/C02 (para.	HH-I-515 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
	HH-I-515 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26 (para.	HH-I-515 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07 (para.	HH-I-515 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)

01/F08	HH-I-515	Smoldering combustion;
(para.	4.8.8 in D version,	Cellulosic fiber (loose-fill)
	Amendment 1)	
03/F01	ASTM E84	Surface Flammability Radiant Panel (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

# UNDERWRITERS LABORATORIES INC. 333 Pfingsten Road, Northbrook, IL 60062 Steve Mazzoni Phone: 312-272-8800

ACCICUITATION	Cenewal Date. January I	, 1)0/
NVLAP Code	Designation	Short Title
01/C01 (para,	ASTM C739 10.7 in 80 version)	Corrosiveness; Cellulosic fiber (loose-fill)
01/C02	HH-I-515 4.8.5 in D version,	Corrosiveness; Cellulosic fiber (loose-fill)
01/D01	Amendment 1) ASTM C136	Sieve or screen analysis
01/D02 01/D03	ASTM C167 ASTM C209	Thickness and density; Blanket and batt Thickness;
(para. 01/D04	6 in 72 version) ASTM C209	Board (cellulosic fiber) Water absorption, 2 hour;
01/005	ASTM C209 13 in 72 version)	Water absorption, 24 hour; Board (cellulosic fiber)
	by D1037 100–106 in 78 version)	
01/D06	ASTM C209 14 in 72 version)	Linear expansion; Board (cellulosic fiber)
·	by D1037 107–110 in 72 version)	
01/D08 01/D09	ASTM C302 ASTM C303	Density; Preformed pipe insulation Density; Preformed block insulation
01/D13 01/D14	ASTM C519 ASTM C520	Density; Loose-fill (fibrous) Density; Granular loose-fill
	ASTM D1622	Apparent density; Rigid cellular plastics
01/D24 (para.	ASTM C739 10.5 in 80 version)	Moisture absorption; Cellulosic fiber (loose-fill)
01/D25 (para.	HH-I-515 4.8.3 in D version,	Moisture absorption; Cellulosic fiber (loose-fill)
01/D26	Amendment 1) HH-I-515 4.8.1 in D version,	Settled density; Cellulosic fiber (loose-fill)
(para.	Amendment 1) ASTM E84	Surface burning characteristics;
01/F06	ASTM C739	Building materials Flame resistance permanency;
	10.4 in 80 version) HH-I-515	Cellulosic fiber (loose-fill) Critical radiant flux;
	4.8.7 in D version, Amendment 1)	Radiant Panel (cellulosic fiber, loose-fill)
01/F08 (para.	HH-I-515 4.8.8 in D version,	Smoldering combustion; Cellulosic fiber (loose-fill)
01/502	Amendment 1) ASTM C203	Breaking load/flexural strength;
01/S03	ASTM C209 9 in 72 version)	Preformed block insulation Transverse strength; Board (cellulosic fiber)
01/504	ASTM C209 10 in 72 version)	Deflection at specified load; Board (cellulosic fiber)
01/\$05	ASTM C209 11 in 72 version)	Tensile strength; Parallel to surface; Board (cellulosic fiber)

01/506	ASTM 0209	Tensile strength; Perpendicular to
01/300 (nara.	12 in 72 version)	surface
01/508	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S11	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)
01/v02	TAPPI T419	Starch in paper; Qualitative test
01/03	ASTM D2020	Mildew (fungus) resistance; Paper and paperboard
01/V05	HH-I-515	Fungus; Cellulosic fiber
(para.	4.8.6 in D version, Amendment 1)	(loose-fill)
01/V06		Starch; Cellulosic fiber
(para.	4.8.9 in D version, Amendment 1)	(loose-fill)

# PHYSICAL/FIRE TEST GROUP (04/F00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15

# Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

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# MOBILE HOME TEST GROUP (04/M00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

# Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

04/M04	Test Installation	12
04/M05	Toxic Gas	12
04/M06	Drop Test	12

# ELECTRICAL TEST GROUP (04/E00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	33 34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	37 39
04/E08	Power Cord Strain Relief	40	40
		Section of CSA	Section of CSA

		C 22.2 No. 3 1979	C 22. 2 No. 113 1982
04/E09	Temperat re Measurements, Electrical Components	6.4	6.2
04/E10	Temperature Test, Electrical Components	6.4	6.2
04/E11	Leakage Current	6.8	6.3
04/E12	Dielectric Withstand	6.5	6.3
04/E13	Power Cord Strain Relief	6.9	6.4

# NVLAP LAB CODE 0117

# UNDERWRITERS LABORATORIES INC. SANTA CLARA, CALIFORNIA LABORATORY 1655 Scott Boulevard, Santa Clara, CA 95050 Douglas Anderson Phone: 408-985-2400

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

# PHYSICAL/FIRE TEST GROUP (04/F00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02 04/F04	Temperature Measurement Radiant Fire Test	9 11	9 11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15

Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

04/Fl1 Test Installation	7.2
04/Fl2 Temperature Measurement	7.3
04/Fl4 Radiant Fire Test	7.5
04/Fl6 Brand Fire Test	7.6
04/Fl7 Flash Fire Test	7.7
04/Fl8 Strength Tests	7.12
04/Fl9 Stability Test	7.10
04/F20 Glazing Test	7.11

# MOBILE HOME TEST GROUP (04/MOO)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	Sec	tion of CSA Standard B 366 (ULC s627-M1984) (April, 1984)	.2-M1984
04/M04	Test Installation	12	
04/M05	Toxic Gas	12	
04/M06	Drop Test	12	

Toxic Gas	12
Drop Test	12

# ELECTRICAL TEST GROUP (04/E00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

		Section of CSA C 22.2 No. 3 1979	Section of CSA C 22. 2 No. 113 1982
04/E09	Temperature Measurements, Electrical Components	6.4	6.2
04/E10	Temperature Test, Electrical Components	6.4	6.2
04/E11	Leakage Current	6.8	6.3
04/E12	Dielectric Withstand	6.5	6.3
04/E13	Power Cord Strain Relief	6.9	6.4

COMMERCIAL TESTING COMPANY 1215 South Hamilton Street, P.O. Box 985, Dalton, GA 30720 Jonathan Jackson Phone: 404-278-3935

NVLAP Code	Designation	Short Title
	HH-I-515 4.8.5 in D version, Amendment 1)	Corrosiveness; Cellulosic fiber (loose-fill)
01/D25 (para.	HH-I-515 4.8.3 in D version, Amendment 1)	Moisture absorption; Cellulosic fiber (loose-fill)
	HH-I-515 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
01/F07 (para.	HH-I-515 4.8.7 in D version, Amendment 1)	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
	HH-I-515 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02 03/S01	DDD-C-95A ASTM D1335 Federal Test Method	Shrinkage Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F01 03/F03	ASTM E84 16 CFR Part 1630 (FF 1-70)	Surface Flammability Surface Flammability
03/F04 03/B02	Sec. 1630.4 ASTM E648 UM 44C Addenda 2 and 3	Test Procedure Radiant Panel (Carpet) Attached Cushion Tests

SPARRELL ENGINEERING RESEARCH CORPORATION Bristol Road, P.O. Box 130, Damariscotta, ME 04543 James K. Sparrell Phone: 207-563-3224

Accreditation Renewal Date: January 1, 1987

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

NVLAP LAB CODE 0123

MANVILLE CORPORATION, R & D CENTER P.O. Box 5108, Denver, CO 80217 Joseph P. Ferraro Phone: 303-978-5553

Accreditation	Renewal Date: January 1	, 1987
NVLAP Code	Designation	Short Title
(para. 01/D04 01/D05 (para.	ASTM C167 ASTM C209 6 in 72 version) ASTM C209 ASTM C209 13 in 72 version) by D1037	Thickness and density; Blanket and batt Thickness; Board (cellulosic fiber) Water absorption, 2 hour; Water absorption, 24 hour; Board (cellulosic fiber)
01/D06 (para.	100-106 in 78 version) ASTM C209 14 in 72 version) by D1037	Linear expansion; Board (cell losic fiber)
01/D08 01/D09	107-110 in 72 version) ASTM C302 ASTM C303 ASTM C356	Density; Preformed pipe insulation Density; Preformed block insulation Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13 01/F01 01/F02	ASTM C519 TAPPI T461 ASTM E84	Density; Loose-fill (fibrous) Flame Resistance; Paper and paperboard Surface burning characteristics;
01/F05	ASTM E136	Building materials Behavior of Materials in a Vertical Tube Furnace
01/501	ASTM C165	Compressive properties; Thermal
01/502	ASTM C203	insulation (proc. A) Breaking load/flexural strength; Preformed block insulation
(para. 01/504	ASTM C209 9 in 72 version) ASTM C209	Transverse strength; Board (cellulosic fiber) Deflection at specified load;
01/\$05	10 in 72 version) ASTM C209	Board (cellulosic fiber) Tensile strength; Parallel to surface;
01/\$06	11 in 72 version) ASTM C209	Board (cellulosic fiber) Tensile strength; Perpendicular to
	12 in 72 version) ASTM C446	surface Breaking load/modulus of rupture;
	ASTM D781 ASTM D828	Preformed pipe insulation Puncture test; Paperboard and fiberboard Tensile reaking strength; Paper and paperboard

01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T05	ASTM C335	Thermal conductivity; Pipe insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Rec.
		Practice); Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec.
		Practice); Loose-fill (fibrous)
01/V04	ASTM E96	Water vapor transmission; Thin sheets
		(proc. A)
08/P02	ASTM C384-77(84)	Impedance and Absorption of Acoustical Materials
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption
		Coefficients
08/P04	ASTM C522-80	Airflow Resistance of Acoustical Materials
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions

# OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY Box 89, 960 Central Expressway, Santa Clara, CA 95052 J.P. Tetreault Phone: 408-727-3535

# Accreditation Renewal Date: January 1, 1987

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

# NVLAP LAB CODE 0125

# OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY 700 McLaren Road, Fairburn, GA 30213 C. J. Jackson Phone: 404-969-2915

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

# OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY 300 Sunshine Road, Kansas City, KS 66115 C.E. Husmann Phone: 913-281-2811

Accreditation Renewal Date: January 1, 1987

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

NVLAP LAB CODE 0127

#### OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY Box 8, Davis & Shreeve Roads, Barrington, NJ 08007 P. Kosha Phone: 609-547-9200

Accreditation Renewal Date: January 1, 1987

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

#### NVLAP LAB CODE 0128

OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY P.O. Box 89, Delmar, NY 12054 Mark P. Arnold Phone: 518-439-9341

Accreditation Renewal Date: January 1, 1987

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

NVLAP LAB CODE 0129

OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY Case Avenue, Newark, OH 43055 P. D. Shull Phone: 614-345-3441

NVLAP Code	Designation	Short Title
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation

# OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY P.O. Box 837, I-35 East, Waxahachie, TX 75165 Mark Kwasowski Phone: 214-937-1340

# Accreditation Renewal Date: January 1, 1987

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

NVLAP LAB CODE 0131

THE H. C. NUTTING COMPANY 4120 Airport Road, P.O. Box C, Cincinnati, OH 45226 James T. Larbes Phone: 513-321-5816

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0133

# THE WALT KEELER COMPANY, INC. 826 East Lincoln Street, P.O. Box 197, Wichita, KS 67201 Kelly B. Callison Phone: 316-265-0615

Accreditation	Renewal Date:	January 1, 1987
NVLAP Code	Designation	Short Title
02/M01 02/M03 02/P01 02/W01	ASTM C31 ASTM C172 ASTM C143 ASTM C138	Making and Curing Concrete Test Specimens in the Field Sampling Fresh Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) of Concrete

02/A01	ASTM C231	Air Content of Freshly Mixed Concrete
		by the Pressure Method
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete
		by the Volumetric Method

# AGUIRRE ENGINEERS, INC. 13276 East Fremont Place, P.O. Box 3014, Englewood, CO 80155 Jeffrey C. Olson Phone: 303-799-8378

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0136

CONTRACTORS SUPPLY CORPORATION OF WEST VIRGINIA, INC. P.O. Box 6587, 24th & Water, Wheeling, WV 26003 Anthony A. Gulo Phone: 304-232-1048

Accreditation	Renewal Date:	January 1, 1987
NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

NVLAP LAB CODE 0137

CONSTRUCTION TECHNOLOGY LABORATORIES A DIVISION OF PORTLAND CEMENT ASSOCIATION 5420 Old Orchard Road, Skokie, IL 60077 Ronald G. Burg Phone: 312-965-7500

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

#### AMERICAN CARPET LABORATORIES, INC. 111 West Nashville Street, P.O. Box 357, Ringgold, GA 30736 Michael D. Connell Phone: 404-935-5672

# Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02 03/S01	DDD-C-95A ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Shrinkage Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Surface Flammability Test Procedure
03/F04 03/B02	ASTM E648 UM 44C Addenda 2 and 3	Radiant Panel (Carpet)

NVLAP LAB CODE 0141

# GENSTAR STONE PRODUCTS COMPANY WHITE MARSH TECHNICAL CENTER 10300 Pulaski Highway, White Marsh, MD 21162 Robert L. Chester Phone: 301-628-4000

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

02/501	ASTM C39	Compressive Strength of Cylindrical
		Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete
		by the Volumetric Method

#### GEOSCIENCE LTD. 410 South Cedros Avenue, Solana Beach, CA 92075 Heinz F. Poppendiek Phone: 619-755-9396

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/D08 01/F05	ASTM C302 ASTM E136	Density; Preformed pipe insulation Behavior of Materials in a Vertical Tube Furnace
01/T01	ASTM C177	Thermal transmission properties;
01/T04	ASTM C236	Low-temperature guarded hot plate Thermal conductance; Guarded hot box

NVLAP LAB CODE 0143

#### KELSO INDUSTRIES, INC. QUALITY CONTROL LABORATORY P.O. Box 659, Galveston, TX 77553 Chris G. Slate Phone: 713-744-5341

Accreditation	Renewal Date: January 1	, 1987
NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

#### NVLAP LAB CODE 0146

AMERICAN TESTING LABORATORIES, INC. Box 4014, 784 Flory Mill Road, Lancaster, PA 17604 John S. Kassees Phone: 717-569-0488

Accreditation Renewal Date: April 1, 1986

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

02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

E & B CARPET MILLS 1020 Riverbend Drive, P.O. Box 2047, Dalton, GA 30720 Robert H. Davis Phone: 404-278-3197

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335 Federal Test Method	Tuft Bind of Floor Coverings
07/207	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
	Sec. 1630.4	Test Procedure

NVLAP LAB CODE 0151

HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION P.O. Box 2789, 1825 Faraday Drive, Reston, VA 22090 William J. Groah Phone: 703-435-2900

NVLAP Code	Designation	Short Title
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F07	HH-I-515	Critical radiant flux; Radiant Panel (cellulosic fiber,
(para.	Amendment 1)	loose-fill)
03/F01	ASTM E84	Surface Flammability Radiant Panel (Carpet)
03/F04	ASTM E648	Radiant Panel (Carpet)

# THE ARUNDEL CORPORATION GREENSPRING LABORATORY 6806 Greenspring Avenue, Baltimore, MD 21209 David Wherley Phone: 301-296-6400

Accreditation Renewal Date: January 1, 1987

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NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0156

BIGELOW-SANFORD, INC. GEORGIA RUG MILL Lyerly Street, Summerville, GA 30747 Van A. Pullen Phone: 404-857-2421

Accreditation	Renewal Date: January 1	, 1987
NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335 Federal Test Method Standard 191–5100 191–5950	Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
03/B01	Sec. 1630.4 UM 44C Addendum 3	Test Procedure Attached Cushion Tests

#### NVLAP LAB CODE 0160

CHISHOLM TRAIL TESTING AND ENGINEERING COMPANY, INC-302 South Miller Street, Decatur, TX 76234 James F. Rosendahl Phone: 817-627-5216

NVLAP Code	Designation	Short Title
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking

03/D01	ASTM D418	Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9)
		Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335	Tuft Bind of Floor Coverings
	Federal Test Method Standard 191-5100	Textile Test Method - Breaking Strength
	191-5950	Textile Test Method - Delamination
03/F03	16 CFR Part 1630	Surface Flammability
	(FF 1-70)	
	Sec. 1630.4	Test Procedure

GALAXY CARPET MILLS, INC. GALAXY TESTING LABORATORY P.O. Box 800, Industrial Blvd., Chatsworth, GA 30705 Lou Childers Phone: 404-695-9611

# Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335 Federal Test Method	Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
03/B02	Sec. 1630.4 UM 44C Addenda 2 and 3	Test Procedure Attached Cushion Tests

#### NVLAP LAB CODE 0166

INDEPENDENT TEXTILE TESTING SERVICE, INC. P.O. Box 1948, 1503 Murray Avenue, Dalton, GA 30722 Harry M. Fry Phone: 404-278-3013

Accreditation	Renewal Date: January 1	, 1987
NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02 03/S01	DDD-C-95A ASTM D1335 Federal Test Method Standard 191-5100 191-5950	Shrinkage Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength Textile Test Method - Delamination

03/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	16 CFR Part 1630	Surface Flammability
03/F04 03/B02	(FF 1-70) Sec. 1630.4 ASTM E648 UM 44C Addenda 2 and 3	Test Procedure Radiant Panel (Carpet) Attached Cushion Tests

# DOW CHEMICAL U.S.A NORTH HAVEN LABORATORIES 410 Sackett Point Road, P.O. Box 430, North Haven, CT 06473 Herbert G. Nadeau Phone: 203-281-2762

Accreditation Renewal Date: October 1, 1986

NVLAP Code	Designation	Short Title
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E): Rigid cellular plastics
01/D28	ASTM D2126	(proc. E); Rigid cellular plastics Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0176

# W. R. GRACE & COMPANY CONSTRUCTION PRODUCTS DIVISION 62 Whittemore Avenue, Cambridge, MA 02140 Matt A. Jabbari Phone: 617-876-1400

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

ATLANTIC TESTING LABORATORIES, LIMITED CICERO DIVISION P.O. Box 356, Route 31 at Route 81, Cicero, NY 13039 Robert van der Horst Phone: 315-699-5281

# Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0178

BIGELOW-SANFORD, INC. TECHNICAL SERVICES P.O. Box 3089, Greenville, SC 29602 Hamir D. Merchant Phone: 803-299-2630

Accreditation Renewal Date: January 1, 1987

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NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11)
03/D02 03/ S01	DDD-C-95A ASTM D1335 Federal Test Method Standard 191-5100	Tuft Height - (Section 13) Shrinkage Tuft Bind of Floor Coverings Textile Test Method - Breaking Strength
03/E01 03/F03	191-5950 AATCC 134/CRI 102 16 CFR Part 1630 (FF 1-70)	Textile Test Method - Delamination Electrostatic Propensity of Carpets Surface Flammability
03/F04 03/B01	Sec. 1630.4 ASTM E648 UM 44C Addendum 3	Test Procedure Radiant Panel (Carpet) Attached Cushion Tests

#### A & H/FLOOD ENGINEERING DIVISION, P.S.I., INC. 4421 Harrison Street, Hillside, IL 60162 Paul E. Flood Phone: 312-449-0500

Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0188

TWIN CITY TESTING AND ENGINEERING LABORATORY, INC. 662 Cromwell Avenue, St. Paul, MN 55114 Richard Stehly Phone: 612-645-3601

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/T04 02/M01	ASTM C236 ASTM C31	Thermal conductance; Guarded hot box Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0190

#### CORONET CARPETS CORONET INDUSTRIES P.O. Box 1248, Cleveland Drive, Dalton, GA 30720 Winfred L. Jones Phone: 404-259-4511

NVLAP Code	Designation	Short Title
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking

03/D01	ASTM D418	Pile Yarn Floor Co ering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335 Federal Test Method	Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
	Sec. 1630.4	Test Procedure

# STS CONSULTANTS, LTD. 111 Pfingsten Road, Northbrook, IL 60062 Michael T. Russell Phone: 312-272-6520

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

#### NVLAP LAB CODE 0192

SMITH-EMERY COMPANY 781 East Washington Boulevard, Los Angeles, CA 90021 George E. Battey, Jr. Phone: 213-749-3411

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

#### SHAW INDUSTRIES, INC. Plant #4, S. Hamilton St. Ext., P.O. Drawer 2128, Dalton, GA 30720 Carey Mitchell Phone: 404-278-3812

Accreditation Renewal Date: Jan ary 1, 1987

NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335 Federal Test Method	Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Stren th Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
	Sec. 1630.4	Test Procedure

NVLAP LAB CODE 0195

GARCO TESTING LABORATORIES 532 West 3560 South, Salt Lake City, UT 84107 Douglas L. Watson Phone: 801-266-4498

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0196

TEXAS TESTING LABORATORIES, INC. 1526 South Good-Latimer Expressway, P.O. Box 2144, Dallas, TX 75221 George W. Pluto Phone: 214-428-7481

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

02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Co- ressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

# WORLD CARPETS QUALITY CONTROL PHYSICAL TESTING One World Plaza, Dalton, GA 30720 Wayne Murdock Phone: 404-278-8000

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/D02	DDD-C-95A	Shrinkage
03/501	ASTM D1335 Federal Test Method	Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
	Sec. 1630.4	Test Procedure

NVLAP LAB CODE 0201

PITTSBURGH TESTING LABORATORY 850 Poplar Street, Pittsburgh, PA 15220 William H. Levelius Phone: 412-922-4000

Accreditation Renewal Date: October 1, 1986

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

#### CAL MAT CO. CONROCK DIVISION TESTING LABORATORY P.O. Box 2950, Terminal Annex, Los Angeles, CA 90051 James Neal Van Nest Phone: 213-258-2777

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0206

R. W. SIDLEY, INC. QUALITY CONTROL LABORATORY 6900 Madison Road, Thompson, OH 44086 James R. Cannizzaro Phone: 216-298-3232

# Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

#### NVLAP LAB CODE 0208

GULF COAST TESTING LABORATORY, INC. 1205 North Tancahua Street, Corpus Christi, TX 78401 Doyne Reynolds Phone: 512-882-5411

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

02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

# INSTA-FDAM PRODUCTS, INC. 1500 Cedarwood Drive, Joliet, IL 60435 Greg Luegering Phone: 815-741-6819

# Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/015	ASTM D756	Weight and shape changes; Accelerated service (proc. A); Plastics
01/016	ASTM D756	Weight and shape changes; Accelerated service (proc. B); Plastics
01/017	ASTM D756	Weight and shape changes; Accelerated service (proc. E); Plastics
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/020	ASTM D2126	Response to thermal and humid aging (proc. D); Rigid cellular plastics
01/022	ASTM D2126	Response to thermal and humid aging (proc. F); Rigid cell lar plastics
01/D23	ASTM D2842	Water absorption; Rigid cellular plastics
01/027	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cell lar plastics
01/D28	ASTM D2126	Response to thermal and humid aging (proc. G); Rigid cellular plastics
01/511	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

# NVLAP LAB CODE 0215

# CONSTRUCTION MATERIALS CONSULTANTS, INC. 1000 West Fillmore Street, Colorado Springs, CO 80907 Ivan A. Vanaken Phone: 303-632-2588

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

UNITED STATES GYPSUM COMPANY, RESEARCH CENTER 700 North Highway 45, Libertyville, IL 60048 William F. Porter Phone: 312-362-9797

Accreditation Renewal Date: July 1, 1986

NVLAP Code	Designation	Short Title
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

#### NVLAP LAB CODE 0218

#### APACHE BUILDING PRODUCTS COMPANY 2025 East Linden Avenue, Linden, NJ 07036 Dennis W. Rosato Phone: 201-486-6723

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Accreditation Renewal Date: October 1, 1986

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NVLAP Code	Designation	Short Title
01/D18	ASTM D1622	Apparent density; Rigid cellular plastics
01/D21	ASTM D2126	Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/511	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0220

# STRATTON LABORATORIES Highway 61, South, P.O. Box 1007, Cartersville, GA 30120 Jack R. Kilgore Phone: 404-382-9350

Accreditation Renewal Date: October 1, 1986

NVLAP Code	Designation	Short Title
03/501	ASTM D1335 Federal Test Method	Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
03/F04	Sec. 1630.4 ASTM E648	Test Procedure Radiant Panel (Carpet)
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SALEM CARPET LABORATORY P.O. Box 10, Chatsworth, GA 30736 Michael A. Corbin Phone: 404-935-2241

Accreditation Renewal Date: J.ly 1, 1986

NVLAP Code	Designation	Short Title
03/C01 03/C02 03/D01	AATCC 16E AATCC 8 ASTM D418	Colorfastness to Light (Xenon Arc) Colorfastness to Crocking Pile Yarn Floor Covering Construction Pile Weight - Uncoated (Section 8) Pile Weight - Coated (Section 9) Pile Thickness - (Sections 10 & 11) Tuft Height - (Section 13)
03/002	DDD-C-95A	Shrinkage
03/501	ASTM D1335 Federal Test Method	Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
03/F04	Sec. 1630.4 ASTM E648	Test Procedure Radiant Panel (Carpet)

NVLAP LAB CODE 0223

# PFS CORPORATION 2402 Daniels Street, Madison, WI 53704 Ed Starostovic Phone: 608-221-3361

NVLAP Code	Short Title	Section of UL 737 5th Edition (March 1, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
	PHYSICAL/FIRE TEST GROUP	(04/F00)	
04/F01 04/F02 04/F04 04/F05 04/F06 04/F07 04/F08 04/F09 04/F10	Test Installation Temperature Measurement Radiant Fire Test Coal Fire Test Brand Fire Test Flash Fire Test Strength Tests Stability Test Glazing Test	8 9 11 12 13 15 16 14	8 9 11 14 12 13 16 16 16 15
	MOBILE HOME TEST GROUP (04	4/MOO)	
04/M01 04/M02 04/M03	Test Installation Toxic Gas Drop Test	17 17 17	17 17 17
	ELECTRICAL TEST GROUP (04)	<u>(E00</u> )	
04/E01 04/E02	Test Voltages Temperature Measurements, Electrical Components	33 34	33 34
04/E03	Input Test	35	35

04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

# ARNOLD GREENE TESTING LABORATORIES A DIVISION OF CONAM INSPECTION 2 Millbury Street, Auburn, MA 01501 Robert J. Halliday Phone: 617-235-7330

NVLAP Code	Short Title PHYSICAL/FIRE TEST GROUP (	Section of UL 737 5th Edition (March 1, 1982) 04/F00)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01 04/F02 04/F05 04/F05 04/F06 04/F07 04/F08 04/F09 04/F10	Test Installation Temperature Measurement Radiant Fire Test Coal Fire Test Brand Fire Test Flash Fire Test Strength Tests Stability Test Glazing Test	8 9 11 12 13 15 16 14	8 9 11 14 12 13 16 16 16 15
04/M01 04/M02 04/M03	MOBILE HOME TEST GROUP (04 Test Installation To ic Gas Drop Test ELECTRICAL TEST GROUP (04/	17 17 17 17	17 . 17 . 17
04/E01 04/E02 04/E03 04/E04 04/E05 04/E05 04/E07	Test Voltages Temperature Measurements, Electrical Components Input Test Temperature Test, Electrical Components Leakage Current Dielectric Withstand Locked Rotor (Stalled Motor) Temperature	33 34 35 36 38 37 39	33 34 35 36 38 37 39
04/E08	Power Cord Strain Relief	40	40

WISS, JANNEY, ELSTNER ASSOCIATES, INC. 330 Pfingsten Road, Northbrook, IL 60062 Jerry G. Stockbridge Phone: 312-272-7400

Accreditation Renewal Date: July 1, 1986

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

# NVLAP LAB CODE 0227

RIVERBANK ACOUSTICAL LABORATORIES P.O.Box 189, 1512 Batavia Avenue, Geneva, IL 60134 John W. Kopec Phone: 312-232-0104

# Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P05	ASTM C523-68 (81)	Light Reflectance of Acoustical Materials
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions
08/P07	ASTM E492-82	Impact Sound Transmission Through Floor-Ceiling Assemblies
08/P10	ANSI 51.31-80	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (100-10,000 Hz)
08/P17	ISO 3741-75	Sound Power Levels, Broad-Band Sources in Re erberation Rooms (100-10,000 Hz)
08/E01	ANSI B71.1-80 (para. 9 and 21)	Sound Level Tests; Power Lawn Mowers, Lawn and Garden Tractors and Lawn Tractors

# NVLAP LAB CODE 0228

#### ARMSTRONG WORLD INDUSTRIES TECHNICAL CENTER, ACOUSTICS LABORATORY 2500 Columbia Avenue, P.O.Box 3511, Lancaster, PA 17604 G. Robert Spalding Phone: 717-397-0611

NVLAP Code	Designation	Short Title
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P07	ANSI/ASTM E492-82	Impact Sound Transmission Through Floor-Ceiling Assemblies

GOLD BOND BUILDING PRODUCTS A NATIONAL GYPSUM DIVISION, RESEARCH CENTER 1650 Military Road, Buffalo, NY 14217 Joseph Volk Phone: 716-873-9750

Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions
08/E21	AMA-1-II-67	Ceiling Sound Transmission Test by Two-Room Method

NVLAP LAB CODE 0230

# VIRGINIA CONCRETE LABORATORY 6555 Edsall Road, Box 666, Springfield, VA 22150 Richard A. Buckelew Phone: 703-354-7100

Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/₩01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Co ⁻ ressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

RITCHIE LABORATORIES 1820 North Mosley, P.O. Box 4048, Wichita, KS 67204 Donald J. Brockel Phone: 316-263-9937

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0233

STS CONSULTANTS, LTD. FAIRFAX VA OFFICE 2929-C Eskridge Road, Fairfax, VA 22031 Charles L. Hargest Phone: 703-698-5300

Accreditation Renewal Date: October 1, 1986

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

NVLAP LAB CODE 0235

PACIFIC INSPECTION AND RESEARCH LABORATORY, INC. 4076 148th Avenue North East, Redmond, WA 98052 Ronald J. Weisel Phone: 206-881-7668

Accreditation Renewal Date: October 1, 1986

PHYSICAL/FIRE TEST GROUP

		Section of UL 737 5th Edition	Section of UL 1482 2nd Edition
NVLAP Code	Short Title	(November 9, 1982)	(January 24, 1983)
04/F01 04/F02 04/F04 04/F05 04/F06 04/F07 04/F08 04/F09 04/F10	Test Installation Temperature Measurement Radiant Fire Test Coal Fire Test Brand Fire Test Flash Fire Test Strength Tests Stability Test Glazing Test	8 9 11 12 13 15 16 14	8 9 11 14 12 13 16 16 16 15
	Section	of CSA Standard B 366 (ULC s627-M1984) (April, 1984)	5.2-M1984
04/F11 04/F12 04/F14 04/F16 04/F17 04/F18 04/F19 04/F20	Test Installation Temperature Measurement Radiant Fire Test Brand Fire Test Flash Fire Test Strength Tests Stability Test Glazing Test	7.2 7.3 7.5 7.6 7.7 7.12 7.10 7.11	
	MOBILE HOME TEST GROUP		
NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01 04/M02 04/M03	Test Installation Toxic Gas Drop Test	17 17 17	17 17 17
04/M02	Toxic Gas Drop Test	17	17 17
04/M02	Toxic Gas Drop Test	17 17 of CSA Standard B 366 (ULC s627-M1984)	17 17
04/M02 04/M03 04/M04 04/M05	Toxic Gas Drop Test Section Test Installation Toxic Gas	17 17 of CSA Standard B 366 (ULC s627-M1984) <u>(April, 1984)</u> 12 12	17 17
04/M02 04/M03 04/M04 04/M05	Toxic Gas Drop Test Section Test Installation Toxic Gas Drop Test	17 17 of CSA Standard B 366 (ULC s627-M1984) <u>(April, 1984)</u> 12 12	17 17
04/M02 04/M03 04/M04 04/M05 04/M06	Toxic Gas Drop Test Section Test Installation Toxic Gas Drop Test <u>ELECTRICAL TEST GROUP</u> <u>Short Title</u> Test Voltages Temperature Measurements,	17 17 of CSA Standard B 366 (ULC s627-M1984) (April, 1984) 12 12 12 12 5ection of UL 737 5th Edition	17 17 5.2-M1984 Section of UL 1482 2nd Edition
04/M02 04/M03 04/M04 04/M05 04/M06 <u>NVLAP Code</u> 04/E01	Toxic Gas Drop Test Section Test Installation Toxic Gas Drop Test <u>ELECTRICAL TEST GROUP</u> <u>Short Title</u> Test Voltages	17 17 of CSA Standard B 366 (ULC s627-M1984) (April, 1984) 12 12 12 12 Section of UL 737 5th Edition (November 9, 1982) 33	17 17 5.2-M1984 Section of UL 1482 2nd Edition (January 24, 1983) 33
04/M02 04/M03 04/M05 04/M06 <u>NVLAP Code</u> 04/E01 04/E02 04/E03	Toxic Gas Drop Test Section Test Installation Toxic Gas Drop Test <u>ELECTRICAL TEST GROUP</u> <u>Short Title</u> Test Voltages Temperature Measurements, Electrical Components Input Test Temperature Test,	17 17 of CSA Standard B 366 (ULC s627-M1984) (April, 1984) 12 12 12 12 12 12 33 34 35	17 17 5.2-M1984 Section of UL 1482 2nd Edition (January 24, 1983) 33 34 35

		Section of CSA C 22.2 No. 3 1979	Section of CSA C 22. 2 No. 113 1982
04/E09	Temperature Measurements, Electrical Components	6.2	6.4
04/E10	Temperature Test, Electrical Components	6.2	6.4
04/E11	Leakage Current		6.8
04/E12 04/E13	Dielectric Withstand Power Cord Strain Relief	6.3 6.4	6.5 6.9

## PITTSBURGH TESTING LABORATORY SYRACUSE NY PLANT LABORATORY 6159 East Mallory Road, Syracuse, NY 13057 W.J. Peters Phone: 315-437-7043

Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03	ASTM C172	Sampling Fresh Concrete
02/P01	ASTM C143	Slump of Portland Cement Concrete
02/W01	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric) of Concrete
02/A01	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

NVLAP LAB CODE 0239

## HUFCOR ACOUSTICAL LABORATORY HOUGH MANUFACTURING CORP. P.O. Box 591, 1205 Norwood Road, Janesville, WI 53547 Stanley Kowalczyk Phone: 608-756-1241

Accreditation Renewal Date: October 1, 1986

NVLAP Code	Designation	Short Title
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions

## OMNI ENVIRONMENTAL SERVICES, INC. SOLID FUELS TESTING LAB 10950 SW 5th Street, Suite 160, Beaverton, OR 97005 Raymond W. Downey Phone: 503-643-3755

## Accreditation Renewal Date: January 1, 1987

## PHYSICAL/FIRE TEST GROUP (04/F00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15

# Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

7.2 7.3 7.5 7.6 7.7 7.12 7.10 7.11

04/F11	Test Installation
04/F12	Temperature Measurement
04/F14	Radiant Fire Test
04/F16	Brand Fire Test
04/F17	Flash Fire Test
04/F18	Strength Tests
04/F19	Stability Test
04/F20	Glazing Test

## MOBILE HOME TEST GROUP (04/MOO)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	Sec	ction of CSA Standard B 366 (ULC s627-M1984) (April, 1984)	5.2-M1984
04/M04	Test Installation	12	
04/M05	Toxic Gas	12	
04/M06	Drop Test	12	

### ELECTRICAL TEST GROUP (04/E00)

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01 04/E02	Test Voltages Temperature Measurements, Electrical Components	33 34	33 34
04/E03 04/E04	Input Test Temperature Test, Electrical Components	35 36	35 36
04/E05 04/E06 04/E07	Leakage Current Dielectric Withstand Locked Rotor (Stalled	38 37 39	38 37 39
04/E08	Motor) Temperature Power Cord Strain Relief	40	40
		Section of CSA C 22.2 No. 3 1979	Section of CSA C 22. 2 No. 113 1982
04/E09	Temperature Measurements, Electrical Components	6.4	6.2
04/E10	Temperature Test, Electrical Components	6.4	6.2
04/Ell 04/El2 04/El3	Leakage Current Dielectric Withstand Power Cord Strain Relief	6.8 6.5 6.9	6.3 6.3 6.4

### NVLAP LAB CODE 0241

UNITED STATES TESTING COMPANY, INC. UNITECH SERVICES GROUP-WESTERN DIVISION 3536 Oakdale Road, Modesto, CA 95355 Larry Weigel Phone: 209-527-2271

Accreditation	Renewal Date:	January 1, 1987
NVLAP Code	Designation	Short Title
02/M01	ASTM C31	Making and Curing Concrete Test Specimens in the Field
02/M03 02/P01 02/W01	ASTM C172 ASTM C143 ASTM C138	Sampling Fresh Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content
02/A01	ASTM C231	(Gravimetric) of Concrete Air Content of Freshly Mixed Concrete by the Pressure Method
02/501	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C173	Air Content of Freshly Mixed Concrete by the Volumetric Method

### CUSTOM COATING, INC. 204 West Industrial Blvd., Dalton, GA 30720 Mike Calhoun Phone: 404-277-3778

Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
	Sec. 1630.4	Test Procedure

## NVLAP LAB CODE 0244

NORTHWEST TESTING LABORATORIES, INC. P.O. Box 17126, Portland, OR 97217 Don Cave Phone: 503-282-0708

.

Accreditation Renewal Date: January 1, 1987

NVLAP Code	Short Title	Section of UL 737 5th Edition (March 1, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
	PHYSICAL/FIRE TEST GROUP	(04/F00)	
04/F01 04/F02 04/F04	Test Installation Temperature Measurement Radiant Fire Test	8 9 11	8 9 11
04/F05 04/F06 04/F07 04/F08	Coal Fire Test Brand Fire Test Flash Fire Test Strength Tests	12 13 15	14 12 13 16
04/F09 04/F10	Stability Test Glazing Test	16 14	16 15
	MOBILE HOME TEST GROUP (04	4/MOO)	
04/M01 04/M02 04/M03	Test Installation Toxic Gas Drop Test	17 17 17	17 17 17
	ELECTRICAL TEST GROUP (04)	<u>(E00</u> )	
04/E01 04/E02	Test Voltages Temperature Measurements, Electrical Components	33 34	33 34
04/E03 04/E04	Input Test Temperature Test, Electrical Components	35 36	35 36
04/E05 04/E06 04/E07	Leakage Current Dielectric Withstand Locked Rotor (Stalled	38 37 39	38 37 39
04/E08	Motor) Temperature Power Cord Strain Relief	40	40

R. F. GEISSER & ASSOCIATES, INC. 120 Pershing Street, P.O. Box 4526, East Providence, RI 02914 Bryon R. Holmes Phone: 401-438-7320

Accreditation Renewal Date: January 1, 1987

# PHYSICAL/FIRE TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test	12	14
04/F06	Brand Fire Test		12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	13	15

# Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

04/F11	Test Installation	7.2
04/F12	Temperature Measurement	7.3
04/F14	Radiant Fire Test	7.5
04/F16	Brand Fire Test	7.6
04/F17	Flash Fire Test	7.7
04/F18	Strength Tests	7.12
04/F19	Stability Test	7.10
04/F20	Glazing Test	7.11

## MOBILE HOME TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

04/M04	Test Installation	12
04/M05	Toxic Gas	12
04/M06	Drop Test	12

# ELECTRICAL TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01 04/E02	Test Voltages Temperature Measurements,	33 34	33 34
04/E03	Electrical Components Input Test	35	35

04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

		Section of CSA C 22.2 No. 3 1979	Section of CSA C 22. 2 No. 113 1982
04/E09	Tem erature Measurements, Electrical Components	6.2	6.4
04/E10	Temperature Test, Electrical Components	6.2	6.4
04/E11	Leakage Current		6.8
04/E12	Dielectric Withstand	6.3	6.8 6.5
04/E13	Power Cord Strain Relief	6.4	6.9

# STOVE TESTING LAB INTERNATIONAL, INC. 1200 West Eighth Street, P.O. Box 3804, Vancouver, WA 98662 Sharon Conrad Telephone: 206-695-6666

# Accreditation Renewal Date: July 1, 1986

NVLAP Code	Short Title	Section of UL 737 5th Edition (March 1, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
	PHYSICAL/FIRE TEST GROUP	(04/F00)	
04/F01 04/F02 04/F04 04/F05 04/F06 04/F07 04/F08 04/F09 04/F10	Test Installation Temperature Measurement Radiant Fire Test Coal Fire Test Brand Fire Test Flash Fire Test Strength Tests Stability Test Glazing Test	8 9 11 12 13 15 16 14	8 9 11 14 12 13 16 16 15
	MOBILE HOME TEST GROUP (04	4/MOO)	
04/M01 04/M02 04/M03	Test Installation Toxic Gas Drop Test	17 17 17	17 17 17
	ELECTRICAL TEST GROUP (04/	<u>(E00</u> )	
04/E01 04/E02	Test Voltages Temperature Measurements, Electrical Components	33 34	33 34
04/E03	Input Test	35	35

04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

HOLLYTEX CARPET MILL, INC. 505 N.E. Seventh Street, P.O. Box 369, Anadarko, OK 73005 Darlene McIntire Phone: 405-247-6641

# Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
03/C02 03/S01	AATCC 8 ASTM D1335 Federal Test Method	Colorfastness to Crocking Tuft Bind of Floor Coverings
	Standard 191-5100 191-5950	Textile Test Method - Breaking Strength Textile Test Method - Delamination
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
	Sec. 1630.4	Test Procedure

## NVLAP LAB CODE 0248

## KNAUF FIBER GLASS RESEARCH LABORATORIES 240 Elizabeth Street, Shelbyville, IN 46176 Kerry Van Arsdel Phone: 317-398-4434

# Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title	
01/D02	ASTM C167	Thickness and density; Blanket and b	att
01/D08	ASTM C302	Density; Preformed pipe insulation	
01/D09	ASTM C303	Density; Preformed block insulation	
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulat	tion
01/012	ASTM C411	Hot-surface performance; High temperature insulation	
01/013	ASTM C519	Density: Loose-fill (fibrous)	
01/501	ASTM C165	Compressive properties; Thermal insulation (proc. A)	
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate	
01/T05	ASTM C335	Thermal conductivity; Pipe insulation	n
01/T06	ASTM C518	Thermal transmission properties; Hea flow meter	it
01/T09	ASTM C653	Thermal resistance (Rec. Practice); Blanket (mineral fiber)	)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)	

WARNOCK HERSEY INTERNATIONAL, INC. 8612 Fairway Place, Middleton, WI 53562 James J. Husom Phone: 608-836-4400

Accreditation Renewal Date: January 1, 1987

## PHYSICAL/FIRE TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04 I	Radiant Fire Test	11	11
04/F05 (	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
	Glazing Test	14	15

# Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

7.2 7.3 7.5 7.6 7.7 7.12 7.10 7.11

04/F11	Test Installation
04/F12	Temperature Measurement
04/F14	Radiant Fire Test
04/F16	Brand Fire Test
04/F17	Flash Fire Test
04/F18	Strength Tests
04/F19	Stability Test
04/F20	Glazing Test
	5

### MOBILE HOME TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17

Section of CSA Standard B 366.2-M1984 (ULC s627-M1984) (April, 1984)

> 12 12 12

04/M04	Test Installation
04/M05	Toxic Gas
04/M06	Drop Test

# ELECTRICAL TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35

04/E04	Temperature Test,	36	36
04 /505	Electrical Components	70	38
04/E05	Leakage Current	38	
04/E06	Dielectric Withstand	37	37
04/E07	Lor'ed Rotor (Stalled	39	39
	Motor) Temperature		
04/E08	Power Cord Strain Relief	40	40

		Section of CSA C 22.2 No. 3 1979	Section of CSA C 22. 2 No. 113 1982
04/E09	Temperature Measurements, Electrical Components	6.2	6.4
04/E10	Temperature Test, Electrical Components	6.2	6.4
04/E11	Leakage Current		6.8
04/E12 04/E13	Dielectric Withstand Power Cord Strain Relief	6.3 6.4	6.5 6.9

## PARTICULATE EMISSIONS AND THERMODYNAMIC PERFORMANCE GROUP

ASTM P180

04/G01	Particulate Emissions Characteristics Tests
04/G02	Flue-loss Thermodynamic Performance Tests

NVLAP LAB CODE 0250

## W. R. GRACE & COMPANY THERMAL MEASUREMENTS LABORATORY 62 Whittemore Avenue, Cambridge, MA 02140 Gregory Derderian Phone: 617-876-1400

# Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
01/D09 01/D14 01/T04 01/T06	ASTM C303 ASTM C520 ASTM C236 ASTM C518	Density; Preformed block insulation Density; Granular loose-fill Thermal conductance; Guarded hot box Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0251

STATE OF CALIFORNIA BUREAU OF HOME FURNISHINGS INSULATION PROGRAM 3485 Orange Grove Avenue, North Highlands, CA 95660 Sarfraz A. Siddiqui Phone: 916-920-7005

Accreditation Renewal Date: July 1, 1986

Amendment 1)

NVLAP Code	Designation	Short Title
	HH-I-515 4.8.5 in D version,	Corrosiveness; Cellulosic fiber (loose-fill)

01/D26 (para.	HH-I-515 4.8.1 in D version, Amendment 1)	Settled density; Cellulosic fiber (loose-fill)
	HH-I-515 4.8.7 in D version,	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08 (para.	Amendment 1) HH-I-515 4.8.8 in D version, Amendment 1)	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

D/L LABORATORIES 116 East 16th Street, New York, NY 10003 Saul Spindel Phone: 212-777-4410

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Accreditation Renewal Date: October 1, 1986

NVLAP		
Code	Designation	Short Title

# Paints and Related Coatings and Materials

Measurements of Intrinsic Physical Properties			
09/A01	ASTM D56	Floch Driet by Too Closed Tester	
09/A01	ASTM D98	Flash Point by Tag Closed Tester Flash Point by Pensky-Martens Closed Tester,	
077 402	ASIM 022	Method A & B	
09/A03	ASTM D153	Specific Gravity of Pigments	
09/A04	ASTM D185	Coarse Particles in Pigments, Pastes and Paints	
09/A05	ASTM D281	Oil Absorption of Pigments by Spatula Rub-Out	
09/A07	ASTM D523	Specular Gloss	
09/A08	ASTM D562	Consistency of Paints Using the Stormer Viscometer Procedure A & B	
09/A09	ASTM D1005	Dry Film Thickness of Organic Coatings	
09/A10	ASTM D1186	Dry Film Thickness of Non-magnetic Coatings	
		Applied to a Ferrous Base, Method A & B	
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by	
00 ( 01 0		Ford Viscosity Cup	
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems	
09/A13 09/A14	ASTM D1212 ASTM D1296	Wet Film Thickness of Organic Coatings, Method A Odor of Volatile Solvents and Diluents	
09/A15	ASTM D1200	Flash-Point of Liquids by Tag Open-Cup Apparatus	
09/A16	ASTM D1400	Dry Film Thickness of Non-conductive Coatings	
		Applied to a Nonferrous Metal Base	
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related	
09/A18	ASTM D1544	Products	
09/A18	ASTM D1544	Color of Transparent Liquids (Gardner Color Scale) Visual Evaluation of Color Differences of Opaque	
0)/ AI	ASIM DIVES	Materials	
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of	
		Opaque Materials	
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester	
09/A22	ASTM D3363	Method A & B Film Hardness by Pencil Test	
09/A23	ASTM D3793	Low-Temperature Coalescence of Latex Paint Films	
09/A24	ASTM D4061	Specific Luminance of Horizontal Coatings	
09/A25	ASTM D4212	Viscosity by Dip-Type Viscosity Cups	

09/A26	ASIM E97	Opaque Specimens by Broad-Band Filter Reflectometry
D9/A27	ASTM E3D8	Spectrophotometry and Description of Color in
D9/A28	ASTM E313	CIE 1931 System Indexes of Whiteness and Yellowness of Near-White
		Opaque Materials
Magazinar	ante of Dopformana	and Panfarmana Change
		and Performance Change
09/BD1	ASTM D279	Bleeding of Pigments, Method A & B
09/B02 D9/BD3	ASTM D332 ASTM D344	Tinting Strength of White Pigments, Method A Relative Dry Hiding Power of Paints
09/B04	ASTM DOID	Rusting on Painted Steel Surfaces
09/BD5	ASTM D659	Chalking of Exterior Paints
09/B06	ASTM D66D	Checking of Exterior Paints
09/BD7	ASTM D661	Cracking of Exterior Paints
D9/B08	ASTM D662	Erosion of Exterior Paints
D9/B09	ASTM D711	No-Pick-Up Time of Traffic Paint
	ASTM D714	Blistering of Paints
D9/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B12	ASTM D821	Abrasion, Erosion or a Combination of Both in Road
D9/B13	ASTM D868	Service Tests of Traffic Paints Bleeding of Traffic Paint
09/B14	ASTM D869	Settling of Traffic Paint
D9/B15	ASTM D87D	Water Immersion Test of Organic Coatings on Steel
09/B16	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Drganic Coatings by the
		Falling Abrasive Tester, Method A & B
D9/B18	ASTM D969	Bleeding of Traffic Paint
09/B19	ASTM D1308	Effect of Household Chemicals on Clear and
D9/B2D	ASTM D1309	Settling Properties of Traffic Paint During
09/B23	ASTM D1640	Drying, Curing, or Film Formation of Organic
D9/B24	ASTM D1737	Elongation of Attached Drganic Coatings with
09/B25	ASTM D2197	Cylindrical Mandrel Apparatus Adhesion of Drganic Coatings, Method A
D9/B26	ASTM D2243	Freeze-Thaw Resistance of Latex and Emulsion
		Paints
09/B27	ASTM D2248	Detergent Resistance of Organic Finishes
D9/B29	ASTM D2486	Scrub Resistance of Interior Latex Flat Wall
		Paints
09/B30	ASTM D2801	Leveling Characteristics of Paints by Draw-Down
D0/071	A CTM D2905	Method
D9/B31 D9/B32	ASTM D2805 ASTM D3273	Hiding Power of Paints Resistance to Growth of Mold on the Surface of
07/072	ASIM DJ27J	Interior Coatings in an Environmental Chamber
D9/B33	ASTM D3274	Surface Disfigurement of Paint Films by Fungal
077 077		Growth or Soil and Dirt Accumulation
09/B34	ASTM D3450	Washability Properties of Interior Architectural
		Coatings
D9/B35	ASTM D3456	Susceptability of Paint Films to Microbioligical
		Attack
D9/B37	ASTM D406D	Abrasion Resistance of Organic Coatings by the
D0 (D70		Taber Abraser
D9/B38	ASTM D4062	Leveling of Paints by Draw-Down Method Wet Abrasion Resistance of Interior Paint by
D9/B39	ASTM D4213	Weight Loss
09/B40	ASTM D4214	Chalking of Exterior Paint Films,
0,040		Method A, B, C, D & E
D9/B41	Fed. Std. 141	Sag Test (Multinotch Blade)
	Method 4494	
09/B42	Fed. Std. 141	Drying Time
	Method 4061	

45- deg, O-deg Directional Reflectance Factor of

# Measurement of Chemical Properties and Compositions

D9/C02 ASTM D95

09/A26 ASTM E97

Water in Petroleum Products and Bituminous Materials by Distillation

09/006	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/007	ASTM D1133	Kauri-Butanol Value of Hydro-carbon Solvents
09/008	ASTM D1208	Common Properties of Certain Pigments
09/009	ASTM D1259	Nonvolatile Content of Resin Solutions, Method A & B
09/C11	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer and Related Products
09/C12	ASTM D1364	Water in Volatile Solvents (Fischer Reagent Titration Method)
09/C22	ASTM D1644	Nonvolatile Content of Varnishes, Methods A & B
09/C26	ASTM D2369	Volatile Content of Paints, Procedure A & B
09/C27	ASTM D2371	Pigment Content of Solvent-Type Paints
09/C28	ASTM D2697	Volume Nonvolatile Matter in Clear or Pigmented Coatings
09/029	ASTM D2698	Pigment Content Of Solvent-Type Paints by High-Speed Centrifuging
09/030	ASTM D2832	Nonvolatile Content of Paint and Paint Materials
09/C37	ASTM D3723	Pigment Content of Water-Emulsion Paints by Low-Temperature Ashing
09/C39	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings
09/C40	ASTM D4017	Water in Paints and Paint Materials by Karl Fischer Method

Test Sample Conditioning and Preparation

09/D01 09/D02	ASTM B117 ASTM D609	Salt Spray (Fog) Testing Preparation of Steel Panels for Testing Paints Varnish, Lacquer, and Related Products, Method A, B, C, & D
09/D03	ASTM D822	Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Testing Paint, Varnish, Lacquer, and Related Products
09/D04	ASTM D823	Producing Films of Uniform Thickness of Paint Varnish, Lacquer, and Related Products on Test Panels, Method B & D
09/D05 09/D06	ASTM D1006 ASTM D1014	Exterior Exposure Tests of Paints on Wood Exterior Exposure Tests of Paints on Steel, Method A, B, D, E, & F
09/D07	ASTM D1654	Painted or Coated Specimens Subjected to Corrosive Environments, Procedures A & B
09/D10	ASTM D2247	Coated Metal Specimens at 100% Relative Humidity
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/D13	ASTM D3924	Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
09/D14	ASTM G23	Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials, Method 1, 2, 3, & 4
09/D16	ASTM G53	Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for
		Exposure of Nonmetallic Materials
17 (00)	1000	ob internet only obtained
13/001	ASTM C-510	Staining and Color Change
13/002	ASTM C-603	Extrusion Rate and Application Life
13/003 13/004	ASTM C-639	Rheological (Flow) Properties
13/004	ASTM C-661	Indentation Hardness by Durometer
13/005	ASTM C-679	Tack-Free Time
13/007	ASTM C-681 ASTM C-711	Volatility Low-Temperature Flexibility and Tenacity
13/008	ASTM C-712	Bubbling
13/009	ASTM C-712	Slump
13/010	ASTM C-718	UV-Cold Box Exposure
13/011	ASTM C-719	Adhesion and Cohesion Under Cyclic Movement
13/012	ASTM C-731	Extrudibility, After Package Aging
13/013	ASTM C-732	Aging Effects of Artificial Weathering
13/014	ASTM C-733	Volume Shrinkage
13/015	ASTM C-734	Low-Temperature Flexibility After
		Artificial Weathering

13/016	ASTM C-736	Extension-Recovery and Adhesion After Artificial Weathering
13/017	ASTM C-741	Accelerated Aging
13/018	ASTM C-742	Degree of Set
13/019	ASTM C-792	Effects of Heat Aging on Weight Loss, Cracking, and Chalking
13/020	ASTM C-793	Effects of Accelerated Weathering
13/021	ASTM C-794	Adhesion-in-Peel
13/022	ASTM C-910	Bond and Cohesion
13/023	ASTM D-2202	Slump
13/024	ASTM D-2203	Staining
13/025	ASTM D-2376	Slump
13/026	ASTM D-2377	Tack-Free Time
13/027	ASTM D-2450	Bond
13/028	ASTM D-2451	Degree of Set
13/029	ASTM D-2452	Extrudibility
13/030	ASTM D-2453	Shrinkage and Tenacity

## UNDERWRITERS LABORATORIES INC. 1285 Walt Whitman Road, Melville, NY 11747 R. W. Miller Phone: 516-271-6200

Accreditation Renewal Date: October 1, 1986

NVLAP Code	Designation	Short Title
03/F03	16 CFR Part 1630 (FF 1-70)	Surface Flammability
	Section 1630.4	Test Procedure
03/F04	ASTM E648	Radiant Panel (Carpet)

NVLAP LAB CODE 0256

WESTERN ELECTRO-ACOUSTIC LABORATORY, INC. 1711 16th Street, Santa Monica, CA 90404 Jose C. Ortega Phone: 213-870-9268

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Accreditation Renewal Date: April 1, 1986

NVLAP Code	Designation	Short Title
08/P03	ASTM C423-84a	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90-83	Airborne Sound Transmission Loss of Building Partitions

GAI CONSULTANTS, INC. 570 Beatty Road, Monroeville, PA 15146 Charles T. Ford Phone: 412-856-6400

Accreditation Renewal Date: April 1, 1986

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

NVLAP LAB CODE 0258

THE CELOTEX CORPORATION, TRACY PLANT 400 West Gandy Dancer Drive, P.O. Box 1500, Tracy, CA 95376 Robert E. Herrell Phone: 209-836-4440

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Accreditation Renewal Date: July 1, 1986

NVLAP Code	Designation	Short Title
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

MACMILLAN BLOEDEL INC. TECHNICAL DEPARTMENT TESTING LABORATORIES P.O. Box 336, Pine Hill, AL 36769 G. S. Overstreet Phone: 205-963-4391

Accreditation Renewal Date: July 1, 1986

NVLAP	Test Method	
Code	Designation	Short Title

# Paper and Related Products

Paper	and	Paper	board
Laner	anu	Laner	DOard

09/E02	TAPPI T402-OM	Standard Conditioning and ASTM D685 Testing Atmospheres for Paper, Board, Pulp Handsheets and Related Products
09/E03	TAPPI T403-OS ASTM D774	Bursting Strength of Paper
09/E05	TAPPI T410-OM	Grammage of Paper and Paper-board (Weight per Unit Area)
09/E06	TAPPI T411-OM	Thickness (Caliper) of Paper and Paperboard
09/E07	TAPPI T412-OM	Moisture in Paper and Paperboard
09/207	ASTM D644	
09/E08	TAPPI T414-OM	Internal Tearing Resistance of Paper ASTM D689
09/E10	TAPPI T435-OM	Hydrogen Ion Concentration (pH) of Paper Extracts- (Hot Extraction Method)
09/E12	TAPPI T459-OM ASTM D2482	Surface Strength of Paper (Wax Pick Test)
09/E13	TAPPI T460-OM ASTM D726	Air Resistance of Paper
09/E17	TAPPI T494-OM	Tensile Breaking Properties of Paper and Paperboard (Using Constant Rate of Elongation Apparatus)
09/E19	TAPPI T538-PM	Sheffield Smoothness of Paper and Paperboard (air Flow Method)
09/E20	TAPPI T809-OM	Flat Crush of Corrugating Medium (CMT Test)
09/E21	TAPPI T818-OM	Ring Crush of Paperboard
07/221	ASTM D1164	King Crush of Paperboard

# Packaging

09/H01	ASTM D642	Compression Test for Shipping Containers
09/H23	TAPPI T6880M	Total Wax Content of Corrugated Paperboard
09/H24	TAPPI T8020S	Drop Test for Fiberboard Shipping Containers
09/H25	TAPPI T8030M	Puncture and Stiffness Test of Container Board
09/H26	TAPPI Useful	Wet Shear Adhesion Test of Corrugated
	Method 807	Fiberboard (MBR)
09/H27	TAPPI T8080S	Flat Crush Test of Corrugated Board
09/H28	TAPPI T8100M	Bursting Strength of Corrugated and Solid Fiberboard
09/H29	TAPPI T8110S	Edgewise Compressive Strength of Corrugated Fiberboard (Short Column Test)
09/H30	TAPPI T821PM	Pin Adhesion of Corrguated Board by Selective Separation

BASF STYROPOR TECHNICAL CENTER Cranbury and South River Road, Jamesburg, NJ 08831 Mark C. Braemer Phone: 201-521-1600

Accreditation Renewal Date: October 1, 1986

NVLAP Code	Designation	Short Title
01/502	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/511	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0261

### RADCO (RESOURCES APPLICATIONS, DESIGNS & CONTROLS, INC.) 16415 South Avalon Blvd., Gardena, CA 90248 Ronald I. Ogawa Phone: 213-532-3842

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Accreditation Renewal Date: January 1, 1987

NVLAP Code	Designation	Short Title
01/D07 01/D09 01/D21	ASTM C272 ASTM C303 ASTM D2126	Water absorption; Core materials Density; Preformed block insulation Response to thermal and humid aging (proc. E); Rigid cellular plastics
01/D27	ASTM D2126	Response to thermal and humid aging (proc. C): Rigid cellular plastics
01/D29	California Energy Commi Installed compressed th	ission tests for insulating materials:
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/502	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/509	ASTM D781	Puncture test: Paperboard and fiberboard
01/510	ASTM D828	Tensile breaking strength; Paper and paperboard
01/511	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/V04	ASTM E96	Water vapor transmission; Thin sheets (proc. A)

WHITTAKER ANALYTICAL SERVICES 1231 South Lincoln Street, P.O. Box 825, Colton, CA 92324 Edward J. Holzrichter Phone: 714-825-6292

Accreditation Renewal Date: January 1, 1987

NVLAP	Test Method	
Code	Designation	Short Title

Paints and Related Coatings and Materials

# Measurements of Intrinsic Physical Properties

09/A04 09/A05 09/A07 09/A09 09/A11	ASTM D185 ASTM D281 ASTM D523 ASTM D1005 ASTM D1200	Coarse Particles in Pigments, Pastes and Paints Oil Absorption of Pigments by Spatula Rub-Out Specular Gloss Dry Film Thickness of Organic Coatings Viscosity of Paints, Varnishes, and Lacquers by
09/A12 09/A16	ASTM D1210 ASTM D1400	Ford Viscosity Cup Fineness of Dispersion of Pigment-Vehicle Systems Dry Film Thickness of Non-conductive Coatings Applied to a Nonferrous Metal Base
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A18 09/A19	ASTM D1544 ASTM D1729	Color of Transparent Liquids (Gardner Color Scale) Visual Evaluation of Color Differences of Opaque Materials
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of Opaque Materials
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester, Methods A & B
	ASTM D3363 ASTM D4212 ASTM E97	Film Hardness by Pencil Test Viscosity by Dip-Type Viscosity Cups 45- deg, O-deg Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry
09/A28	ASTM E313	Indexes of Whiteness and Yellowness of Near-White Opaque Materials

# Measurements of Performance and Performance Change

09/B08 09/B10 09/B11	ASTM D659 ASTM D660 ASTM D661 ASTM D662 ASTM D714 ASTM D772 ASTM D821	Chalking of Exterior Paints Checking of Exterior Paints Cracking of Exterior Paints Erosion of Exterior Paints Blistering of Paints Flaking (Scaling) of Exterior Paints Abrasion, Erosion or a Combination of Both in Road Service Tests of Traffic Paints
09/B14	ASTM D869	Settling of Traffic Paint
	ASTM D870	Water Immersion Test of Organic Coatings on Steel
	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester, Methods A & B
09/B18	ASTM D969	Bleeding of Traffic Paint
09/B20	ASTM D1309	Settling Properties of Traffic Paint During
09/B23	ASTM D1640	Drying, Curing, or Film Formation of Organic
09/824	ASTM D1737	Elongation of Attached Organic Coatings with
		Cylindrical Mandrel Apparatus
09/B25	ASTM D2197	Adhesion of Organic Coatings, Method B
09/B27	ASTM D2248	Detergent Resistance of Organic Finishes
09/B31	ASTM D2805	Hiding Power of Paints
09/B33	ASTM D3274	Surface Disfigurement of Paint Films by Fungal
		Growth or Soil and Dirt Accumulation

09/837	ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
09/840	ASTM D4214	Chalking of Exterior Paint Films, Methods A, B, C, & D
09/841	Fed. Std. 141 Method 4494	Sag Test (Multinotch Blade)
09/842	Fed. Std. 141 Method 4061	Drying Time

Measurement of Chemical Properties and Compositions

09/002	ASTM D95	Water in Petroleum Products and Bituminous
09/004	ASTM D563	Materials by Distillation Phthalic Anhydride Content of Alkyd Resins and
09/004	ASIM UJOJ	Resin Solutions
09/006	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/007	ASTM D1133	Kauri-Butanol Value of Hydro-carbon Solvents
09/009	ASTM D1259	Nonvolatile Content of Resin Solutions, Methods A & B
09/C10	ASTM D1306	Phthalic Anhydride Content of Alkyd Resins and
		Esters Containing Other Dibasic Acids
		(Gravimetric)
09/C11	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in
09/C14	ASTM D1397	Paint, Varnish, Lacquer and Related Products Unsaponifiable Matter in Alkyd Resins and Resins
07/014	1011 01000	Solutions
09/C15	ASTM D1398	Fatty Acid Content of Alkyd Resins and Alkyd Resin
00 (017	10711 014 67	Solutions, Methods A & B
09/C17 09/C20	ASTM D1467 ASTM D1613	Fatty Acids Used in Protective Coatings Acidity in Volatile Solvents and Chemical
07/620	ASIM DIGIS	Intermediates Used in Paint, Varnish, Lacquer
		and Related Products
09/C21	ASTM D1639	Acid Value of Organic Coating Materials
09/022	ASTM D1644	Nonvolatile Content of Varnishes, Methods A & B
09/C23 09/C26	ASTM D1652 ASTM D2369	Epoxy Content of Epoxy Resins Volatile Content of Paints, Procedures A & B
09/C27	ASTM 02371	Pigment Content of Solvent-Type Paints
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by
		High-Speed Centrifuging
09/C30 09/C31	ASTM D2832 ASTM D3009	Nonvolatile Content of Paint and Paint Materials Composition of Turpentine by Gas Chromatography
09/C32	ASTM D3271	Direct Injection of Solvent-Base Paints into a Gas
077 072		Chromatograph for Solvent Analysis
09/C34	ASTM D3335	Low Concentrations of Lead, Cadmium, and Cobalt in
09/C35	ASTM D3624	Paint by Atomic Absorption Spectroscopy Low Concentrations of Mercury in Paint by Atomic
09/099	AJIH DJ024	Absorption Spectroscopy
09/036	ASTM D3718	Low Concentrations of Chromium in Paint by Atomic
00/070	10001 070/0	Absorption Spectroscopy
09/C39	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings
		neraces coatrigs

Test Sample Conditioning and Preparation

09/D01	ASTM B117	Salt Spray (Fog) Testing
09/D07	ASTM D1654	Painted or Coated Specimens Subjected to Corrosive
		Environments, Procedures A & B
09/D10	ASTM D2247	Coated Metal Specimens at 100% Relative Humidity
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/D16	ASTM G53	Operating Light- and Water-Exposure Apparatus
		(Fluorescent UV-Condensation Type) for
		Exposure of Nonmetallic Materials

SHELTON RESEARCH, INC. 1517 Pacheco Street, P.O. Box 5235, Santa Fe, NM 87502 Jay W. Shelton Phone: 505-983-9457

Accreditation Renewal Date: January 1, 1987

# PHYSICAL/FIRE TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/F05	Coal Fire Test		14
04/F06	Brand Fire Test	12	12
04/F07	Flash Fire Test	13	13
04/F08	Strength Tests	15	16
04/F09	Stability Test	16	16
04/F10	Glazing Test	14	15

## ELECTRICAL TEST GROUP

NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements, Electrical Components	34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/E07	Locked Rotor (Stalled Motor) Temperature	39	39
04/E08	Power Cord Strain Relief	40	40

## PARTICULATE EMISSIONS AND THERMODYNAMIC PERFORMANCE GROUP

### ASTM P180

01/G01	Particulate Emissions Characteristics Tests
01/G02	Flue-loss Thermodynamic Performance Tests
01/G03	Room Calorimeter Thermodynamics Performance Tests

NVLAP LAB CODE 0266

## UNITED STATES TESTING COMPANY, INC. CHEMICAL SERVICES DIVISION 1415 Park Avenue, Hoboken, NJ 07030 G. Neil Spokes Phone: 201-792-2400

Accreditation Renewal Date: January 1, 1987

NVLAP Code Designation

Short Title

Paints and Related Coatings and Materials

Measurements of Intrinsic Physical Properties

09/A01	ASTM D56	Flash Point by Tag Closed Tester
09/A02	ASTM D93	Flash Point by Pensky-Martens Closed Tester, Methods A & B
09/A03	ASTM D153	Specific Gravity of Pigments
09/A04 09/A05	ASTM D185 ASTM D281	Coarse Particles in Pigments, Pastes and Paints Oil Absorption of Pigments by Spatula Rub-Out
09/A07	ASTM D523	Specular Gloss
09/A08	ASTM D562	Consistency of Paints Using the Stormer Viscometer Procedures A & B
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by Ford Viscosity Cup
09/A12	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/A13	ASTM D1212	Wet Film Thickness of Organic Coatings, Methods A & B
09/A15	ASTM D1310	Flash-Point of Liquids by Tag Open-Cup Apparatus
09/A16	ASTM D1400	Dry Film Thickness of Non-conductive Coatings Applied to a Nonferrous Metal Base
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of Opaque Materials
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester, Methods A & B
09/A22	ASTM D3363	Film Hardness by Pencil Test
09/A25	ASTM D4212	Viscosity by Dip-Type Viscosity Cups

Measurements of Performance and Performance Change

09/804 09/805 09/806 09/807 09/808 09/810 09/811 09/812	ASTM D610 ASTM D659 ASTM D660 ASTM D661 ASTM D662 ASTM D714 ASTM D772 ASTM D821	Rusting on Painted Steel Surfaces Chalking of Exterior Paints Checking of Exterior Paints Cracking of Exterior Paints Erosion of Exterior Paints Blistering of Paints Flaking (Scaling) of Exterior Paints Abrasion, Erosion or a Combination of Both
09/B13 09/B15 09/B16 09/B17	ASTM D868 ASTM D870 ASTM D913 ASTM D968	in Road Service Tests of Traffic Paints Bleeding of Traffic Paint Water Immersion Test of Organic Coatings on Steel Chipping of Traffic Paint Abrasion Resistance of Organic Coatings by the Falling Abrasive Tester, Methods A & B
09/B19 09/B21 09/B23 09/B24	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737	Effect of Household Chemicals on Clear and Fire-Retardancy of Paints (Cabinet Method) Drying, Curing, or Film Formation of Organic Elongation of Attached Organic Coatings with Cylindrical Mandrel Apparatus
09/B25 09/B26	ASTM D2197 ASTM D2243	Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints
09/B27 09/B29	ASTM D2248 ASTM D2486	Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints
09/B30	ASTM D2801	Leveling Characteristics of Paints by Draw-Down Method
09/B33	ASTM D3274	Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation
09/B34	ASTM D3450	Washability Properties of Interior Architectural Coatings
09/B37	ASTM D4060	Abrasion Resistance of Organic Coatings by the Taber Abraser
09/B40	ASTM D4214	Chalking of Exterior Paint Films, Methods A, B, C, D, & E
09/B41	Fed. Std. 141 Method 4494	Sag Test (Multinotch Blade)
09/B42	Fed. Std. 141 Method 4061	Drying Time

# Measurement of Chemical Properties and Compositions

09/002	ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
09/C06 09/C09	ASTM D1078 ASTM D1259	Distillation Range of Volatile Organic Liquids Nonvolatile Content of Resin Solutions, Methods A & B
09/011	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in Paint, Varnish, Lacquer and Related Products
09/C12	ASTM D1364	Water in Volatile Solvents (Fischer Reagent Titration Method)
09/015	ASTM D1398	Fatty Acid Content of Alkyd Resins and Alkyd Resin Solutions, Methods A & B
09/019	ASTM D1541	Total Iodine Value of Drying Oils and Their Derivatives
09/C20	ASTM D1613	Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and Related Products
09/C21	ASTM D1639	Acid Value of Organic Coating Materials
09/C22	ASTM D1644	Nonvolatile Content of Varnishes, Methods A & B
	ASTM D1652	Epoxy Content of Epoxy Resins
09/C24	ASTM D2075	Iodine Value of Fatty Amines, Amidoamines, and Diamines
09/C25	ASTM D2076	Acid Value and Amine Value of Fatty Quaternary Ammonium Chlorides
09/026	ASTM D2369	Volatile Content of Paints, Procedures A & B
09/C27	ASTM D2371	Pigment Content of Solvent-Type Paints
09/C28	ASTM D2697	Volume Nonvolatile Matter in Clear or Pigmented Coatings
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by High-Speed Centrifuging
09/C31	ASTM D3009	Composition of Turpentine by Gas Chromatography
09/C32	ASTM D3271	Direct Injection of Solvent-Base Paints into a Gas Chromatograph for Solvent Analysis
09/C33	ASTM D3272	Vacuum Distillation of Solvents from Solvent-Base Paints for Analysis
09/C37	ASTM D3723	Pigment Content of Water-Emulsion Paints by Low-Temperature Ashing
09/C38	ASTM D3792	Water Content of Waterborne Paints by Direct Injection into a Gas Chromatograph
09/039	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings
09/C40	ASTM D4017	Water in Paints and Paint Materials by Karl Fischer Method

# Test Sample Conditioning and Preparation

09/D01	ASTM B117	Salt Spray (Fog) Testing
09/D02	ASTM D609	Preparation of Steel Panels for Testing Paints Varnish, Lacquer, and Related Products, Methods A, B, C, & D
09/D04	ASTM D823	Producing Films of Uniform Thickness of Paint Varnish, Lacquer, and Related Products on Test Panels, Method B
09/007	ASTM D1654	Painted or Coated Specimens Subjected to Corrosive Environments, Procedures A & B
09/D08	ASTM D1730	Preparation of Aluminum and Aluminum-Alloy Surfaces for Painting, Types A & B
09/D11	ASTM D2372	Separation of Vehicle Solvent-Type Paints
09/013	ASTM D3924	Standard Environment for Conditioning and Testing Paint, Varnish, Lacquer, and Related Materials
09/D16	ASTM G53	Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

### BALTIMORE GAS & ELECTRIC COMPANY, CALVERT CLIFFS NUCLEAR POWER PLANT NUCLEAR POWER DEPARTMENT, DOSIMETRY UNIT RADIATION SAFETY SECTION Lusby, MD 20657 Eugene T. Reimer Phone: 301-269-4716

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0502

#### UNION ELECTRIC COMPANY CALLAWAY PLANT P.O. Box 620, Fulton, MO 65251 Ron Roselius Phone: 314-676-8321

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, VI, VII, VIII.

NVLAP LAB CODE 0503

MALLINCKRODT DIAGNOSTICS, INC. 2703 Wagner Place, Maryland Heights, MO 63043 Mark Doruff Phone: 314-344-3981

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic readers model 2000B and 2000D.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD model 100 for ANSI-N13.11 category VII.

### NAVAL MEDICAL COMMAND NATIONAL CAPITAL REGION RADIATION SAFETY DEPARTMENT Bethesda, MD 20814 Eric E. Kearsley Phone: 202-295-5414

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Harshaw Automatic reader model 2271 and Manual film processing using a Macbeth densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD Albedo (1 TLD 600, 1 TLD 700) for ANSI-N13.11 categories II, IV, VIII.

Film Badge (Kodak Type 3) for ANSI-N13.11 Categories II, III, IV, V, VI, VII.

NVLAP LAB CODE 0505

DUKE POWER COMPANY, DOSIMETRY LABORATORY Physical Sciences Building Route 4, Box 531, Huntersville, NC 28078 Wanda M. Carter Phone: 704-875-1971

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual readers model 8300 and 8310.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BP3 for ANSI-N13.11 categories II, IV, V, VII.

NVLAP LAB CODE 0506

### SOUTHERN CALIFORNIA EDISON SAN ONOFRE NUCLEAR GENERATING STATION P.O. Box 128, San Clemente, CA 92672 Kathryn H. Swoope Phone: 714-492-7700

Accreditation Renewal Date: October 1, 1986

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-N13.11-1983 through testing.

Panasonic TLD model UD802-AS2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

U.S. ENVIRONMENTAL PROTECTION AGENCY NUCLEAR RADIATION ASSESSMENT DIVISION P.O. Box 15027, Las Vegas, NV 89114 Jaci L. Hopper Phone: 702-798-2320

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD Model TL-200 for ANSI-N13.11 categories II, IV.

NVLAP LAB CODE 0508

### NEW YORK POWER AUTHORITY INDIAN POINT UNIT NO. 3 NUCLEAR POWER PLANT P.O. Box 215, Buchanan, NY 10511 Thomas Labenski Phone: 914-739-8200

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710B and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD806AQ for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

NVLAP LAB CODE 0509

NAVAL RESEARCH LABORATORY Code 6073, Washington, DC 20375 Kirk J. King Phone: 202-767-2232

Accreditation Renewal Date: January 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

NRL Radiation Badge for ANSI-N13.11 categories II, III, IV, VI, VIII.

GENERAL PUBLIC UTILITIES NUCLEAR CORPORATION DIVISION OF RADIOLOGICAL & ENVIRONMENTAL CONTROLS Route 441 South, P.O. Box 480, Middletown, PA 17057 O. Ronald Perry Phone: 717-948-8595

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802-2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, and Panasonic TLD model UD802-2N for ANSI-N13.11 categories IV, VIII.

NVLAP LAB CODE 0511

#### NEW YORK POWER AUTHORITY JAMES A. FITZPATRICK NUCLEAR POWER PLANT P.O. Box 41, Lycoming, NY 13093 Dr. David A. Dooley Phone: 315-342-3840

Accreditation Renewal Date: October 1, 1986

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-N13.11-1983 through testing.

Panasonic TLD model UD801 for ANSI-N13.11 categories II, IV, VI, VII.

## NVLAP LAB CODE 0512

RADIATION DETECTION COMPANY 162 Wolfe Road, P.O. Box 1414, Sunnyvale, CA 94088 Richard H. Holden Phone: 408-735-8700

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) modified CON RAD readers; (2) Teledyne 7100 reader; (3) Teledyne 7300 reader; (4) Harshaw 3000 reader; (5) Victoreen 2800 reader; (6) by manual film processing and reading on a Macbeth TD502 densitometer; or (7) Tracketch, NTA manual optical readers.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Designation	Process	ANSI N13.11 Categories
Hi Energy TLD	1	III, IV
Beta TLD	1,3*	V, VII
Lo Energy TLD	1,3*	I, III, VI

TLD Albedo	3*,6	VIII
Film XBG	6	I, II, III, IV, V, VI, VII
Film XBGN	6,7	VIII
Neutron Tracketch	7	VIII

* Processes listed above 2, 4, and 5 are considered functionally acceptable as substitutes which can be used in lieu of process 3 as listed above.

NVLAP LAB CODE 0514

ROCHESTER GAS & ELECTRIC CORP. R.E. GINNA NUCLEAR POWER PLANT 1503 Lake Road, Ontario, NY 14519 Bernard R. Quinn Phone: 315-524-4446

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A..

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0515

EBERLINE SERVICES DIVISION DOSIMETRY DEPARTMENT P.O. Box 2108, Santa Fe, NM 87501 Nels Johnson Phone: 505-345-9931

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Eberline Manual reader TLR-6.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Eberline TLD (2 or 3 Harshaw TLD 100 chips) for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0516

TENNESSEE VALLEY AUTHORITY, DOSIMETRY LABORATORY WESTERN AREA RADIOLOGICAL LABORATORY Muscle Shoals, AL 35660 S. Glenn Bugg Phone: 205–386–2075

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

The following sites are included in the accreditation as sub-facilities of the above listed main facility and are accredited for the same equipment and dosimeter listed.

Browns Ferry Nuclear Plant, Decatur, Alabama Watts Bar Nuclear Plant, Spring City, Tennessee Sequoyah Nuclear Plant, Daisy, Tennessee

MLAP LAB CODE 0517

### CAROLINA POWER & LIGHT COMPANY HARRIS ENERGY & ENVIRONMENTAL CENTER Route 1, Box 327, New Hill, NC 27562 Stephen A. Browne Phone: 919-362-3212

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD8024Q for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VII.

The following sites are included in the accreditation as sub-facilities of the above listed main facility. These sub-facilities are accredited by virtue of using identical equipment and procedures as indicated above.

Robinson Nuclear Plant, Hartsville, South Carolina Brunswick Nuclear Plant, Southport, South Carolina

NMLAP LAB CODE 0518

R.S. LANDAUER JR. & COMPANY Glenwood Science Park, 2 Science Park, Glenwood, IL 60425 Craig Yoder Phone: 312-755-7000

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing (1) automatic film reader Tech/Ops model 1; (2) Harshaw Atlas Hotgas reader; (3) Harshaw 2271 reader; (4) NTA/Polycarbonate /CR-39 manual optical readers; or (5) manual densitometers X-Rite, Tech/Ops model 301, Macbeth model TD504.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Landauer designation	Process	ANSI N13.11 Category
G – Film "GARDRAY"	1,5	I, II, III, IV, V, VI, VII
P – G badge plus NTA	1,4,5	VIII
A – G badge plus polycarbonate	1,4	VIII
TLD		
L – 4 chip "GARDRAY"	2	I, II, III, IV, V, VI, VII
D – 3 Harshaw 700 chips	3	II, IV, V, VII
I – Neutrak ER	3,4	VIII

The facility is accredited to process the following dosimeters which have been deemed functionally acceptable by virtue of using identical techniques and equipment to process combinations of elements demonstrated above.

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Landauer designation					
		Film	Process	ANSI N13.11 Category	
8	-	G badge plus CR-39 G badge plus CR-39	1,4,5	I through VIII	
С	-	G badge plus CR-39			
		and Cadmium	1,4,5	I through VIII	
Ρ	-	G badge plus NTA	1,4,5	I, II, III, IV, V, VI, VII, VIII	
Ĥ	-	G badge plus NTA	_, ., _	-,,, -, , , .,,,	
		and Codeture	1,4,5	I through VIII	
Δ	_	6 badge plus polycarbonate	1.4.5	I, II, III, IV, V, VI, VII, VIII	
i.	_	G badge plus polycarbonate G badge plus polycarbonate	-1-12	1, 11, 111, 10, 0, 01, 011, 011	
Ŭ		and Cadmium	1,4,5	I through VII	
V	_	G badge plus Cadmium	1,4,5		
		G badge plus ER	1 7 4 5		
0		DEX-RAY		I, II, III, IV, V, VI, VII, VIII	
ų	-	DEA-RAT	1,4,5	I, III	
		TID			
		TLD			
-		L badaa alua CD 30	2.4	T through WITT	
۳		L badge plus CR-39	2,4	I through VIII	
		L badge plus polycarbonate	2,4	I through VIII	
_		L badge plus ER	2,3,4	I through VIII	
ſ	-	2 chip	2	II, IV, V, VII	

The following sites are included in the accreditation as sub-facilities of the above listed main facility.

The following sub-facilities are accredited to process the Landauer "D" badge employing a Harshaw 2271 automatic TLD reader for ANSI N13.11 categories II, IV, V, VII which have been deemed functionally acceptable by virtue of using identical techniques and procedures as demonstrated above for the items specified.

R.S. Landauer, Jr. & Company Nuclear Station System (NSS) sites at:

Boston Edison Company, Pilgrim Station, Plymouth, Massachusetts Alabama Power, Farley Nuclear Plant, Ashford, Alabama

The following sub-facilities are accredited to perform limited volume, emergency response processing employing either a Harshaw 3000 manual reader or manual film processing techniques for the following badges:

G		Film "GARDRAY"	ANSI N13.11 Categories	I, II, III, IV, V, VI, VII
L	-	TLD 4 chip "GARDRAY"		I, II, III, IV, V, VI, VII
T	-	TLD 2 chip	ANSI N13.11 Categories	II, IV, V, VII

R. S. Landauer, Jr. & Company Offices: El Sequndo, California; Houston, Texas; Burlington, Massachusetts; and East Brunswick, New Jersey.

The following sub-facility is accredited to process (4 Chip TLD 700 (L.F.) Harshaw card used with a Harshaw Type 80 Holder the Landauer NSS/PPSL dosimeter) employing a Harshaw automatic reader type 2276 or a manual type 2000A or B by virtue of actual demonstration of compliance with ANSI N13.11-1983 through testing in Categories I, II, III, IV, V, VI, VII.

Pennsylvania Power & Light-N.S.S., 2 North Ninth Street, Allentown, PA 18101

NVLAP LAB CODE 0519

HOUSTON LIGHTING & POWER COMPANY, MANAGING PARTNER SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION P.O. Box 1700, Houston, TX 77059 Gene R. Jarvela Phone: 512-972-3651

Accreditation Renewal Date: October 1, 1986

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-N13.11-1983 through testing.

Panasonic TLD Model UD801 for ANSI-N13.11 category IV.

NVLAP LAB CODE 0520

VIRGINIA ELECTRIC AND POWER COMPANY NORTH ANNA POWER STATION P.O. Box 402, Mineral, VA 23117 Russell R. Irwin Phone: 703-894-5151

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual readers model 8300 and 8310.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BP3 for ANSI-N13.11 categories II, IV, V, VII.

NVLAP LAB CODE 0521

DUQUESNE LIGHT COMPANY NUCLEAR DIVISION - BEAVER VALLEY POWER STATION P.O. Box 4, Shippingport, PA 15077 Robert M. Vento Phone: 412-393-5722

Accreditation Renewal Date: October 1, 1987

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-N13.11-1983 through testing.

Panasonic TLD model UD812 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

NVLAP LAB CODE 0522

CONSUMERS POWER COMPANY PERSONNEL DO SIMETRY LABORATORY 1945 Parnall Road, Jackson, MI 49201 Theodore Allen Phone: 517-788-2340

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Teledyne Automatic reader model 9100.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model BG for ANSI-N13.11 categories II, IV, V, VII.

Teledyne TLD model BGN for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0523

#### VIRGINIA ELECTRIC & POWER COMPANY SURRY POWER STATION P.O. Box 315, Surry, VA 23883 Dean Densmore Phone: 804-357-3184

Accreditation Renewal Date: January 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual reader model 8300.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 for ANSI-N13.11 categories II, IV, V, VII.

NVLAP LAB CODE 0524

YANKEE ATOMIC ELECTRIC COMPANY 1671 Worcester Road, Framingham, MA 01701 Stephen T. Bard Phone: 617-872-8100

Accreditation Renewal Date: October 1, 1986

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2271.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD model BGN for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, and VIII.

OMAHA PUBLIC POWER DISTRICT 1623 Harney Street, Omaha, NE 68102 Marilyn Hawes Phone: 402-536-4696

Accreditation Renewal Date: April 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 2000B and a Harshaw Manual reader model 2000C.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Harshaw TLD model BG for ANSI-N13.11 categories II, IV, V, VII, and Harshaw TLD model GBN for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0526

KANSAS GAS AND ELECTRIC COMPANY WOLF CREEK GENERATING STATION P.O. Box 309, Burlington, KS 66839 Mike Nichols Phone: 316-364-8831

Accreditation Renewal Date: January 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and manual reader 702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, IV, V, VII, VIII.

NVLAP LAB CODE 0528

TEXAS UTILITIES GENERATING COMPANY COMANCHE PEAK STEAM ELECTRIC STATION P.O. Box 2300, Glen Rose, TX 76043 John J. O'Donnell Phone: 817-897-4856

Accreditation Renewal Date: July 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

### DETROIT EDISON COMPANY HEALTH PHYSICS/DOSIMETRY 6400 North Dixie Highway, Newport, MI 48166 Robert Koback Phone: 313-586-1037

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702A.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0530

LOUISIANA POWER AND LIGHT COMPANY WATERFORD 3 STEAM ELECTRIC STATION P.O. Box B, Killona, LA 70066 Ronald C. McLendon Phone: 504-464-3269

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0531

PUBLIC SERVICE ELECTRIC AND GAS COMPANY NUCLEAR DEPARTMENT - RADIATION PROTECTION SERVICES P.O. Box 236, Hancocks Bridge, NJ 08038 Jeffrey L. Kotsch Phone: 609-339-4568

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

SIEMENS GAMMASONICS, INC. 2000 Nuclear Drive, Des Plaines, IL 60018 Robert W. Pollock Phone: 312-635-3396

Accreditation Renewal Date: January 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Atlas reader and Manual film processing using a custom densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Siemens TLD (3 TLD 100, LiF. chips) for ANSI-N13.11 Categories I, II, III, IV, V, VI, VII.

Siemens Film Badge (Kodak Type 3, CR-39) for ANSI-N13.11 Categories III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0533

TELEDYNE ISOTOPES 50 Van Buren Avenue, Westwood, NJ 07675 George Ascione Phone: 201-664-7070

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing Teledyne Automatic readers model 9100 and 9150, and Teledyne Manual readers model 8300 and 7300.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Teledyne TLD model PB3 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII,

and

Teledyne TLD model PB2 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

### GULF STATES UTILITIES - RIVER BEND STATION DOSIMETRY GROUP P.O. Box 220, St. Francisville, LA 70775 Dwight M. Ross Phone: 504-635-6094

Accreditation Renewal Date: July 1, 1987

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-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII, VIII.

NVLAP LAB CODE 0536

ARIZONA NUCLEAR POWER PROJECT-PVNGS P.O. Box 21666, Station 6075, Phoenix, AZ 85036 Michael W. Lantz Phone: 602-932-5300

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD720.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD812 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

Panasonic TLD combination UD809 and UD812 for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0537

PACIFIC GAS AND ELECTRIC DIABLO CANYON POWER PLANT Box 337, Avila Beach, CA 93424 Don Jones Phone: 805-595-7448

Accreditation Renewal Date: October 1, 1987

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing a Panasonic Automatic reader model UD710A and Panasonic Manual reader UD702E.

This facility is accredited to process the following dosimeters by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Panasonic TLD model UD802 for ANSI-N13.11 categories II, III, IV, V, VI, VII, VIII,

and

Panasonic TLD model UD813/802 for ANSI-N13.11 category VIII.

NVLAP LAB CODE 0539

U.S. ARMY IONIZING RADIATION DOSIMETRY CENTER Attn: AMXTM-CE-DC, Lexington, KY 40511 A. Edward Abney Phone: 606-293-3249

Accreditation Renewal Date: January 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeters listed below through employing Manual film processing and using a Macbeth model TD-504 densitometer.

This facility is accredited to process the following dosimeter by virtue of actual demonstration of compliance with ANSI-N13.11-1983 through testing.

Film Badge (Kodak Type 3) for ANSI-N13.11 Categories I, II, III, IV, V, VI, VII.

Film Badge (Kodak Type A) for ANSI-N13.11 Category VIII.

# NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM PROCEDURES

(Title 15, Part 7, of the Code of Federal Regulations)

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AUTHORITY: Sec. 2, 31 Stat 1449 as amended (15 U.S.C. 272); Reorg. Plan No. 3 of 1946, Part VI.

Sec. 7.1 Purpose.

The purpose of Part 7 is to set out procedures under which the National Voluntary Laboratory Accreditation Program (NVLAP) will function.

## Sec. 7.2 Description and goal of NVLAP.

(a) NVLAP is a system for accrediting testing laboratories found competent to perform specific tests or types of tests. Competence is defined as the ability of a laboratory to meet the NVLAP conditions (Section 7.32) and to conform to the criteria (Section 7.33) as tailored and interpreted for the test methods, types of test methods, products, services, or standards for which the laboratory seeks accreditation.

- (b) NVLAP is a voluntary system which:(1) Provides national recognition for competent laboratories;
  - (2) Provides laboratory management with a quality assurance check of the performance of their laboratories;
  - (3) Identifies competent laboratories for use by regulatory agencies, purchasing authorities, and product certification systems; and
  - (4) Provides laboratories with guidance from technical experts to aid them in reaching a higher level of performance resulting in the generation of improved engineering and product information.

(c) NVLAP is comprised of a series of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. The specific test methods, types of test methods, products, services, or standards to be included in a LAP must be requested. The Director of the National Bureau of Standards (NBS) does not unilaterally propose or decide the scope of a LAP. Communication with other laboratory accreditation systems is fostered to encourage development of common criteria and approaches to accreditation and to promote the domestic, foreign, and international acceptance of test data produced by the accredited laboratories.

(d) NVLAP is carried out to be compatible with and recognized by domestic, foreign, and international systems for laboratory accreditation so as to enhance the universal acceptance of test data produced by NVLAP-accredited laboratories.

## Sec. 7.3 Layout of Procedures.

Subpart A describes considerations which relate in general to all aspects of NVLAP. Subpart B describes how new LAPs are requested, developed and announced, and how LAPs are terminated. Subpart C describes procedures for accrediting laboratories. Subpart D sets out the conditions and criteria for NVLAP accreditation.

Sec. 7.4 Definitions.

Accreditation criteria means a set of requirements used by an accrediting body which a laboratory must meet to be accredited.

Advisory Committee means the National Laboratory Accreditation Advisory Committee. Director of NBS means the Director of the National Bureau of Standards or designee. Director of OPSP means the Director of the NBS Office of Product Standards Policy or designee.

Laboratory accreditation is a formal recognition that a testing laboratory is competent to carry out specific tests or types of tests. Laboratory assessment means the on-site examination of a testing laboratory to evaluate its

compliance with specified criteria.

LAP means a laboratory accreditation program established and administered under NVLAP. NBS means the National Bureau of Standards.

NVLAP means the National Voluntary Laboratory Accreditation Program.

OPSP means the NBS Office of Product Standards Policy.

Person means associations, companies, corporations, educational institutions, firms, government agencies at the federal, state and local level, partnerships, and societies-- as well as divisions thereof--and individuals.

Product means a type or a category of manufactured goods, constructions, installations, and natural and processed materials, or those associated services whose characterization, classification, or functional performance is specified by standards or test methods.

Proficiency testing means methods of checking laboratory testing performance by means of interlaboratory tests.

Testing laboratory is a laboratory which measures, examines, tests, calibrates or otherwise determines the characteristics or performance of products.

Traceability of the accuracy of measuring instruments is a documented chain of comparison connecting the accuracy of a measuring instrument to other measuring instruments of higher accuracy and ultimately to a primary standard.

### Sec. 7.5 Establishment and Functions of a National Laboratory Accreditation Advisory Committee.

(a) The Director of NBS shall establish a National Laboratory Accreditation Advisory Committee (Advisory Committee) and appoint its chairperson and members following the filing of a charter setting forth the purpose and nature of the committee.

- (b) The composition of the Advisory Committee will be approximately as follows:

  - (1) One-third from federal, state and local governments;
     (2) One-third from testing laboratories (independent, corporate, and academic); and
  - (3) One-third from users of testing laboratories, academia, consultants, and consumers.

(c) The Advisory Committee will be governed by the Federal Advisory Committee Act (5 U.S.C. App. 2). Persons selected to serve on the Advisory Committee may be paid travel expenses and per diem.

(d) The Advisory Committee shall function solely in an advisory capacity with functions to include the following:

- (1) Assessing the future and continuing role of NVLAP and laboratory accreditation in terms of the changing requirements of industry and commerce;
- (2) Advising on the technical requirements of testing laboratories and those served by the
- (2) Indicatories;
   (3) Advising on the necessity and implementation of proposed amendments to the criteria referenced in Section 7.33;
   (3) The section of the secti
- (4) Evaluating the interaction of other laboratory accreditation systems with NVLAP; and
- (5) Reviewing and giving recommendations on the development of international accreditation activities and assessing the impact of such activities on NVLAP.

(e) The Advisory Committee shall meet periodically as called upon by the Director of the NBS Office of Product Standards Policy (OPSP) or may be consulted through periodic mailings from the Director of OPSP.

# Sec. 7.6 User information.

(a) The Director of OPSP shall prepare and publish at least once each year a directory of accredited laboratories.

(b) The Director of OPSP shall periodically prepare supplements to the directory of accredited laboratories covering new accreditation actions taken, including initial accreditations, renewals, suspensions, terminations, and revocations.

#### Sec. 7.7 Information Collection Requirements.

The information collection requirements contained in these procedures have been approved by the Office of Management and Budget under the Paperwork Reduction Act and have been assigned OMB control number 0652-0003.

## SUBPART B - ESTABLISHING A LAP

Sec. 7.11 Requesting a LAP.

- (a) Any person may request the Director of NBS to establish a LAP.
- (b) Each request must be in writing and must include:
  - (1) The scope of the LAP in terms of products or testing services proposed for inclusion;
  - (2) Specific identification of the applicable standards and test methods including appropriate designations, and the organizations or standards writing bodies having responsibility for them:

(3) A statement of need for the LAP including:

- (i) Technical and economic reasons why the LAP would benefit the public interest:
- (ii) Evidence of a national need to accredit testing laboratories for the specific scope beyond that served by an existing laboratory accreditation program in the public or
- (iii) An estimate of the number of laboratories that may seek accreditation; and
   (iv) An estimate of the number and nature of the users of such laboratories; and
   (4) A statement of the extent to which the requestor is willing to support necessary developmental aspects of the LAP with funding and personnel.

(c) The Director of OPSP may request clarification of the information required by paragraph (b) of this section.

(d) Before determining the need for a LAP, the Director of NBS shall publish a FEDERAL REGISTER notice of the receipt of a LAP request if the request complies with section 7.11(b). The notice will:

- (1) Describe the scope of the requested LAP;
- (2) Indicate how to obtain a copy of the request; and
  (3) State that anyone may submit comments on the need for a LAP to the Director of OPSP within 60 days of the date of the notice.

### Sec. 7.12 LAP development decision.

(a) The Director of NBS shall establish all LAPs on the basis of need. Government agencies and private sector organizations may establish the need by using Sections 7.13 and 7.14.

(b) After receipt of the request, the Director of NBS shall analyze it to determine if a need exists for the requested LAP. In making this determination, the Director of NBS shall consider the following:

- (1) The needs and scope of the LAP initially requested;
- (2) The needs and scope of the user population;(3) The nature and content of other relevant
- The nature and content of other relevant public and private sector laboratory accreditation programs;
- (4) Compatibility with the criteria referenced in Section 7.33;
- (5) The importance of the requested LAP to commerce, consumer well-being, or the public
- (6)
- health and safety; The economic and technical feasibility of accrediting testing laboratories for the test methods, types of test methods, products, services, or standards requested; and Recommendations from written comments for altering the scope of the requested LAP by adding or deleting test methods, types of test methods, products, services, or (7) standards.

(c) If the Director of NBS decides that a need has been demonstrated, and if resources are available to develop a LAP, the Director of OPSP shall notify interested persons of the decision to proceed with development of a LAP.

(d) If the Director of NBS concludes that there is a need for a LAP but there are no resources for development, the Director of OPSP shall notify the requestor and other interested persons of the decision not to proceed until resources become available.

(e) If the Director of NBS decides that a need for a LAP has not been demonstrated, the Director of OPSP shall notify the requestor and other interested persons of the decision and the reasons not to proceed with development of a LAP. Sec. 7.13 Request from a government agency.

(a) Any federal, state or local agency responsible for regulatory or public service programs established under statute or code, which has determined a need to accredit testing laboratories within the context of its programs, may request the Director of NBS to establish a LAP.

(b) Each request must be in writing and must include the information required in Section 7.11(b) and:

- (1) A description of the procedures followed or a citation of the specific authority used to determine the need for a LAP; and (2) For state and local government agencies, a statement of why the LAP should be of national
- scope.

(c) The Director of OPSP may request clarification of the information required by paragraph (b) of this section.

(d) Before deciding to proceed with development of a LAP, the Director of NBS shall publish a FEDERAL REGISTER notice of the receipt of a LAP request. The notice will indicate how to obtain a copy of the request and will state that anyone may submit comments on the need for a LAP to the requesting government agency within 60 days of the date of the notice.

(e) The Director of OPSP shall notify interested persons of the decision to proceed or not to proceed with development of a LAP.

## Sec. 7.14 Request from a private sector organization.

(a) Any private sector organization which has determined a need to accredit testing laboratories for specific products or testing services, may request the Director of NBS to establish a LAP if it uses procedures meeting the following conditions:

- Public notice of meetings and other activities including requests for LAPs is provided in a timely fashion and is distributed to reach the attention of interested persons;
   Meetings are open and participation in activities is available to interested persons;
- (3) Decisions reached by the private sector organization in the development of a request for a LAP represent substantial agreement of the interested persons;
- (4) Prompt consideration is given to the expressed views and concerns of interested persons;
   (5) Adequate and impartial mechanisms for handling substantive and procedural complaints and appeals are in place; and
- (6) Appropriate records of all meetings are maintained and the official procedures used by the private sector organization to make a formal request for a LAP are made available upon request to any interested person.

(b) Each request must be in writing and must include the information required in Section 7.11(b) and a description of the way in which the organization has met the conditions specified in paragraph (a) of this section.

(c) The Director of OPSP may request clarification of the information required by paragraph (b) of this section.

(d) Before deciding to proceed with development of a LAP, the Director of NBS shall publish a FEDERAL REGISTER notice of the receipt of a LAP request. The notice will indicate how to obtain a copy of the request and will state that anyone may submit comments on the need for a LAP to the requesting private sector organization within 60 days of the date of the notice.

(e) The Director of OPSP shall notify interested persons of the decision to proceed or not to proceed with development of a LAP.

# Sec. 7.15 Development of technical requirements.

(a) Technical requirements for accreditation are specific for each LAP. The requirements tailor the criteria referenced in Section 7.33 to the test methods, types of test methods, products, services, or standards covered by the LAP.

(b) The Director of OPSP shall develop the technical requirements based on expert advice. This advice may be obtained through one or more informal public workshops or other suitable means.

(c) The Director of OPSP shall make every reasonable effort to ensure that the affected testing community within the scope of the LAP is informed of any planned workshop. Summary minutes of each workshop will be prepared. A copy of the minutes will be made available for inspection and copying at the NBS Records Inspection Facility.

#### Sec. 7.16 Coordination with federal agencies.

As a means of assuring effective and meaningful cooperation, input, and participation by those federal agencies that may have an interest in and may be affected by established LAPs, the Director of OPSP shall communicate and consult with appropriate officials within those agencies.

Sec. 7.17 Announcing the establishment of a LAP.

(a) When the Director of OPSP has completed the development of the technical requirements of the LAP and established a schedule of fees for accreditation, the Director of OPSP shall publish a notice in the FEDERAL REGISTER announcing the establishment of the LAP.

(b) The notice will:

- (1) Identify the scope of the LAP; and
- (2) Advise how to apply for accreditation.

(c) The Director of OPSP shall establish fees in amounts that will enable the LAP to be The Director of OPSP shall revise the fees when necessary to maintain self-sufficient. self-sufficiency.

## Sec. 7.18 Adding to an established LAP.

Written requests will be considered from any person wishing to add specific standards, test methods, or types of test methods to an established or developing LAP. The Director of OP'SP may

- choose to make them available for accreditation under a LAP when:
   (a) The additional standards, test methods, or types of test methods requested are directly relevant to the LAP;
  - (b) It is feasible and practical to accredit testing laboratories for the additional standards, test methods, or types of test methods; and
    (c) It is likely that laboratories will seek accreditation for the additional standards, test
  - methods, or types of test methods.

#### Sec. 7.19 Termination of a LAP.

(a) The Director of NBS may terminate a LAP when the Director of NBS determines that a need no longer exists to accredit testing laboratories for the products or testing services covered under the scope of the LAP. In the event that the Director of NBS proposes to terminate a LAP, a notice will be published in the FEDERAL REGISTER setting forth the basis for that determination.

(b) The notice published under paragraph (a) of this section will provide a 60-day period for submitting written comments on the proposal to terminate the LAP. All written comments will be made available for public inspection and copying in the NBS Records Inspection Facility.

(c) After the comment period, the Director of NBS shall determine if public support exists for the continuation of the LAP. If public comments support the continuation of the LAP, the Director of NBS shall publish a FEDERAL REGISTER notice announcing the continuation of the LAP. If public support does not exist for continuation, the LAP will be terminated effective 90 days after the date of the published notice of intent to terminate the LAP.

(d) If the LAP is terminated, the Director of OPSP shall no longer grant or renew accreditations following the effective date of termination. Accreditations previously granted will remain effective until their expiration date unless terminated voluntarily by the laboratory or revoked by the Director of OPSP.

#### SUBPART C - ACCREDITING A LABORATORY

## Sec. 7.21 Applying for accreditation.

(a) Any laboratory may request an application for accreditation in any established LAPs in accordance with instructions provided in notices announcing the formal establishment of LAPs.

(b) Upon receipt of a laboratory's application, the Director of OPSP shall:

- Acknowledge receipt of the application;
   Request further information, if necessary;
- (3) Confirm payment of fees before proceeding with the accreditation process; and (4) Specify the next step(s) in the accreditation process.

(c) In accepting an application from a foreign-based laboratory, the Director of OPSP shall take into consideration the policy of the host government regarding the acceptance of test data from laboratories accredited by NVLAP or other foreign accreditation systems.

### Sec. 7.22 Assessing and evaluating a laboratory.

(a) Information used to evaluate a laboratory's compliance with the conditions for accreditation set out in Section 7.32, the criteria for accreditation set out in Section 7.33, and the technical requirements established for each LAP will include:

- On-site assessment reports;
   Laboratory responses to identified deficiencies; and
- (3) Laboratory performance on proficiency tests.

(b) The Director of OPSP shall arrange the assessment and evaluation of applicant laboratories by contract or other means in such a way as to minimize potential conflicts of interest.

(c) The Director of OPSP shall inform each applicant laboratory of any action(s) that the laboratory must take to complete the requirements for assessment and evaluation.

## Sec. 7.23 Granting and renewing accreditation.

(a) The Director of OPSP, after reviewing an evaluation report, shall grant or renew, suspend, or propose to deny or revoke accreditation of an applicant laboratory, no later than 30 days following the date of submittal of the report. If accreditation action is not taken within this time limit, the Director of OPSP shall notify the laboratory stating the reasons for the delay.

- (b) If accreditation is granted or renewed, the Director of OPSP shall:
  - (1) Provide a certificate of accreditation to the laboratory (2) Identify the scope and terms of the laboratory is accredit
  - Identify the scope and terms of the laboratory's accreditation;
  - (2) Identify the scope and terms of the laboratory's accreditation;
    (3) Provide guidance on referencing the laboratory's accredited status, and the use of the NVLAP logo by the laboratory and its clients, as needed; and
    (4) Remind the laboratory that accreditation does not relieve it from complying with applicable federal, state, and local laws and regulations.

(c) The Director of OPSP shall notify an accredited laboratory at least 30 days before its accreditation expires advising of the action(s) the laboratory must take to renew its accreditation.

(d) If an accredited laboratory fails to complete the assessment and evaluation process for renewal before its accreditation expires, the Director of OPSP shall notify the laboratory stating that its accreditation has expired and reiterating the action(s) the laboratory must take to renew its accreditation.

## Sec. 7.24 Denying, suspending, and revoking accreditation.

(a) If the Director of OPSP proposes to deny or revoke accreditation of a laboratory, the Director of OPSP shall inform the laboratory of the reasons for the proposed denial or revocation and the procedure for appealing such a decision.

(b) The laboratory will have 30 days from the date of receipt of the proposed denial or revocation letter to request a hearing under the provisions of 5 U.S.C. 556. If the laboratory requests a hearing, the proposed denial or revocation will be stayed pending the outcome of the hearing held under provisions of 5 U.S.C. 556. The proposed denial or revocation will become final through the issuance of a written decision to the laboratory in the event that the laboratory does not appeal the proposed denial or revocation within that 30-day period.

(c) If the Director of OPSP finds that an accredited laboratory has violated the terms of its accreditation or the provisions of these procedures, the Director of OPSP may, after consultation with the laboratory, suspend the laboratory's accreditation, or advise of his/her intent to revoke its accreditation. If accreditation is suspended, the Director of OPSP shall notify the laboratory of that action stating the reasons for and conditions of the suspension and specifying the action(s) the laboratory must take to have its accreditation reinstated. Conditions of suspension will include prohibiting the laboratory from using the NVLAP logo on its test reports during the suspension period. The determination of the Director of OPSP whether to suspend or to propose revocation of a laboratory's accreditation will depend on the nature of the violation(s) of the terms of its accreditation.

(d) A laboratory whose accreditation has been denied, revoked, terminated, or expired, or which has withdrawn its application before being accredited, may reapply and be accredited if the laboratory:

(1) Completes the assessment and evaluation process; and

(2) Meets the conditions and criteria for accreditation that are set out in Subpart D;

#### Sec. 7.25 Voluntary termination of accreditation.

A laboratory may at any time terminate its participation and responsibilities as an accredited laboratory by advising the Director of OPSP in writing of its desire to do so. The Director of OPSP shall terminate the laboratory's accreditation and shall notify the laboratory stating that its accreditation has been terminated in response to its request.

# SUBPART D - CONDITIONS AND CRITERIA FOR ACCREDITATION

#### Sec. 7.31 Application of accreditation conditions and criteria.

(a) To become accredited and maintain accreditation, a laboratory must meet the conditions for accreditation set out in Section 7.32 and the criteria set out in Section 7.33 as tailored for specific LAPs.

(b) The conditions leading to accreditation include acceptance of the responsibilities of an accredited laboratory and requirements for information disclosure.

(c) The criteria are tailored and interpreted for the test methods, types of test methods, products, services or standards of the relevant LAP. These tailored criteria are the technical requirements for accreditation developed through the procedures of Section 7.15.

(d) In applying the conditions, criteria, and technical requirements for accreditation, the Director of OPSP shall not:

- (1) Prohibit accreditation solely on the basis of a laboratory's affiliation or nonaffiliation with manufacturing, distributing, or vending organizations, or because the laboratory is a foreign firm; or
- (2) Develop, modify, or promulgate test methods, standards, or comparable administrative rules.

## Sec. 7.32 Conditions for accreditation.

- (a) To become accredited and maintain accreditation, a laboratory shall agree in writing to:
  - Be assessed and evaluated initially and on a periodic basis; (1)(2)
  - Demonstrate, on request, that it is able to perform the tests representative of those for which it is seeking accreditation;
  - (3) Pay all relevant fees;
  - $\binom{4}{5}$
  - Participate in proficiency testing as required. Be capable of performing the tests for which it is accredited according to the latest version of the test method within one year after its publication or within another time limit specified by the Director of OPSP;
  - (6) Limit the representation of the scope of its accreditation to only those tests or services for which accreditation is granted;
  - (7) Limit all its test work or services for clients to those areas where competence and capacity are available;
  - (8) Limit advertising of its accredited status to letterheads, brochures, test reports, and professional, technical, trade, or other laboratory services publications, and use the NVLAP logo under guidance provided by the Director of OPSP;
  - (9) Inform its clients that the laboratory's accreditation or any of its test reports in no way constitutes or implies product certification, approval, or endorsement by NBS;
     (10) Maintain records of all actions taken in response to testing complaints for a minimum of
  - one year; (11) Maintain an independent decisional relationship between itself and its
  - clients. affiliates, or other organizations so that the laboratory's capacity to render test reports objectively and without bias is not adversely affected;
  - Report to the Director of OPSP within 30 days any major changes involving the location, ownership, management structure, authorized representative, approved signatories, or facilities of the laboratory; and Return to the Director of OPSP the certificate of accreditation for possible revision or (12)
  - (13) other action should it:
    - (i) be requested to do so by the Director of OPSP;

    - (ii) voluntarily terminate its accredited status; or (iii) become unable to conform to any of these conditions or the applicable criteria of Section 7.33 and related technical requirements.
- (b) To become accredited and maintain accreditation, a laboratory shall supply, upon request, the following information:

  - Legal name and full address;
     Ownership of the laboratory;
  - Organization chart defining relationships that are relevant to performing testing covered in the accreditation request;
  - General description of the laboratory, including its facilities and scope of operation; Name and telephone number of the authorized representative of the laboratory; (4)
  - (5)
  - Names or titles and qualifications of laboratory staff nominated to serve as approved (6) signatories of test reports that reference NVLAP accreditation; and
  - Other information as may be needed for the specific LAP(s) in which accreditation is (7) sought.

Sec. 7.33 Criteria for accreditation.

- (a) Quality System. (1) The laboratory shall operate under an internal quality assurance program appropriate to the type, range, and volume of work performed. The quality assurance program must be designed to ensure the required degree of accuracy and precision of the laboratory's work and should include key elements of document control, sample control, data validation, and corrective action. The quality assurance program must be documented in a quality manual accuracy include to a corrective action of the sample control of the sam or equivalent (e.g., operations notebook) which is available for use by laboratory staff. person(s) must be identified as having responsibility for maintaining the quality manual. A
- (2) The quality manual must include as appropriate:
  - (i) The laboratory's quality assurance policies including procedures for corrective action for detected test discrepancies:
  - (ii) Quality assurance responsibilities for each function of the laboratory;
  - (iii) Specific quality assurance practices and procedures for each test, type of test, or other specifically delineated function performed;
  - (iv) Specific procedures for interlaboratory tests; and retesting, control charts. reference materials. and
  - (v) Procedures for dealing with testing complaints.
- (3) The laboratory shall periodically review its quality assurance system by or on behalf of management to ensure it's continued effectiveness. details of any corrective action taken. These reviews must be recorded with
- (b) <u>Staff</u>. (1) The laboratory shall:
  - (i) Be staffed by individuals having the necessary education, training, technical knowledge, and experience for their assigned functions; and (ii) Have a job description for each professional, scientific, supervisory and technical
- position, including the necessary education, training, technical knowledge, and experience.
- (2) The laboratory shall document the test methods each staff member has been assigned to perform.
- (3) The laboratory shall have a description of its training program for ensuring that new or untrained staff are able to perform tests properly and uniformly to the requisite degree of precision and accuracy.
- (4) The laboratory shall be organized:
  - (i) So that staff members are not subjected to undue pressure or inducement that might influence their judgment or results of their work; and
     (ii) In such a way that staff members are aware of both the extent and the limitation of their
  - area of responsibility.
- (5) The laboratory shall have a technical manager (or similar title) who has overall responsibility for the technical operations of the laboratory.
- (6) The laboratory shall have one or more signatories approved by the Director of OPSP to sign test reports that reference NVLAP accreditation. Approved signatories shall:
   (i) Be competent to make a critical evaluation of test results; and

  - (ii) Occupy positions within the laboratory's organization which makes them responsible for the adequacy of test results.
- (c) Facilities and Equipment. (1) The laboratory shall be furnished with all items of equipment and facilities for the correct performance of the tests and measurements for which accreditation is granted and shall have adequate space, lighting, and environmental control,
- and monitoring to ensure compliance with prescribed testing conditions. (2) All equipment must be properly maintained to ensure protection from corrosion and other causes of deterioration. Instructions for a proper maintenance procedure for those items of equipment which require periodic maintenance must be available. Any item of equipment or component thereof which has been subjected to overloading or mishandling, gives suspect results, or has been shown by calibration or otherwise to be defective, must be taken out of service and clearly labelled until it has been repaired. When placed back in service, this equipment must be shown by test or calibration to be performing its function satisfactorily. (3) Records of each major item of equipment must be maintained. Each record must include:
- - (i) The name of the item of equipment;
  - (ii) The manufacturer's name and type, identification and serial number;
    (iii) Date received and date placed in service;
    (iv) Current location, where appropriate;
    (v) Details of maintenance; and

  - (vi) Date of last calibration, next calibration due date, and calibration report references.

- (d) Calibration. The laboratory shall:
  - (1) Calibrate new testing equipment before putting it into service;
  - (2) Recalibrate, at regular intervals, in-service testing equipment with the calibration status readily available to the operator;
  - (3) Perform checks of in-service testing equipment between the regular calibration intervals, where relevant;
  - (4) Maintain adequate records of all calibrations and recalibrations; and
  - (5) Provide traceability of all calibrations and reference standards of measurement where these standards exist. Where traceability of measurements to primary (national or international) standards is not applicable, the laboratory shall provide satisfactory evidence of the accuracy or reliability of test results (e.g., by participation in a suitable program of interlaboratory comparison).
- (e) Test Methods and Procedures. The laboratory shall:
  - (1) Conform in all respects with the test methods and procedures required by the specifications against which the test item is to be tested, except that whenever a departure becomes necessary for technical reasons the departure must be acceptable to the client and recorded in the test report;
  - (2) Have data to prove that any departures from standard methods and/or procedures due to apparatus design or for other reasons do not detract from the expected or required precision of the measurement;

(3) Maintain a test plan for implementing testing standards and procedures including adequate instructions on the use and operation of all relevant equipment, on the handling and preparation of test items (where applicable), and on standard testing techniques where the absence of such instructions could compromise the test. All instructions,

- testing standards, specifications, manuals, and reference data relevant to the work of the laboratory must be kept up-to-date and made readily available to the staff;
  (4) Maintain measures for the detection and resolution of in-process testing discrepancies for manual and automatic test equipment and electronic data processing equipment, where applicable;
- (5) Maintain a system for identifying samples or items to be tested, which remains in force from the date of receipt of the item to the date of its disposal, either through documents or through marking to ensure that there is no confusion regarding the identity of the samples or test items and the results of the measurements made; and
- (6) Maintain rules for the receipt, retention, and disposal of test items, including procedures for storage and handling precautions to prevent damage to test items which could invalidate the test results. Any relevant instructions provided with the tested item must be observed.
- (f) Records. The laboratory shall:
  - (1) Maintain a record system which contains sufficient information to permit verification of any issued report;
  - (2) Retain all original observations, calculations and derived data, and calibration records for one year unless a longer period is specified; and
  - (3) Hold records secure and in confidence, as required.
- The laboratory shall issue test reports of its work which accurately, (g) Test Reports. (1)clearly, and unambiguously present the specified test results and all required information.
  - Each test report must include the following information as applicable:
    - (i) Name and address of the laboratory
    - (ii) Identification of the test report by serial number, date, or other appropriate means;
    - (iii) Name and address of client;
    - (iv) Description and identification of the test specimen, sample, or lot of material represented;
    - (v) Identification of the test specification, method, or procedure used;
    - (vi) Description of sampling procedure, if appropriate;

    - (vii) Any deviations, additions to, or exclusions from the test specifications;
       (viii) Measurements, examinations, and derived results supported by tables, graphs, sketches, and photographs, as appropriate, and any failures identified;
      - (ix) A statement of measurement uncertainty where relevant; (x) Identification of the organization and the person accepting technical responsibility
      - for the test report and date of issue; (xi) A statement that the report must not be reproduced except in full with the approval of the laboratory; and
      - (xii) A statement to the effect that the test report relates only to the items tested.

- (2) The laboratory shall issue corrections or additions to a test report only by a further document suitably marked, e.g. "Supplement to test report serial number ....," which meets the relevant requirements of Section 7.33(g)(1).
  (3) The laboratory shall retain a copy of each test report issued for one year unless a longer period is specified by the Director of OPSP.
  (4) The laboratory shall ensure that all test reports endorsed with the NVLAP logo are signed by an approved signatory.

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