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1986-87 Directory of NVLAP Accredited Laboratories

Harvey W. Berger, Editor

U.S. DEPARTMENT OF COMMERCE National Bureau of Standards Office of Product Standards Policy Gaithersburg, MD 20899

January 1987



U.S. DEPARTMENT OF COMMERCE

NATIONAL BUREAU OF STANDARDS

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PREFACE

The National Bureau of Standards' National Voluntary Laboratory Accreditation Program (NVLAP) improves the competence of testing laboratories and the reliability of laboratory measurements. Laboratory ability to meet NVLAP criteria and technical requirements, for accreditation of specific test methods, is determined through on-site assessments by technical experts, and laboratory participation in proficiency testing programs. Publication of results of proficiency testing and participation in standards development contribute to improved test methods and laboratory performance.

The accredited laboratories have been found competent to perform the specific test methods shown. 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 pursued its activities to accredit laboratories in testing areas for which there has been a specific request, a demonstrated need, and a potential benefit to the public. 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.

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Director Office of Product Standards Policy

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DIRECTORY OF NVLAP ACCREDITED LABORATORIES

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Introduction

This Directory lists laboratories accredited, under the procedures of the National Voluntary Laboratory Accreditation Program (NVLAP), as of January 1, 1987. Indexes A, B, and C list the accredited laboratories alphabetically by name, by field of testing, and by state, respectively. Each laboratory's scope of accreditation, which lists the specific test methods for which it is accredited, is presented in Index E.

The period of accreditation is generally one year. Since a laboratory can be accredited on January 1, April 1, July 1, or October 1, its accreditation will terminate, and must be renewed by that date to remain in force. Users of this Directory, considering the use of accredited laboratories, should be cognizant of the accreditation renewal date and determine if the laboratory is accredited at the time its services are to be provided. Current information on the accredited status of a laboratory can be obtained from the laboratory or by writing to the following address or calling NVLAP on 301-975-4016.

Manager, Laboratory Accreditation National Bureau of Standards Admin A531 Gaithersburg, MD 20899

Laboratory Participation Summary

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

								Field	of Tes	ting*
	TIM	CON	CAR	STO	ACO	CPL	DOS	SEA	ECT	TOTAL
Initial Accreditations		1			1	2	10	1	14	+27
Terminations	3	3	1	2	1		1			-11
Suspensions	1									- 1
Renewals	1	2								+ 3
Total Accredited Laboratories	35	28	21	9	7	6	44	1	14	165
Change in Total Accredited Labs from December 1984	-2	0	0	-2	-1	+2	+9	0	+14	+20
*										

TIM - Thermal Insulation

CON - Concrete CAR - Carpet

STO - Solid fuel burning heaters

ACO - Acoustics

CPL - Commercial products including paints, paper, and related products

DOS - Radiation dosimetry

SEA - Building seals and sealants ECT - Electromagnetic interference testing The following Indexes list NVLAP-accredited laboratories by NVLAP Code Number, laboratory name, city and state (or country if not the U.S.).

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INDEX A. LISTING BY LABORATORY NAME

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D2D0DELOTEX TRACT PERNTTRACTD101CERTAINTEEDBLUE BELLD108CERTAINTEEDBLUE BELLD140COMMERCIAL TESTING LABSDALTOND120COMMERCIAL TESTING & ENGINEERINGDALTOND121COMMERCIAL TESTINGCHICAGOD122COMMERCIAL TESTINGCALTD124COMMONWEALTH EDISONCHICAGOD227COMMUNICATION CERTIFICATION LABSALT LAKGD238CON EDISON INDIAN POINTBUCHANAND522CONSUMERS POWERJACKSOND190CORONET CARPETDALTOND243CUSTOM COATINGDALTOND243CUSTOM COATINGDALTOND2443CUSTOM COATINGDALTOND251DUQUESNE LIGHTSHIEPPINGD133DOW CHEMICAL, NORTH HAVEN LABSNORTH HAYD505DUKE POWERHUNTERSYD133DYNATECH R & DCAMBRIDGID252D/L LABORATORIESDALTOND355DEERLINE ANALYTICAL/THERMO ELECTRONALBUQUERSD268EMACOSAN DIEGCD161ENGINEERING TESTING LABAKROND155EDERLINE ANALYTICALDOWNERS CD264FLORIDA POWER & LIGHTJUNO BEACD275GAI CONSULTANTSMONROEVIID264FLORIDA POWER & LIGHTJUNO BEACD264FLORIDA POWER & LIGHTJUNO BEACD276GAICAY TESTING LABCHATSWORYD277GOLD BOND BUILDING PRODUCTSGUEZON CD141GENSTAR STONE PRODUCTS </td <td>0259</td> <td>CELOTEY TRACK DI ANT</td> <td>TRACY</td>	0259	CELOTEY TRACK DI ANT	TRACY
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0160CHISHOLM TRAIL TESTING & ENGINEERING 0120DECATUR DALTON0541COMMERCIAL TESTINGDALTON DALTON0541COMMONWEALTH EDISON COMMUNICATION CERTIFICATION LAB SALT LAKE0538CON EDISON INDIAN POINT BUCHANAN0522CONSUMERS POWER CONSUMERS POWER0277CONTINENTAL TESTING LABS CONSCHET CARPET DALTON0243CUSTOM COATING DASH, STRAUS & GOODHUE DOS20270DASH, STRAUS & GOODHUE BOXBOROUE0270DASH, STRAUS & GOODHUE BOXBOROUE0175DOW CHEMICAL, NORTH HAVEN LABS NORTH HAV0103DOW CHEMICAL, NORTH HAVEN LABS NORTH HAV0175DUKE POWER BOXED DUKE POWER DUKE POWER DULS ELECTRONIC SYSTEMS DIJ0130DUKE POWER BORNERS DIALTON0149E & B CARPET MILLS DALTON0278ELITE ELECTRONIC SYSTEMS DALTON0515EBERLINE ANALYTICAL/THERMO ELECTRON DALTON0515EBERLINE ANALYTICAL/THERMO ELECTRON DALTON0515EBERLINE ANALYTICAL0115FACTORY MUTUAL POWER CONSULTANTS DIS DACTORY MUTAL DIAL DALTON0544FLORIDA POWER & LIGHT POWER & LIGHT DUND BEAC DOS440141GENSTAR STONE PRODUCTS GENALY TESTING LAB COSSI GIFFORD-HILL DIAL DOS50279GOLD BOND BUTLDING PRODUCTS GUL BOND BUTLDING PRODUCTS DIALAY TESTING LAB COSSI GIFFORD-HILL DIAL GENSTAR STONE PRODUCTS0274GTE EVALUATION & SUPPORT DEPT LEXINGTON DIALF ANDUKOD DIALF ANDUCLEAR, INC. NEW STER DIALF ANDUCLEAR, INC. NEW STER DIALF AN	0108	CERTIFIED TESTING LABS	DALTON
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0538CON EDISON INDIAN POINTBUCHANAN0522CONSUMERS POWERJACKSON0277CONTINENTAL TESTING LABSFERN PARI0190CORONET CARPETDALTON0243CUSTOM COATINGDALTON0244CUSTOM COATINGDALTON0270DASH, STRAUS & GOODHUEBOXBOROUC0529DETROIT EDISONNEWPORT0103DOW CHEMICALGRANVILLE0175DOW CHEMICAL, NORTH HAVEN LABSNORTH HAY0505DUKE POWERHUNTERSY:0521DUQUESNE LIGHTSHIPPING0133DYNATECH R & DCAMBRIDG0276D.L.S. ELECTRONIC SYSTEMSGLENVIEW0252D/L LABORATORIESNEW YORK0149E & B CARPET MILLSDALTON0515EBERLINE ANALYTICAL/THERMO ELECTRONALBUQUERG0268EMACOSAN DIEGO0276GAILCONSULTANTSMONROEVIL0161ENGINEERING TESTING LABAKRON0115FACTORY MUTUALNORWOOD0544FLORIDA POWER & LIGHTJUND BEAG0279GOLD BOND BUILDING PRODUCTSGUEZON CI0142GEOSCIENCESOLANA BE0279GOLD BOND BUILDING PRODUCTSBUFFALO0274GTE EVALUATION & SUPPORT DEPTLEXINGTOR0275GALF VOLLEAR, INC.WEBSTER0534GULF STATES UTILITIES-RIVER BENDST. FRANC0515HARRIS ENERGY & ENVIRONMENTAL CENTERNADARKO0274GTE EVALUATION & SUPPORT DEPTLEXINGTOR<	0272	COMMUNICATION CERTIFICATION LAB	SALT LAKE
D320CONSUMERS POWERJACKSON0277CONSUMERS POWERJACKSON0273CUSTOM COATINGDALTON0243CUSTOM COATINGDALTON0243CUSTOM COATINGDALTON0243CUSTOM COATINGDALTON0270DASH, STRAUS & GOODHUEBOXBOROUC0529DETROIT EDISONNEWPORT0103DOW CHEMICAL, NORTH HAVEN LABSNORTH HAY0175DOW CHEMICAL, NORTH HAVEN LABSNORTH HAY0505DUKE POWERHUNTERSVI0511DUQUESNE LIGHTSHIPPINGI0113DYNATECH R & DCAMBRIDGI0276D.L.S. ELECTRONIC SYSTEMSGLENVIEW0252D/L LABORATORIESNEW YORK0149E & B CARPET MILLSDALTON0515EBERLINE ANALYTICAL/THERMO ELECTRONALBORATORIES0278ELITE ELECTRONIC ENGINEERINGDOWNERS C0278ELITE ELECTRONIC ENGINEERINGDOWNERS C0268EMACOSAN DIEGI0161ENGINEERING TESTING LABAKRON0115FACTORY MUTUALNORWOOD0544FLORIDA POWER & LIGHTJUNO BEAC0279GEOANALYTICSQUEZON C:0141GENSTAR STONE PRODUCTSWHITE MAY0279GOLD BOND BUILDING PRODUCTSBUFFALO0510GPU NUCLEAR CORP.MIDDLETON0279GOLD BOND BUILDING PRODUCTSBUFFALO0511GARCO TESTING LABORATORYMURSTON0131JULF NUCLEAR, INC.WEBSTER034GU	0539	CON EDISON INDIAN POINT	DUCUANAN
US22CUNSUMERS POWERJACKSON0277CONTINENTAL TESTING LABSFERN PARI0190CORONET CARFETDALTON0243CUSTOM COATINGDALTON0243CUSTOM COATINGDALTON0270DASH, STRAUS & GOODHUEBOXBOROUC0529DETROIT EDISONNEWPORT0103DOW CHEMICAL, NORTH HAVEN LABSNORTH HAY0105DUKE POWERHUNTERSY:0521DUQUESNE LIGHTSHIPPING0113DYNATECH R & DCAMBRIDG0276D.L.S. ELECTRONIC SYSTEMSGLENVIEW0252D/L LABORATORIESNEW YORK0149E & B CARPET MILLSDALTON0515EBERLINE ANALYTICAL/THERMO ELECTRONALBUQUERC0268EMACOSAN DIEGC0161ENGINEERING TESTING LABAKRON0155GARCO TESTING LABAKRON0156GARCO TESTING LABAKRON0157GARCO TESTING LABORATORYMURRAY0141GENSTAR STONE PRODUCTSWHITE MAR0279GEOANALYTICSQUEZON C:0142GEOSCIENCESOLANA BE0253GIFFORD-HILLDE SOTO0229GOLD BOND BUILDING PRODUCTSBUFFALO0511HARDWOOD PLYWOOD MANUFACTURERS ASSOCRSTON0513GULF STATES UTILITIES-RIVER BENDST. FRANG0514FICEAST TESTING LABORATORYWEBSTER0534GULF STATES UTILITIES-RIVER BENDST. FRANG0514HARDWOOD PLYWOOD MANUFACTURERS ASSOCRSTON <td< td=""><td>0770</td><td>CON EDISON INDIAN FUINT</td><td>DUCHANAN</td></td<>	0770	CON EDISON INDIAN FUINT	DUCHANAN
0277CONTINENTAL TESTING LABSFERN PARI0190CORONET CARPETDALTON0243CUSTOM COATINGDALTON0270DASH, STRAUS & GOODHUEBOXBOROUC0529DETROIT EDISONNEWPORT0103DOW CHEMICAL, NORTH HAVEN LABSNORTH HA0175DOW CHEMICAL, NORTH HAVEN LABSNORTH HA0505DUKE POWERHUNTERSVI0521DUQUESNE LIGHTSHIPPING0113DYNATECH R & DCAMBRIDG0276D.L.S. ELECTRONIC SYSTEMSGLENVIEW0252D/L LABORATORIESNEW YORK0149E & B CARPET MILLSDALTON0515EBERLINE ANALYTICAL/THERMO ELECTRONALBUQUERS0268EMACOSAN DIEGO0161ENGINEERING TESTING LABAKRON0115FACTORY MUTUALNORWOOD0544FLORIDA POWER & LIGHTJUND BEAG0257GAI CONSULTANTSMONROEVIL0163GALAXY TESTING LABCHATSWORY0141GENSTAR STONE PRODUCTSQUEZON CI0153GIFFORD-HILLDE SOTO0229GOLD BOND BUILDING PRODUCTSBUFFALO0513GULF COAST TESTING LABORATORYMUDETON0274GTE EVALUATION & SUPPORT DEPTLEXINGTON0274GTE EVALUATION & SUPPORT DEPTLEXINGTON0275GAICO TESTING LABORATORYCORPUS CO0513GULF STATES UTILITIES-RIVER BENDST. FRANG0514HARDWOOD PL'YWOOD MANUFACTURERS ASSOCRESTON0513GULF STATES	0522	CONSUMERS POWER	JACKSON
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AI MELLIND	MN
RINCCOLD	CA
LANCASTER	PΔ
I TNDEN	N.T
PHOENIX	AZ
TEMPE	AZ
LANCASTER	PA
AUBURN	MA
BALTIMORE	MD
CICERO	NY
HOLMDEL	NJ
LUSBY	MD
JAMESBURG	NJ
SUMMERVILLE	GA
GREENVILLE	SC
NORTH HIGHLANDS	CA
LOS ANGELES	CA
TRACY	CA
BLUE BELL	PA
DALTON	GA
DECATUR	ТΧ
DALTON	GA
CHICAGO	IL
SALT LAKE CITY	UT
BUCHANAN	NY
JACKSON	MI
FERN PARK	FL.
DALTON	GA
DALTON	GA
BOXBOROUGH	MA
NEWPORT	MI
GRANVILLE	OH
NURTH HAVEN	UT
HUNTERSVILLE	NC
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SHIPPINGPORT	PA
SHIPPINGPORT CAMBRIDGE	PA MA
SHIPPINGPORT CAMBRIDGE GLENVIEW	PA MA IL
SHIPPINGPORT CAMBRIDGE GLENVIEW NEW YORK	PA MA IL NY
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SHIPPINGPORT CAMBRIDGE GLENVIEW NEW YORK DALTON ALBUQUERQUE DOWNERS CROVE	PA MA IL NY GA NM
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0248	KNAUF FIBER GLASS RESEARCH	SHELBYVILLE	IN
0215	L INCOLN-DEVORE	COLORADO SPRINGS	CO
0530	LOUISIANA POWER & LIGHT CO	KILLONA	LA
0259	MACMILLAN BLUEDEL	MADY AND HETCHTS	AL
0123	MALLINCKROUT DIAGNUSTICS	DENVER	CO
0273	MET ELECTRICAL TESTING	BALTIMORE	MD
0546	MISSISSIPPI POWER & LIGHT	PORT GIBSON	MS
0104	NAHB RESEARCH FOUNDATION	ROCKVILLE	MD
0504	NAVAL MEDICAL COMMAND	BETHESDA	MD
0509	NAVAL RESEARCH LABORATORY	WASHINGTON	DC
0543	NEW HAMPSHIRE YANKEE, SEABRUOK STA	SEABROOK	NJ
0508	NEW YORK POWER AUTHORITY - INDIAN POINT	BUCHANAN	NV
0220	NEW TURK FUNCK AUTHORITY-LICUMING		TΔ
0209	NORTHEAST LITELITIES SERVICE	HARTFORD	ĈT
0244	NORTHWEST TESTING LABS	PORTLAND	OR
0525	OMAHA PUBLIC POWER DISTRICT	OMAHA	NE
0240	OMNI ENVIRONMENTAL SERVICES	BEAVERTON	OR
0109	OWENS CORNING FIBERGLAS	GRANVILLE	OH
0124	UWENS CURNING FIBERGLAS	SANTA ULARA	CA
0122	OWENS CORNING FIELRGLAS	KUNCUC CITY	UC
0128	OWENS CORNING FIBERGLAS	DELMAR	NY
0129	OWENS CORNING FIBERGLAS	NEWARK	OH
0130	OWENS CORNING FIBERGLAS	WAXAHACHIE	TX
0537	PACIFIC GAS & ELECTRIC	AVILA BEACH	CA
0223	PFS CORPORATION	MADISON	WI
0237	PITTSBURGH TESTING LABORATORY	SYRACUSE	NY
0201	PIL-INSPECTORALE	HANCOCKS PRIDCE	PA
0280	R & B ENTERPRISES	WEST CONSHOHOCKEN	PA
0261	RADCO	GARDENA	CA
0512	RADIATION DETECTION	SUNNYVALE	CA
0267	RETLIF TESTING LABORATORIES	RONKONKOMA	NY
0232	RITCHIE LABORATORIES	WICHITA	KS
0514	RIVERBANK ACCUSTICAL LAB OF IIT	CHICAGO	TL.
0518	R. S. LANDAUER, TR/TECH OPSDIV	GLENWOOD	TI
0245	R.F. GEISSER AND ASSOC	EAST PROVIDENCE	RI
0206	R.W. SIDLEY	THOMPSON	OH
0221	SALEM CARPET LABORATORY	RINGGOLD	GA
0264	SHAW INDUSTRIES	DALION SONTA FE	GA
0204	STEMENS COMMOSONICS	DES DI ATNES	TI
0192	SMITH-FMFRY	LOS ANGELES	ĈÃ
0547	SOUTH CAROLINA ELECTRIC & GAS	COLUMBIA	SC
0506	SOUTHERN CALIFORNIA EDISON	SAN CLEMENTE	CA
0121	SPARRELL ENGINEERING RESEARCH	DAMARISCOTTA	ME
0281	STANDARD T CHEMICAL/TECHNICAL CTR	CHICAGO HEIGHIS	1L
0233	STRATTUN LABORATURIES	CARIERSVILLE	GA VA
0191	STS CONSULTANTS	NORTHBROOK	ŤĹ.
0122	TECHNICAL MICRONICS CONTROL	HUNTSVILLE	AL
0533	TELEDYNE ISOTOPES	WESTWOOD	NJ
0516	TENNESSEE VALLEY AUTHORITY	MUSCLE SHOALS	AL
0196	TEXAS TESTING LABORATORY	DALLAS	TX
0528	TEXAS UTILITIES GENERATING	GLEN ROSE	IX MN
0100	INDEDWOTTEDS I ADDATODIES		TI
0117	UNDERWRITERS LABORATORIES	SANTA CLARA	ĈA
0255	UNDERWRITERS LABORATORIES	MELVILLE	NY
0502	UNION ELECTRIC	FULTON	MO
0105	UNITED STATES TESTING	HOBOKEN	NJ
0106	UNITED STATES TESTING	LUS ANGELES	CA
0264	UNITED STATES TESTING	HOROKEN	NI
0241	UNITED STATES TESTING WESTERN STATES	MODESTO	CA
0539	US ARMY IONIZING RADIATION DOS CTR	LEXINGTON	KY
0216	USG	LIBERTYVILLE	IL
0230	VIRGINIA CONCRETE LABORATORY	SPRINGFIELD	VA
0520	VIRGINIA ELECTRIC & POWER, MINERAL	MINERAL	VA
012	VIRGINIA ELECTRIC & PUWER, SURRI	JUNT	ALL .

0133	WALT KEELER	WICHITA	KS
0249	WARNOCK HERSEY INT'L	MIDDLETON	WI
0545	WASHINGTON PUBLIC POWER SUPPLY SYSTEM	RICHLAND	WA
0256	WESTERN ELECTRO-ACOUSTIC LAB	SANTA MONICA	CA
0265	WEYERHAEUSER TECHNOLOGY CENTER	TACOMA	WA
0263	WHITTAKER ANALYTICAL SERVICES	COLTON	CA
0226	WISS, JANNEY, ELSTNER AND ASSOCIATES	NORTHBROOK	IL
0197	WORLD CARPETS	DALTON	GA
0176	W. R. GRACE	CAMBRIDGE	MA
0250	W. R. GRACE	CAMBRIDGE	MA
0524	YANKEE ATOMIC ELECTRIC	FRAMINGHAM	MA

INDEX B. LISTING BY FIELD OF TESTING

acoustics

0111	JIM WALTER RESEARCH	ST. PETERSBURG	FL
0123	MANVILLE	DENVER	CO
0227	RIVERBANK ACOUSTICAL LAB OF IIT	CHICAGO	IL
0228	ARMSTRONG WORLD INDUSTRIES	LANCASTER	PA
0229	GOLD BOND BUILDING PRODUCTS	BUFFALO	NY
0239	HOUGH ACOUSTICAL LABORATORY	JAMESVILLE	WI
0256	WESTERN ELECTRO-ACOUSTIC LAB	SANTA MONICA	CA

carpet

0105	UNITED STATES TESTING	HOBOKEN	NЭ
0106	UNITED STATES TESTING	LOS ANGELES	CA
0108	CERTIFIED TESTING LABS	DALTON	GA
0115	FACTORY MUTUAL	NORWOOD	MA
0120	COMMERCIAL TESTING	DALTON	GA
0139	AMERICAN CARPET LABS	RINGGOLD	GA
0149	E & B CARPET MILLS	DALTON	GA
0151	HARDWOOD PLYWOOD MANUFACTURERS ASSOC	RESTON	VA
0156	BIGELOW SANFORD	SUMMERVILLE	GA
0160	CHISHOLM TRAIL TESTING & ENGINEERING	DECATUR	ТΧ
0163	GALAXY TESTING LAB	CHATSWORTH	GA
0166	INDEPENDENT TEXTILE TESTING	DALTON	GA
0178	BIGELOW SANFORD	GREENVILLE	SC
0190	CORONET CARPET	DALTON	GA
0193	SHAW INDUSTRIES	DALTON	GA
0197	WORLD CARPETS	DALTON	GA
0220	STRATTON LABORATORIES	CARTERSVILLE	GA
0221	SALEM CARPET LABORATORY	RINGGOLD	GA
0243	CUSTOM COATING	DALTON	GA
0247	HOLLYTEX CARPET MILL	ANADARKO	OK

concrete

0131	H.C. NUTTING	CINCINNATI
0133	WALT KEELER	WICHITA
0135	AGUIRRE ENGINEERS	ENGLEWOOD
0141	GENSTAR STONE PRODUCTS	WHITE MARSH
0146	AMERICAN TESTING LABS	LANCASTER
0154	ARUNDEL	BAL TIMORE
0161	ENGINEERING TESTING LAB	AKRON
0176	W. R. GRACE	CAMBRIDGE
0177	ATLANTIC TESTING LABS	CICERO
0183	A & H/FLOOD ENGINEERING	HILL STOF
0188	TWIN CITY TESTING AND ENGINEERING	ST. PALI
0101	CTC CONCLUTANTS	NOPTURDOOK
0102	SIS CONSOLIANTS	
0192		LUS ANGELES
0195	GARCO TESTING LABORATORY	MURRAY
0196	TEXAS TESTING LABORATORY	DALLAS
0201	PTL-INSPECTORATE	PITTSBURGH
0203	CALMAT CO/CONROCK DIV TESTING LAB	LOS ANGELES
0206	R.W. SIDLEY	THOMPSON
0208	GULF COAST TESTING LABORATORY	CORPUS CHRISTI
0215	I INCOLN-DEVORE	COLORADO SPRINGS
0230	VIRGINIA CONCRETE LABORATORY	SPRINGETELD
0232	DITCUTE I ADADATADICS	WICHITA
0222	KTICHTE FNDOLWIOKTED	WICHIIA

OKCDDADHAYLNLATXAAHXOXK

0233 0237 0241 0253 0257 0279	STS CONSULTANTS PITTSBURGH TESTING LABORATORY UNITED STATES TESTING WESTERN STATES GIFFORD-HILL GAI CONSULTANTS GEOANALYTICS	FAIRFAX SYRACUSE MODESTO DE SOTO MONROEVILLE QUEZON CITY, PHIL	VA NY CA TX PA IPPINES
	paint		
0252 0263 0266 0281	D/L LABORATORIES WHITTAKER ANALYTICAL SERVICES UNITED STATES TESTING STANDARD T CHEMICAL/TECHNICAL CTR	NEW YORK COLTON HOBOKEN CHICAGO HEIGHTS	NY CA NJ IL
	Paper		
0259 0265	MACMILLAN BLOEDEL WEYERHAEUSER TECHNOLOGY CENTER	PINE HILL TACOMA	AL WA
	dosimetry		
0501 0502 0503 0504 0505 0506 0508 0509 0511 0512 0513 0514 0515 0516 0516 0516 0517 0518 0520 0521 0522 0523 0524 0525 0524 0525 0528 0529 0530 0531 0532 0533 0534 0533 0534 0533 0534 0533 0534 0533 0534 0533 0534 0535 0534 0535 0546 0545 0545 0546 0546	BALTIMORE GAS & ELECTRIC UNION ELECTRIC MALLINCKRODT DIAGNOSTICS NAVAL MEDICAL COMMAND DUKE POWER SOUTHERN CALIFORNIA EDISON NEW YORK POWER AUTHORITY-INDIAN POINT NAVAL RESEARCH LABORATORY GPU NUCLEAR CORP. NEW YORK POWER AUTHORITY-LYCOMING RADIATION DETECTION GULF NUCLEAR, INC. ROCHESTER GAS & ELECTRIC EBERLINE ANALYTICAL/THERMO ELECTRON TENNESSEE VALLEY AUTHORITY HARRIS ENERGY & ENVIRONMENTAL CENTER R. S. LANDAUER, JR/TECH OPSDIV HOUSTON LIGHTING & POWER VIRGINIA ELECTRIC & POWER, MINERAL DUQUESNE LIGHT CONSUMERS POWER VIRGINIA ELECTRIC & POWER, SURRY YANKEE ATOMIC ELECTRIC OMAHA 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 CONSIDISIN INDIAN POINT US ARMY IONIZING RADIATION DOS CTR NORTHEAST UTILITIES SERVICE COMMONWEALTH EDISON NEW HAMPSHIRE YANKEE, SEABROOK STA FLORIDA POWER & LIGHT WASHINGTON PUBLIC POWER SUPPLY SYSTEM MISSISSIPPI POWER & LIGHT ARIZONA STATE UNIVERSITY SOUTH CAROLINA ELECTRIC & GAS	LUSBY FULTON MARYLAND HEIGHTS BETHESDA HUNTERSVILLE SAN CLEMENTE BUCHANAN WASHINGTON MIDDLETOWN LYCOMING SUNNYVALE WEBSTER ONTARIO ALBUQUERQUE MUSCLE SHOALS NEW HILL GLENWOOD HOUSTON MINERAL SHIPPINGPORT JACKSON SURRY FRAMINGHAM OMAHA BURLINGTON GLEN ROSE NEWPORT KILLONA HANCOCKS BRIDGE DES PLAINES WESTWOOD ST. FRANCISVILLE PHOENIX AVILA BEACH BUCHANAN LEXINGTON HARTFORD CHICAGO SEABROOK JUNO BEACH RICHLAND PORT GIBSON TEMPE COLUMBIA	MM MM NC ND PN CTNN AN IIX AA IIA AE SX IIA JL JA ZA YY TL JL AS ZS
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0267 0268 0269 0270 0271	RETLIF TESTING LABORATORIES EMACO NORAND EMC TEST LAB DASH, STRAUS & GOODHUE AMADOR	RONKONKOMA SAN DIEGO CEDAR RAPIDS BOXBOROUGH ALMELUND	NY CA IA MA

0272 0255 0273 0275 0274 0276 0277 0278 0280	COMMUNICATION CERTIFICATION LAB UNDERWRITERS LABORATORIES MET ELECTRICAL TESTING AT&T INFORMATIONS SYSTEMS EMC LAB GTE EVALUATION & SUPPORT DEPT D.L.S. ELECTRONIC SYSTEMS CONTINENTAL TESTING LABS ELITE ELECTRONIC ENGINEERING R & B ENTERPRISES	SALT LAKE CITY MELVILLE BALTIMORE HOLMDEL LEXINGTON GLENVIEW FERN PARK DOWNERS GROVE WEST CONSHOHOCKEN	UT NY MD NJ KY IL FL IL PA
	seals and sealants		
0252	D/L LABORATORIES	NEW YORK	NY
	thermal insulation		
0116 0117 0223 0240 0244 0245 0249 0244 0101 0103 0104 0105 0106 0107 0109 0111 0113 0115 0116 0117 0120 0121 0122 0123 0124 0125 0126 0128 0246 0248 0250 0241 0258 0260 0261 0261 0261 0258 0260 0261 0261 0261 0265	UNDERWRITERS LABORATORIES UNDERWRITERS LABORATORIES PFS CORPORATION ARNOLD GREENE TESTING LABORATORY OMNI ENVIRONMENTAL SERVICES NORTHWEST TESTING LABS R.F. GEISSER AND ASSOC WARNOCK HERSEY INT'L SHELTON RESEARCH CERTAINTEED DOW CHEMICAL NAHB RESEARCH FOUNDATION UNITED STATES TESTING 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 TECHNICAL MICRONICS CONTROL MANVILLE OWENS CORNING FIBERGLAS OWENS CORNING FIBERGLAS SECONCIENCE DOW CHEMICAL, NORTH HAVEN LABS TWIN CITY TESTING AND ENGINEERING INSTA-FOAM PRODUCTS WISS, JANNEY, ELSTNER AND ASSOCIATES KNAUF FIBER GLASS RESEARCH W. R. GRACE CALIFORNIA DEPT. OF CONSUMER AFFAIRS CELOTEX TRACY PLANT BASF STYROPOR TECHNICAL CENTER RADCO	NDRTHBROOK SANTA CLARA MADISON AUBURN BEAVERTON PORTLAND EAST PROVIDENCE MIDDLETON SANTA FE BLUE BELL GRANVILLE ROCKVILLE HOBOKEN LOS ANGELES TULSA GRANVILLE ST. PETERSBURG CAMBRIDGE NORWOOD NORTHBROOK SANTA CLARA DALTON DAMARISCOTTA HUNTSVILLE DENVER SANTA CLARA DALTON DAMARISCOTTA HUNTSVILLE DENVER SANTA CLARA FAIRBURN KANSAS CITY DELMAR NEWARK WAXAHACHIE SOLANA BEACH NORTH HAVEN ST. PAUL JOLIET LIBERTYVILLE LINDEN NORTHBROOK SHEL BYVILLE CAMBRIDGE NORTH HIGHLANDS TRACY JAMESBURG GARDENA	ICANACRINE NACHDJAKHLAAMICAAMICAASYHXACTNILIJINACAAJA
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0122 0259 0516 0536 0542 0106 0117 0124 0142 0192	TECHNICAL MICRONICS CONTROL MACMILLAN BLOEDEL TENNESSEE VALLEY AUTHORITY ARIZONA NUCLEAR POWER PROJECT ARIZONA STATE UNIVERSITY UNITED STATES TESTING UNDERWRITERS LABORATORIES OWENS CORNING FIBERGLAS GEOSCIENCE SMITH-EMERY	HUNTSVILLE PINE HILL MUSCLE SHDALS PHOENIX TEMPE LOS ANGELES SANTA CLARA SOLANA BEACH LOS ANGELES	AL AL AZ CA CA CA CA

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0203	CALMAT CO/CONROCK DIV TESTING LAB	LOS ANGELES	CA
0241	UNITED STATES TESTING WESTERN STATES	MODESTO	CA
0251	CALIFORNIA DEPT. OF CONSUMER AFFAIRS	NORTH HIGHLANDS	CA
0256	WESTERN ELECTRO-ACOUSTIC LAB	SANTA MONICA	CA
0258	CELUIEX IRACY PLANT	IRACY CALENTE	CF
0500	SUUTAERN CALIFURNIA EDISUN	SAN CLEMENTE	
0512	RADIATION DETECTION	AVILA DEACH	
02/1	PACIFIC GAS & ELECTRIC	AVILA BEACH	
0261	WHITTAKED ANALYTICAL SERVICES		
0202	WHITTAKER ANALITICAL SERVICES	SAN DIECO	
0200		DENVED	
0135		ENCLEWOOD	
0215		COLORADO SPRINGS	
0175	DOW CHEMICAL, NORTH HAVEN LARS	NORTH HAVEN	C1
0540	NORTHEAST UTILITIES SERVICE	HARTFORD	ci
0509	NAVAL RESEARCH LABORATORY	WASHINGTON	DC
0111	JIM WALTER RESEARCH	ST. PETERSBURG	FL
0544	FLORIDA POWER & LIGHT	JUND BEACH	FL
0277	CONTINENTAL TESTING LABS	FERN PARK	FL
0108	CERTIFIED TESTING LABS	DALTON	Gł
0120	COMMERCIAL TESTING	DALTON	GA
0125	OWENS CORNING FIBERGLAS	FAIRBURN	GA
0139	AMERICAN CARPET LABS	RINGGOLD	GA
0149	E & B CARPET MILLS	DALTON	GA
01/2	BIGELOW SANFORD	SUMMERVILLE	GA
0165	GALAXY TESTING LAB	CHAISWURTH	GA
0100	INDEPENDENT TEXTILE TESTING	DALTON	GF
0193			Gr Cr
0197	WORLD CARPETS		G
0220	STRATTON LABORATORIES	CARTERSVILLE	GA
0221	SALEM CARPET LABORATORY	RINGGOLD	G
0243	CUSTOM COATING	DALTON	GA
0269	NORAND EMC TEST LAB	CEDAR RAPIDS	IA
0116	UNDERWRITERS LABORATORIES	NORTHBROOK	IL
0183	A & H/FLOOD ENGINEERING	HILL SIDE	IL
0191	STS CONSULTANTS	NURTHBRUUK	
0216	INSTA-FUAM PRUDUCTS	JULIEI	
0210	WISS JANNEY ELSTNED AND ASSOCIATES	NORTHRROOK	- TI
0227	RIVERBANK ACCUSTICAL LAB OF ITT	CHICAGO	TL
0518	R. S. LANDAUER. JR/TECH OPSDIV	GLENWOOD	IL
0532	SIEMENS GAMMASONICS	DES PLAINES	IL
0541	COMMONWEALTH EDISON	CHICAGO	IL
0276	D.L.S. ELECTRONIC SYSTEMS	GLENVIEW	IL
0278	ELITE ELECTRONIC ENGINEERING	DOWNERS GROVE	IL
0281	STANDARD T CHEMICAL/TECHNICAL CTR	CHICAGO HEIGHTS	IL
0248	KNAUF FIBER GLASS RESEARCH	SHELBYVILLE	IN
0126	OWENS CORNING FIBERGLAS	KANSAS CITY	KS
0133	WALT KEELER	WICHITA	KS
0232	KITCHIE LABORATORIES	WICHITA	- KS
0526	KANSAS GAS & ELECTRIC	BURLINGTON	- KS
0229	OTE EVALUATION & CUEDODT DEDT		
0274	LOUISTANA DOWED & LICHT CO	KTI LONA	
053/	CHIE STATES UTTITIES DIVED DEND	ST EDANCISVILLE	
0113	DYNATECH R & D	CAMBRIDGE	MA
0115	FACTORY MUTUAL	NORWOOD	MA
0176	W. R. GRACE	CAMBRIDGE	MA
0250	W. R. GRACE	CAMBRIDGE	MA
0225	ARNOLD GREENE TESTING LABORATORY	AUBURN	MA
0524	YANKEE ATOMIC ELECTRIC	FRAMINGHAM	MA
0270	DASH, STRAUS & GOODHUE	BOXBOROUGH	MA
0104	NAHB RESEARCH FOUNDATION	ROCKVILLE	MD
0141	GENSTAR STUNE PRODUCTS	WHITE MARSH	MD
0104	ARUNUEL PALITIMORE CAS & ELECTRIC	DAL LIMUKE	MD
0504	NAVAL MEDICAL COMMAND	RETHESDA	M
0273	MET ELECTRICAL TESTING	BALTIMORE	MD
0121	SPARRELL ENGINEERING RESEARCH	DAMARISCOTTA	ME
0522	CONSUMERS POWER	JACKSON	MI
0529	DETROIT EDISON	NEWPORT	MI

0188	TWIN CITY TESTING AND ENGINEERING	ST. PAUL	MN
0271	AMADOR	ALMELUND	MN
0502	UNION ELECTRIC	FULTON	MO
0503	MALLINCKRODT DIAGNOSTICS	MARYLAND HEIGHTS	MO
0505	MISSISSIPPI PUWER & LIGHI	PURI GIBSUN	MS
0517	HARRIS ENERGY & ENVIRONMENTAL CENTER	NEW HTLL	NC
0525	OMAHA PUBLIC POWER DISTRICT	OMAHA	NE
0105	UNITED STATES TESTING	HOBOKEN	БИ
0266	UNITED STATES TESTING	HOBOKEN	NJ
0218	APACHE BUILDING PRODUCTS	LINDEN	LИ
0531	PUBLIC SERVICE ELECTRIC & GAS	HANCOCKS BRIDGE	UЛ
0533	TELEDYNE ISOTOPES	WESTWOOD	UЛ
0543	NEW HAMPSHIRE YANKEE, SEABROOK STA	SEABROOK	СИ
0260	BASE STYRUPUR TECHNICAL CENTER	JAMESBURG	NJ
02/2	EREDITINE ANALYTICAL /THERMO STEPTENN		NU
0264	SHELTON RESEARCH	SANTA FF	NM
0128	OWENS CORNING FIBERGLAS	DFIMAR	NY
0177	ATLANTIC TESTING LABS	CICERO	NY
0229	GOLD BOND BUILOING PRODUCTS	BUFFALO	NY
0237	PITTSBURGH TESTING LABORATORY	SYRACUSE	NY
0252	O/L LABORATORIES	NEW YORK	NY
0508	NEW YORK POWER AUTHORITY-INDIAN POINT	BUCHANAN	NY
0511	NEW YORK POWER AUTHORITY-LYCOMING	LYCOMING	NY
0514	ROCHESTER GAS & ELECTRIC	ONTARIO	NY
0528	CON EDISON INDIAN PUINT	BUCHANAN	NY
0252	U/L LABUKATUKIES	NEW YURK	NT
0267	LINDERWRITERS LABORATORIES	MELVILLE	NV
0103	DOW CHEMICA	GRANVILLE	ПH.
0109	OWENS CORNING FIBERGLAS	GRANVILLE	OH
0129	OWENS CORNING FIBERGLAS	NEWARK	ÕН
0131	H.C. NUTTING	CINCINNATI	OH
0161	ENGINEERING TESTING LAB	AKRON	OH
0206	R.W. SIDLEY	THOMPSON	OH
0107	UNITED STATES TESTING	TULSA	OK
0247	HULLYTEX CARPET MILL	ANAUARKU	UK
0240	UMINI ENVIRUNMENTAL SERVICES	BEAVERIUN DODTLAND	
0244		RULE RELL	PA
0146	AMERICAN TESTING LABS	LANCASTER	PA
0201	PTL-INSPECTORATE	PITTSBURGH	PA
0228	ARMSTRONG WORLD INDUSTRIES	LANCASTER	PA
0257	GAI CONSULTANTS	MONROEVILLE	PA
0510	GPU NUCLEAR CORP.	MIDDLETOWN	PA
0521	DUQUESNE LIGHT	SHIPPINGPORT	PA
0280	R & B ENTERPRISES	WEST CONSHOHOCKEN	PA
0179	K.F. GEISSER AND ASSUC	CREENVILLE	KT
01/0	SOUTH CAROLINA ELECTRIC & CAS	COLIMBIA	SC
0130	OWENS CORNING FIBERGIAS	WAXAHACHTE	TX
0160	CHISHOLM TRAIL TESTING & ENGINEERING	DECATUR	TX
0196	TEYNS TESTING LADODATODY	DALLAS	TV
0208	IEAAS IESIING LADUKATUKT	UHLLMO	10
0253	GULF COAST TESTING LABORATORY	CORPUS CHRISTI	ŤX
02))	GULF COAST TESTING LABORATORY GIFFORD-HILL	CORPUS CHRISTI DE SOTO	TX TX
0513	GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC.	CORPUS CHRISTI OE SOTO WEBSTER	TX TX TX TX
0513 0519	GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON	
0513 0519 0528	GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE	
0513 0519 0528 0195 0272	GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING GARCO TESTING LABORATORY COMMUNICATION CERTIFICATION LAB	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE MURRAY	
0513 0519 0528 0195 0272 0151	GULF COAST TESTING LABORATORY GULF COAST TESTING LABORATORY GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING GARCO TESTING LABORATORY COMMUNICATION CERTIFICATION LAB HARDWOOD PLYWOOD MANUFACTURERS ASSOC	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE MURRAY SALT LAKE CITY RESTON	
0513 0519 0528 0195 0272 0151 0230	GULF COAST TESTING LABORATORY GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING GARCO TESTING LABORATORY COMMUNICATION CERTIFICATION LAB HARDWOOD PLYWOOD MANUFACTURERS ASSOC VIRGINIA CONCRETE LABORATORY	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE MURRAY SALT LAKE CITY RESTON SPRINGFIFI D	
0513 0519 0528 0195 0272 0151 0230 0233	GULF COAST TESTING LABORATORY GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING GARCO TESTING LABORATORY COMMUNICATION CERTIFICATION LAB HARDWOOD PLYWOOD MANUFACTURERS ASSOC VIRGINIA CONCRETE LABORATORY STS CONSULTANTS	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE MURRAY SALT LAKE CITY RESTON SPRINGFIELD FAIRFAX	TX TX TX TX TX TX TX TX TX TX TX TX TX T
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0513 0519 0528 0195 0272 0151 0230 0233 0520 0523 0545 0265	GULF COAST TESTING LABORATORY GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING GARCO TESTING LABORATORY COMMUNICATION CERTIFICATION LAB HARDWOOD PLYWOOD MANUFACTURERS ASSOC VIRGINIA CONCRETE LABORATORY STS CONSULTANTS VIRGINIA ELECTRIC & POWER, MINERAL VIRGINIA ELECTRIC & POWER, SURRY WASHINGTON PUBLIC POWER SUPPLY SYSTEM WEYERHAEUSER TECHNOLOGY CENTER	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE MURRAY SALT LAKE CITY RESTON SPRINGFIELD FAIRFAX MINERAL SURRY RICHLAND TACOMA	TXXXXXTUUVAVAVAVA
0513 0519 0528 0195 0272 0151 0230 0233 0520 0523 0545 0265 0223 0223	GULF COAST TESTING LABORATORY GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING GARCO TESTING LABORATORY COMMUNICATION CERTIFICATION LAB HARDWOOD PLYWOOD MANUFACTURERS ASSOC VIRGINIA CONCRETE LABORATORY STS CONSULTANTS VIRGINIA ELECTRIC & POWER, MINERAL VIRGINIA ELECTRIC & POWER, SURRY WASHINGTON PUBLIC POWER SUPPLY SYSTEM WEYERHAEUSER TECHNOLOGY CENTER PFS CORPORATION	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE MURRAY SALT LAKE CITY RESTON SPRINGFIELD FAIRFAX MINERAL SURRY RICHLAND TACOMA MADISON DMESVILLE	
0513 0519 0528 0195 0272 0151 0230 0523 0523 0545 0265 0223 0249	GULF COAST TESTING LABORATORY GULF COAST TESTING LABORATORY GIFFORD-HILL GULF NUCLEAR, INC. HOUSTON LIGHTING & POWER TEXAS UTILITIES GENERATING GARCO TESTING LABORATORY COMMUNICATION CERTIFICATION LAB HARDWOOD PLYWOOD MANUFACTURERS ASSOC VIRGINIA CONCRETE LABORATORY STS CONSULTANTS VIRGINIA ELECTRIC & POWER, MINERAL VIRGINIA ELECTRIC & POWER, SURRY WASHINGTON PUBLIC POWER SUPPLY SYSTEM WEYERHAEUSER TECHNOLOGY CENTER PFS CORPORATION HOUGH ACOUSTICAL LABORATORY WARNOCK HERSEY INTU	CORPUS CHRISTI OE SOTO WEBSTER HOUSTON GLEN ROSE MURRAY SALT LAKE CITY RESTON SPRINGFIELD FAIRFAX MINERAL SURRY RICHLAND TACOMA MADISON JAMESVILLE MIDDI FTON	

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Index D. Summary of Accredited Laboratories by Test Method and Field of Testing.

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0538		0	0	0	0	0	0	0
0539	0	0	0	0	0	0	0	0
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Processors may be accredited for more than one dosimeter type. See the Scope of Accreditation for each processor in the last NOTE: section of the Directory for details.

ELECTROMAGNETICS

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NVLAP Test Method Code Number

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INSULATION

NVLAP Test Method Code Number

NVLAP Lab Code	C 0 1	C 0 2	C 0 3	D 0 1	D 0 2	D 0 3	D 0 4	D 0 5	D 0 6	D 0 7	D 0 8	D 0 9	D 1 1	D 1 2	D 1 3	D 1 4	D 1 5	D 1 6	D 1 7	D 1 8	D 1 9	D 2 0	D 2 1	D 2 2	D 2 3	D 2 4	D 2 6	D 2 7	D 2 8	D 2 9
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continued next page

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INSULATION (continued)

NVLAP Test Method Code Number

NVLAP Lab Code	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	S 0 5	S 0 6	S 0 7	S 0 8	S 0 9	S 1 0	S 1 1	S 1 2	S 1 3	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 0 3	V 0 4	V 0 5	V 0 6
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PAINTS AND RELATED COATINGS AND MATERIALS

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PAPER AND RELATED PRODUCTS

NVLAP Test Method Code Number

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SEALS AND SEALANTS

NVLAP Test Method Code Number

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INDEX E. 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

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
01/C02 01/C03	16 CFR-Part 1209.5 California Energy Comm. Corrosivenses - Minera	Corrosiveness; Cellulosic fiber (loose-fill) ission tests for insulating materials: 1 fiber blackets and loose-fill
01/001	ASTM C136	Sieve or screen analysis
01/D02	ASTM C167	Thickness and density: Blanket and batt
01/008	ASTM C302	Density: Preformed pipe insulation
01/D09	ASTM C303	Density: Preformed block insulation
01/D13	ASTM C519	Density: Loose-fill (fibrous)
01/D26	16 CFR-Part 1209.4	Settled density: Cellulosic fiber (loose-fill)
01/F01	TAPPI T461	Flame Resistance; Paper and paperboard
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	16 CFR-Part 1209.6	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	16 CFR-Part	Smoldering combustion: Cellulosic fiber (loose-fill)
01/S01	ASTM C165	Compressive properties; Thermal insulation (proc. A)
01/S08	ASTM C446	Breaking load/modulus of rupture; Preformed pipe insulation
01/S09	ASTM D781	Puncture test; Paperboard and fiberboard
01/510	ASTM D828	Tensile breaking strength; Paper and paperboard
01/512	California Energy Comm	ission tests for insulating materials:
		Bond strength - Spray applied cellulose
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
01/109	ASIM C655	Inermal resistance (Rec. Practice); Blanket (mineral fiber)
01/110	ASIM C68/	(nermal resistance (Hec. Fractice); Loose-Till (Tibrous)
01/404	HOLM EVO	Water vapor transmission: Hin Sneets (Droc. A)

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, 1988

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/S02	ASTM C203	Breaking load/flexural strength; Preformed block insulation
01/S07	ASTM C273	Shear test; Sandwich construction
01/S11	ASTM D1621	Compressivé properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06 01/V04	ASTM C518 ASTM E96	Thermal transmission properties; Heat flow meter Water vapor transmission; Thin sheets (proc. A)

NAHB RESEARCH FOUNDATION, INC. 627 Southlawn Lane, Rockville, MD 20850 Hugh Angleton Phone: 301-762-4200

Accreditation F	Renewal Da	ate: Jan	uary 1,	1988
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NVLAP Code	Designation	Short Title
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
01/T09	ASTM C653	Thermal resistance (Standard Guide) Blanket (mineral fiber)
01/T10	ASTM C687	Thermal resistance (Rec. Practice); Loose-fill (fibrous)

NVLAP LAB CODE 0105

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

Accreditation	Renewal Date: January	1, 1988
NVLAP Code	Designation	Short Title
01/F02 01/F07	ASTM E84 16 CFR-Part 1209.6	Surface burning characteristics; Building materials Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/T06 03/F01 03/F04	ASTM C518 ASTM E84 ASTM E648	Thermal transmission properties; Heat flow meter Surface Flammability (Carpets) Radiant Panel (Carpet)

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	\prime 1.	1988
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N	ALAP Code	Designation	Short Title
	01/C02	16 CFR-Part 1209.5	Corrosiveness; Cellulosic
	01/D27	ASTM D2126	Response to thermal and humid aging
	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/T01	ASTM C177	Thermal transmission properties; Low-temperature quarded hot plate
	01/V04	ASTM E96	Water vapor transmission: Thin sheets (proc. A)
	03/C01	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	Methenamine Pill Test (FF 1-70) Sec.1630.4
	03/F04	ASTM E648	Radiant Panel (Carpet)
	03/F05	ASTM E662	Optical Density of Smoke Generated by Solid Materials

UNITED STATES TESTING COMPANY, INC. TULSA DIVISION 1341 North 108th East Avenue, Tulsa, OK 74116 Carl Yoder Phone: 918-437-8333

Accreditation Renewal Date: January 1, 1988

WLAP Code	Designation	Short Title
01/002	16 CFR-Part 1209.5 (Formerly HH-I-515 Part	Corrosiveness; Cellulosic fiber (loose-fill)
01/D18	ASTM D1622	Apparent density: Rigid cellular plastics
01/D26	16 CFR-Part 1209.4	Settled density; Cellulosic fiber (loose-fill)
01/F08	(Formerly HH-I-515, Part 16 CFR-Part 1209.7 (Formerly HH-I-515, Part	t 4.8.1) Smoldering combustion; Cellulosic fiber (loose-fill) t 4.8.8 Amendment 1)
01/VO4	ASTM E96	Water vapor transmission; Thin sheets (proc. A)
01/V05	ASTM C739 (sec.11)	Fungus; Cellulosic fiber (loose-fill)
01/V06	(Formerly HH-I-515, Part ASTM C739 (sec. 15) (Formerly HH-I-515, Part	: 4.8.6) Starch; Cellulosic fiber (loose-fill) : 4.8.9)

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

Accreditation Renewal Date: January 1, 1988

WLAP Code	Designation	Short Title
03/B01 03/C01 03/C02 03/D01	UM44d (Table 5) AATCC 16E AATCC 8 ASTM D418	Attached Cushion Tests 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/E01 03/F03	DDD-C-95A AATCC 134/CRI 102 16 CFR Part 1630 (FF 1-70) Sec.1630.4	Shrinkage Electrostatic Propensity of Carpets Methenamine Pill Test
03/F04 03/F05 03/S01 03/S02 03/S03	ASTM E648 ASTM E662 ASTM D1335 ASTM D2646, sec. 7. ASTM D3936	Radiant Panel (Carpet) Optical Density of Smoke Generated by Solid Materials Tuft Bind of Floor Coverings Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0109

OWENS-CORNING FIBERGLAS CORPORATION TECHNICAL CENTER LABORATORY P.O. Box 415, Route 16, Granville, OH 43023 William M. Edmunds Phone: 614-587-7024

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
01/C01 01/C03	ASTM C739 (sec. 9) California Energy Commis	Corrosiveness; Cellulosic fiber (loose-fill) ssion tests for insulating materials:
01/001 01/D02	ASTM C136 ASTM C167	Corrosiveness - Mineral fiber blankets and loose-fill Sieve or screen analysis Thickness and density; Blanket and batt

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01/D03 01/D04 01/D05	ASTM C209 (sec. 6) ASTM C209 (sec. 13) ASTM C209 (sec. 13) by D1037 (sec. 100 106)	Thickness; Board (cellulosic fiber) Water absorption, 2 hour; Water absorption, 24 hour; Peord (cellulosic fiber)
01/D06	ASTM C209 (sec. 14) by D1037 (sec. 14)	Linear expansion; Board (cellulosic fiber)
01/007	ASTM C272	Density, Preformed block insulation
01/009	ASTM C2/2	Density; Fictormed pipe insulation
01/000		Density, Preformed block inculation
01/009	ASIM COUS	Density; Preformed Diock Insulation
	ASTM C226	Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/D13	ASTM C519	Density; Loose-fill (fibrous)
01/D15	ASTM D756	Weight and shape changes; Accelerated
		service (proc. A); Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated
		service (proc. B): Plastics
01/D17	ASTM D756	Weight and shape changes: Accelerated
		service (proc. E): Plastics
01/018	ASTM D1622	Apparent density: Rigid cellular plastics
01/019	ASTM D2126	Response to thermal and humid aging
01/01/	A316 02120	(proc B). Pigid cellular plastics
01/020	ASTM 02126	Perpage to thermal and humid aging
01/020	ASIM UZIZO	(proce D), Digid collulor plastico
01 /0.21	ACTH 02120	(proc. D); Rigio certular plastics
01/021	ASIM DZIZ6	Response to thermal and humid aging
01 (200	1071 00104	(proc. E); Rigio cellular plastics
01/022	ASTM D2126	Response to thermal and humid aging
		(proc. F); Rigid cellular plastics
01/023	ASTM D2842	Water absorption; Rigid cellular plastics
01/024	ASTM C739 (sec. 12)	Moisture absorption; 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/D29	California Energy Commi	ssion tests for insulating materials:
		Installed compressed thickness
01/F02	ASTM E84	Surface burning characteristics; Building materials
01/F05	ASTM E136	Behavior of Materials in a Vertical Tube Furnace
01/F07	16 CFR-Part 1209.6	Critical radiant flux: (formerly HH-I-515, Part 4.87)
		Radiant Panel (cellulosic fiber,
01/F08	16 CFR-Part 1209.7 (Formerly HH-I-515, Par	Smoldering combustion; Cellulosic fiber (loose-fill)
01/501	ASTM C165	Compressive properties: Thermal insulation (proc. A)
01/502	ASTM C203	Breaking load/flayural strength. Preformed block insulation
01/503	ASTM (209 (sec 9)	Transverse strength. Board (cellulosic fiber)
01/50/	ASTM C209 (Sec. 10)	Deflection at energified load: Roard (cellulosic fiber)
01/505	ASTM C209 (Sec. 10)	Tancile strength: Parallal to surface.
01/302	ASTM C205 (Sec. 11)	Poord (callulosic fiber)
01/506	ASTM C209 (cec 12)	Tencile strength: Perpendicular to surface
01/507	ASTM C207 (Sec. 12)	Char tact. Sandwich construction
01/50/	ASTM C444	Breaking lood modulus of numbures Preformed nine insulation
01/500	ASIM C440	Breaking Todd/modulus of Toplate, Fictorialed pipe instructor
01/509	ASTM D/OI	Topoile brocking strength, Bongr and paperboard
01/510	ASIM DOZO	Tensile breaking strength; Paper and paperboard
01/511	ASIM DI621	compressive properties; Rigid Cellular
01 (70)	ACTN 0177	plastics (proc. A-crossneau)
01/101	ASIM CI//	inermal transmission properties;
01/70/	1071 0074	Low-temperature guarded not plate
01/104	ASTM CZ26	Inermal conductance; Guarded not box
01/105	ASIM U222	Thermal conductivity; Pipe insulation
01/106	ASIM USIN	Thermal transmission properties; Meat flow meter
01/109	ASIM C652	Inermal resistance (Rec. Practice); Blanket (mineral fiber,
01/110	ASIM C687	Inermal resistance (Rec. Practice); Loose-Till (Tiorous)
01/03	ASIM DT487	Mildew (Tungus) resistance; Paper and paperboard
01/04	ASTM E96	water vapor transmission; Thin sheets (proc. A)
01/05	ASTM C739 (sec. 11)	Fungus; Cellulosic fiber (loose-fill)
	(Formerly HH-I-515, Par	t 4.8.6)
01/V06	ASTM C739 (sec. 15)	Starch; Cellulosic fiber (loose-fill)
	(Formerly HH-I-515, Par	t 4.8.9)

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

Accreditation	Renewal Date: Ja	anuary 1,	, 1988
NVLAP Code	Designation		Short Title
01/003	ASTM C209 (sec.	6)	Thickness; Board (cellulosic fiber)
01/D04 01/D05	ASTM C209 (sec. ASTM C209 (sec.	13) 13)	Water absorption, 2 hour; Water absorption, 24 hour;
01/D06	ASTM C209 (sec.	100-106, 14)	/ Board (cellulosic fiber) Linear expansion:
	by D1037 (sec.	107-110) Board (cellulosic fiber)
01/D07	ASTM C272		Water absorption; Core materials
01/020	ASTM D2126		Response to thermal and humid aging (proc. D): Rigid cellular plastics
01/D21	ASTM D2126		Response to thermal and humid aging
01/D28	ASTM D2126		Response to thermal and humid aging
01/F02	ASTM ERA		Surface burning characteristics. Building materials
01/502	ASTM C203		Breaking load/flexural strength. Preformed block insulation
01/503	ASTM C209 (sec.	9)	Transverse strength: Board (cellulosic fiber)
01/504	ASTM C209 (sec.	10)	Deflection at specified load: Board (cellulosic fiber)
01/505	ASTM C209 (sec.	11)	Tensile strength; Parallel to surface;
01/00/	1071 0000 (101	Board (cellulosic fiber)
01/506	ASIM C209 (sec.	12)	Tensile strength; Perpendicular to surface
01/511	ASIM D1621		plastics (proc. A-Crosshead)
01/T01	ASTM C177		Thermal transmission properties;
01/704	ACTH 0076		Low-temperature guarded hot plate
01/104	ASTM CZZE		Thermal conductance; Guardeu Not Dox
01/105			Thermal transmission properties. Not flow meter
01/106	ASTM EQC		Weter werer transmission properties; heat flow meter
01/ 004	ACTH 0407		Revert Vapor transmission; mill sheets (proc. A)
00/202	ASIM C425		Sound Ausorption and Sound Ausorption Coerfictents
00/205	ASIMESU		Airborne Sound Transmission Loss of Building Particions
UB/EZI	AMA-1-11		CEILING SOUND ITANSMISSION LEST DY IWO-KOOM MECHOO

NVLAP LAB CODE 0113

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

Accreditation	Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
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

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

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title

01/C02	16 CFR-Part	1209.5	Corrosiveness; Cellulosic
(Former	ly H H-I-515 p	part 4.8.5)	fiber (loose-fill)
01/D26	16 CFR-Part	1209.4	Settled density; Cellulosic fiber
(Former	ly HH-I-515,	part 4.8.1)	(loose-fill)
01/F 02	ASTM E84		Surface burning characteristics; Building materials
01/F07	16 CFR-Part	1209.6	Critical radiant flux;
(Former	ly HH-I-515,	part 4.8.7)	Radiant Panel (cellulosic fiber)
01/F08	16 CFR-Part	1209.7	Smoldering combustion;
(Former	ly HH-I-515,	part 4.8.8)	Cellulosic fiber (loose-fill)
03/F01	ASTM E84		Surface Flammability
03/F04	ASTM E648		Radiant Panel (Carpet)

NVLAP LAB CODE 0116

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

Accreditation Renewal Date: January 1, 1988			
NVLAP Code	Designation	Short Title	
01/C01	ASTM C739 (sec. 9)	Corrosiveness; Cellulosic fiber (loose-fill)	
01/002	16 CFR-Part 1209.5	Corrosiveness; Cellulosic fiber (loose-fill)	
01/001	ASTM C167	Sleve or screen analysis Thickness and density. Planket and batt	
01/002	ASTM (209 (sec 6)	Thickness and density; planket and batt	
01/004	ASTM C209 (sec. 13)	Water absorption. 2 hour:	
01/005	ASTM C209 (sec. 13)	Water absorption, 24 hour:	
by D10	37 (sec. 100-106)	Board (cellulosic fiber)	
01/D06	ASTM C209 (sec. 14)	Linear expansion:	
by D103	37 (sec. 107-110)	Board (cellulosic fiber)	
01/D08	ASTM C302	Density; Preformed pipe insulation	
01/D09	ASTM C303	Density; Preformed block insulation	
01/D13	ASTM C519	Density; Loose-fill (fibrous)	
01/014	ASTM C520	Density; Granular loose-fill	
01/018	ASTM D1622	Apparent density; Rigid cellular plastics	
01/024	ASIM U739 (Sec. 12)	Moisture absorption; Cellulosic fiber (100se-fill)	
(Former)	10 CrR-Part 1207.4	(loose_fill)	
01/F02	$\Delta STM FRA$	Surface burning characteristics: Building materials	
01/F07	16 CFR-Part 1209.6	Critical radiant flux:	
(Former ly	v HH-I-515. Part 4.8.7)	Radiant Panel (cellulosic fiber, loose-fill)	
01/F08	16 CFR-Part 1209.7	Smoldering combustion;	
(Former)	ly HH-I-515, Part 4.8.8)	Cellulosic fiber (loose-fill)	
01/502	ASTM C203	Breaking load/flexural strength; Preformed block insulation	
01/S03	ASTM C209 (sec. 9)	Transverse strength; Board (cellulosic fiber)	
01/S04	ASTM C209 (sec. 10)	Deflection at specified load; Board (cellulosic fiber)	
01/S05	ASTM C209 (sec. 11)	Tensile strength; Parallel to surface;	
01/00/	AG704 00000 (1000 100)	Board (cellulosic fiber)	
01/505	ASIM CZUY (SEC. 12)	Prosting load (and ulug of ministure, Droformed ping inculation	
01/500		Compressive properties. Pigid cellular	
01/ 311	A510 D1021	plastics (pmc. 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/V03	TAPPI T487	Mildew (fungus) resistance; Paper and paperboard	
01/V05	ASTM C739 (sec. 11)	Fungus; Cellulosic fiber	
(former	ly HH-I-515, Part 4.8.6)	(loose-fill)	

01/V06 ASTM C739 (sec. 15) Starch; Cellulosic fiber (formerly HH-I-515, Part 4.8.9) (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	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)

		(MPIII, 1704
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 (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	, 34	34
04/E03	Input Test	35	35
04/E.04	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/E 09	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

NVLAP LAB CODE 0117

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

Accreditation Renewal Date: January 1, 1988

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NVLAP Code	Designation	Short Title
01/D13 01/D26 01/F02	ASTM C519 16 CFR-Part 1209.4 ASTM E84	Density; Loose-fill (fibrous) Settled density; Cellulosic fiber (loose-fill) Surface burning characteristics; Building materials
01/F07	16 CFR-Part 1209.6	Critical radiant flux; Radiant Panel (cellulosic fiber, loose-fill)
01/F08	16 CFR-Part 1209.7	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	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
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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 (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 04/M05 04/M06	Test Installation Toxic Gas Drop Test	12 12 12				
	ELECTRICAL TEST GROUP (04	4/E00)				
IVLAP 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	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	. 6.4	6.2			
04/E10	Temperature Test, Electrical Components	6.4	6.2			
04/E11 04/E12 04/F13	Leakage Current Dielectric Withstand Power Cord Strain Belief	6.8 6.5	6.3 6.3			

Accreditation Renewal Date: January 1, 1988

NVLAP LAB CODE 0120

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
01/C02	16 CFR-Part 1209.5 (formerly HH-1-515 p	Corrosiveness; Cellulosic fiber (loose-fill)
01/D26	16 CFR-Part 1209.4 (formerly HH-1-515.4	Settled density; Cellulosic fiber (loose-fill) Part 4.8.1)
01/F07	16 CFR-Part 1209.6 (formerly HH-I-515.6	Critical radiant flux; Radiant panel (cellulosic fiber) Part 4.8.7)
01/F08	16 CFR-Part 1209.7 (formerly HH-1-515, 6	Smoldering combustion; Cellulosic fiber (loose-fill) Part 4.8.8)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
03/B01	UM44d (Tabe 5)	Attached Cushion Tests
03/C01	AATCC 16E	Colorfastness to Light (Xenon Arc)
03/C02	AATCC 8	Colorfastness to Crocking
03/001	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/F01	ASTM E84	Surface Flammability
03/F03	16 CFR Part 1630	Methenamine Pill Test (FF-1-70) Sec.1630.4
03/F04	ASTM E648	Radiant Panel (Carpet)
03/F05	ASTM E662	Optical Density of Smoke Generated by Solid Materials
03/501	ASTM 01335	Tuft Bind of Floor Coverings

03/S02	ASTM D2646, sec. 7	Testing Backing Fabrics, Breaking Load
03/\$03	ASTM D3936	Delamination Strength of Secondary
		Backing of Pile Floor Coverings

NVLAP LAB CODE 0121

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, 1988
NVLAP Code	Designation	Short Title
01/T01	ASTM C177	Thermal transmission properties; Low-temperature guarded hot plate
01/T04 01/T06	ASTM C236 ASTM C518	Thermal conductance; Guarded hot box Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0122

TECHNICAL MICRONICS CONTROL, INC. SCIENTIFIC SERVICES, INC. P.O. Box 1330, 210 Wynn Drive, Huntsville, AL 35807 Ms. Bharathi Ujjani Phone: 205-837-4430

Accreditation	Renewal Date: April 1,	1987
NVLAP Code	Designation	Short Title
01/C02	16 CFR-Part 1209.5 (formerly HH-I-515 part	Corrosiveness; Cellulosic fiber (loose-fill) 4.8.5)
01/D26	16 CFR-Part 1209.4 (formerly HH-I-515, par	Settled density; Cellulosic fiber (loose-fill) t 4.8.1)
01/F07	16 CFR-Part 1209.6 (formerly HH-I-515, par	Critical radiant flux; Radiant panel Cellulosic fiber) t 4.8.7)
01/F08	16 CFR-Part 1209.7 (formerly HH-I-515, par	Smoldering combustion; Cellulosic fiber (loose-fill) t 4.8.8)
01/T06 01/V05	ASTM C518 ASTM C739 (sec.11) (formerly HH-I-515, par	Thermal transmission properties; Heat flow meter Fungus; Cellulosic fiber (loose-fill) t 4.8.6)

Accreditation Renewal Date: January 1, 1988

NVLAP LAB CODE 0123

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

NVLAP Code	Designation	Short Title
01/D02 01/D03	ASTM C167 ASTM C209 (para, 6 in 72	Thickness and density; Blanket and batt Thickness; Board (cellulosic fiber) version)
01/D04	ASTM C209	Water absorption, 2 hour:
01/005	ASTM C209 (para. 13 in 7	Water absorption, 24 hour; Board (cellulosic fiber) 2 version)
01/D06	ASTM C209 (para, 14 ip 7	Linear expansion; Board (cellulosic fiber)
	by 01037 (para	. 107-110 in 72 version)
01/D08	ASTM C302	Density: Preformed pipe insulation
01/009	ASTM C303	Density: Preformed block insulation
01/D11	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation

01/D13	ASTM C519	Density: Loose-fill (fibrous)
01/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 Vertical Tube Furnace
01/501	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, 005	(para, 9 in 72 version)	Board (cellulosic fiber)
01/504	ASTM C209	Deflection at specified load:
01/001	(para. 10 in 72 version)	Board (cellulosic fiber)
01/S05	ASTM C209	Tensile strength: Parallel to surface:
	(para, 11 in 72 version)	Board (cellulosic fiber)
01/506	ASTM C209	Tensile strength: Percendicular to
	(para, 12 in 72 version)	surface
01/508	ASTM C446	Breaking load/modulus of rupture:
01,000		Preformed pipe insulation
01/S09	ASTM D781	Puncture test: Paperboard and fiberboard
01/510	ASTM D828	Tensile breaking strength: Paper and paperboard
01/T01	ASTM C177	Thermal transmission properties:
01, 101		low-temperature guarded bot plate
01/T04	ASTM C236	Thermal conductance: Guarded bot box
01/105	ASTM C 335	Thermal conductivity: Pipe insulation
01/T06	ASTM C518	Thermal transmission properties. Heat flow meter
11/109	ASTM C653	Thermal resistance (Rec. Practice): Blanket (mineral fiber)
	ASTM C687	Thermal resistance (Rec. Practice): Loose-fill (fibrous)
01/104	ASTM F96	Water vanor transmission. Thin sheets (nrnc, A)
08/P02	ASTM C384	Impedance and Absorption of Accustical Materials
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P04	ASTM C522	Airflow Resistance of Acoustical Materials
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions

NVLAP LAB CODE 0124

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, 1988
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

Accreditation	Renewal Date:	January 1, 1988
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

OWENS-CORNING FIBERGLAS CORPORATION PLANT LABORATORY 300 Sunshine Road, Kansas City, KS 66115 G.D. Growcock Phone: 913-281-2811

Accreditation	Renewal Date:	January 1, 1988
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 0128

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

Accreditation	Renewal Date:	January 1, 1988
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

Accreditation	Renewal Date:	January 1, 1988	
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 0130

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, 1988

NVLAP Code	Designation	Short Title
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/D09	ASTM C303	Density; Preformed block insulation
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter
THE H. C. NUTTING COMPANY 4120 Airport Road, P.O. Box C, Cincinnati, OH R. Jack Scott Phone: 513-321-5816

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173*	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

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, 1988
NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method

NVLAP LAB CODE 0135

AGUIRRE ENGINEERS, INC. 13276 East Fremont Place, Englewood, CO 80112 Vukoslav E. Aguirre Phone: 303-799-8378

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

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, 1988

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
03/B01 03/C01 03/C02	UM44d (Table 5) AATCC 16E AATCC 8	Attached Cushion Tests 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)
	*	luft Height ~ (Section 15)
03/D02	DDD-C-95A	Shrinkage
03/F03	16 CFR Part 1630 (FF 1-70) Sec.1630.4	Surface Flammability
	Sec. 1630.4	Test Procedure
03/F04	ASTM E648	Radiant Panel (Carpet)
03/501	ASTM D1335	Tuft Bind of Floor Coverings
027 002	Federal Test Method	
	Standard 191-5100	Textile Test Method _ Breaking Strength
	101 5050	Textile Test Method - Delamination
07/502		Testing Decking Schnice Decamination
07/502	ASTM 02040, Sec. 7.	rescing backing radrics, Breaking Luad
03/503	ASIM U 3936	Detamination Strength of Secondary
		Hacking of Pile Floor Coverings

NVLAP LAB CODE 0141

GENSTAR STONE PRODUCTS COMPANY WHITE MARSH TECHNICAL CENTER 10300 Pulaski Highway, White Marsh, MD 21162 Roy K. Heaps Phone: 301-628-4064

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete
	ASTM C143	Slump of Portland Cement Concrete
	ASTM C138	Unit Weight, Yield, and Air Content (Gravimetric)
	ASTM C231	Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens
02/A02	ASTM C617	Capping Cylindrical Specimens

NVLAP LAB CODE 0142

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

NVLAP Code Designation Short Title	
01/D08ASTM C302Density; Preformed pipe insulation01/F05ASTM El36Behavior of Materials in a Vertical Tube01/T01ASTM C177Thermal transmission properties; Low-temperature guarded hot plate	Furnace
01/T04 ASTM C236 Thermal conductance; Guarded hot box	

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, 1987

NVLAP Code	Designation	Short Title
02/G01 02/A01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173 ASTM C39	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0149

E & B CARPET MILLS P.O. Box 2047, Dalton, GA 30720 Robert H. Davis Phone: 404-272-7783

Accreditation	Renewal Date: January	1, 1988
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/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Pile Floor Coverings
03/S02 03/S03	ASTM D2646, sec. 7. ASTM D3936	Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0151

HARDWOOD PLYWOOD MANUFACTURERS ASSOCIATION 1825 Michael Faraday Drive, Reston, VA 22090 Gary Gramp Phone: 703-435-2900

Accreditation Renewal Date: January 1, 1988

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

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THE ARUNDEL CORPORATION GREENSPRING LABORATORY 6806 Greenspring Avenue, Baltimore, MD 21209 M. Joann Petillo Phone: 301-484-6022

Accreditation	n Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

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, 1988

NVLAP Code	Designation	Short Title
03/B01 03/C01 03/C02 03/D01	UM 44d (Table 5) AATCC 16E AATCC 8 ASTM D418	Attached Cushion Tests 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/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/501	ASTM D1335	Tuft Bind of Floor Coverinas
03/503	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

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

Accreditation	Renewal Date:	January 1, 1988
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 Woven and Tufted Pile Floor Covering 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/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/501	ASTM D1335	Tuft Bind of Pile Floor Coverings
03/502	ASTM D2646, sec. 7.	Testing Backing Fabrics, Breaking Load
03/503	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

ENGINEERING TESTING LABORATORY CITY OF AKRON 1420 Triplett Blvd, Bldg #2, Akron, OH 44306 Pawan K. Khaitan Phone: 216-375-2740

Accreditation Renewal Date: July 1, 1987

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LABCODE 0163

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, 1988

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/F03	16 CFR Part 1630	Surface Flammability
	(FF 1-70) Sec. 1630.4	Test Procedure
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
03/502	ASTM D2646, sec. 7.	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

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, 1988

NVLAP Code	Designation	Short Title
03/B01 03/C01 03/C02 03/D01	UM44d (Table 5) AATCC 16E AATCC 8 ASTM D418	Attached Cushion Tests 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/E01	AATCC 134/CRI 102	Electrostatic Propensity of Carpets
03/F03	16 CFR Part 1630	Surface Flammability
03/50/	ASTM E 6/9	Redient Bonel (Carnet)
03/505	ASTM E440	Ontion: Density of Smake Concreted by Solid Materials
03/503	ASTM E002	Tush Diad of Floor Coupriggs
09/501	Federal Test Method	latt Bind of Floor Coverings
	Standard 191-5100	Textile Test Method - Breaking Strength
07/502		Testing Desking Febrica, Breaking Load
03/502	ASTM D2040, Sec. 7.	Peleriation Strength of Secondary
00/309	ASIM 02720	Backing of Dile Fleen Coveringe
		Backing of Pile Floor Loverings

NVLAP LAB CODE 0175

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, 1987	
NVLAP Code	Designation	Short Title	
01/D21	ASTM D2126	Response to thermal and humid aging	
01/D28	ASTM D2126	Response to thermal and humid aging	
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 Michael Dallaire Phone: 617-876-1400

Accreditation	n Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Concrete Specimens

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, 1987

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

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]	l, 1988
NVLAP Code	Designation	Short Title
03/801 03/C01 03/C02 03/D01	UM 44d (Table 5) AATCC 16E AATCC 8 ASTM D418	Attached Cushion Tests 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/E01 03/F03	DDD-C-95A AATCC 134/CRI 102 16 CFR Part 1630 (FF-1-70) Sec.1630.4	Shrinkage Electrostatic Propensity of Carpets Methenamine Pill Test Test Procedure
03/F04 03/F05	ASTM E648 ASTM E662	Radiant Panel (Carpet) Optical Density of Smoke Generated by Solid Materials
03/S01 03/S02 03/S03	ASTM D1335 ASTM D2646, sec. 7. ASTM D3936	Tuft Bind of Floor Coverings Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0183

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

Accreditation Renewal Date: April 1, 1987

WLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

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

Accreditation	n Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
01/T04 02/G01	ASTM C236 ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Thermal conductance; Guarded hot box Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173*	Air Content Volumetric Method
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

NVLAP LAB CODE 0190

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

Accreditation	Renewal Date: January	1, 1988	
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	X
03/S02 03/S03	ASTM D2646, sec. 7 ASTM D3936	Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings	

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NVLAP LAB CODE 0191

STS CONSULTANTS, LTD. 111 Pfingsten Road, Northbrook, IL 60062 Ronald E. Hutchens Phone: 312-272-6520

Accreditation	Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

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

Accreditation	Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
CONCRETE		
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method
	ASTM C173	Air Content Volumetric Method
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens
AGGREGATES		
02/A03	ASTM C29	Unit Weight and Voids in Aggregates
02/A04	ASTM C340	Organic Impurities in Fine Aggregate
02/A06	ASTM C88	Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate
02/A07	ASTM C117	Materials Finer than 75- m (No. 200) Sieve in Mineral Aggregates by Washing
02/A08	ASTM C123	Lightweight Pieces in Aggregate
02/A09	ASTM C127	Specific Gravity and Absorption of Coarse Aggregate
02/A10	ASTM C128	Specific Gravity and Asbortion of Fine Aggregate
02/A11	ASTM C131	Resistance to Degradation of Small-Size Coarse
		Aggregates in the Los Angeles Machine
02/A12	ASTM C136	Sieve Analysis of Fine and Coarse Aggregates
02/A13	ASTM C142	Clay Lumps and Friable Particles in Aggregates

NVLAP LAB CODE 0193

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

Accreditation Renewal Date: January 1, 1988

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/F03	16 CFR Part 1630 (FF-1-70) Sec.1630.4	Methenamine Pill Test
03/S01	ASTM D1335	Tuft Bind of Floor Coverings
03/\$02	ASTM D2646, Sec. 7	Testing Backing Fabrics, Breaking Load
03/S03	ASTM D3936	Delamination Strength of Secondary Backing of Pile Floor Coverings

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

Accreditation	Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method
02/A01 02/A02	ASTM C173 ASTM C39 • ASTM C617	Air Content Volumetric Method Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

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

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0197

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

Accreditation Renewal Date: January 1, 1988

WLAP 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/F03	16 CFR Part 1630	Surface Flammability
03/S01 03/S02 03/S03	(FF 1-70) Sec. 1630.4 ASTM D1335 ASTM D2646, sec. 7 ASTM D3936	Test Procedure Tuft Bind of Floor Coverings Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

PTL-INSPECTORATE INC. 850 Poplar Street, Pittsburgh, PA 15220 William H. Levelius Phone: 412-922-4000

Accreditation Renewal Date: October 1, 1987

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39 .	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0203

CALMAT CO. CONCRETE AND AGGREGATES LABORATORY 16009 Foothill Blvd., Irwindale, CA 91706 James Neal Van Nest Phone: 818-334-0304

Accreditatio	n Renewal Date: Ja	nuary 1, 1988	
NVLAP Code	Designation	Short Title	
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method	
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Specimens Capping Cylindrical Specimens	

NVLAP LAB CODE 0206

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

Accreditatio	n Renewal Date: Janu	Jary 1, 1988
NVLAP Code	Designation	Short Title
02/601	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens
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GULF COAST TESTING LABORATORY, INC. 1205 North Tancahua Street, Corpus Christi, TX 78401 Doyne Reynolds Phone: 512-882-5411

Accreditation	Renewal Date: January 1	, 1988	- 10.0 Asternol has	at a human
NVLAP Code	Designation	Short Title		20.011
CONCRETE	1377 1		_ A 11/E	16 11-
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Sampling Freshly-Mixed Concrete Slump of Portland Cement Concre Unit Weight, Yield, and Air Con Air Content of Freshly Mixed Co Air Content Volumetric Method	Specimens in the te tent (Gravimetric ncrete by the Pre	e field c) essure Method
02/A01 02/A02	ASTM C 39 ASTM C 617	Compressive Strength of Cylindr Capping Cylindrical Specimens	ical Concrete Spe	ecimens
AGGREGATES				
02/A03 02/A04 02/A05	ASTM C29 ASTM C40 ASTM C87	Unit Weight and Voids in Aggreg Organic Impurities in Fine Aggr Effect of Organic Impurities in Aggregates on Strength of Mor	ates egate Fine	
02/A06	ASTM C88	Soundess of Aggregates by Use of Sulfate or Mannesium Sulfate	f Sodium	
02/A07	ASTM C117	Materials Finer than 75- m (No	. 200) Sieve	Automatica)
02/A08 02/A09 02/A10 02/A11	ASTM C123 ASTM C127 ASTM C128 ASTM C131	Lightweight Pieces in Aggregate Specific Gravity and Absorption Specific Gravity and Absorption Resistance to Degradation of Sm Coarse Accredates in the Los	of Coarse Aggreg of Fine Aggregat all-Size Angeles Machine	jate te
02/A12 02/A13 02/A16	ASTM C136 ASTM C142 ASTM D2419	Sieve Analysis of Fine and Coar Clay Lumps and Friable Particle Sand Equivalent Value of Soils	se Aggregates s in Aggregates and Fine Aggregat	te

NVLAP LAB CODE 0210

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

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
01/D15	ASTM D756	Weight and shape changes; Accelerated service (proc. A): Plastics
01/D16	ASTM D756	Weight and shape changes; Accelerated service (proc. B): Plastics
01/D17	ASTM D756	Weight and shape changes; Accelerated
01/D18 01/D20	ASTM D1622 ASTM D2126	Apparent density; Rigid cellular plastics Response to thermal and humid aging
01/D22	ASTM D2126	(proc. D); Rigid cellular plastics Response to thermal and humid aging (proc. E): Rigid cellular plastics
01/D23 01/D27	ASTM D2842 ASTM D2126	Water absorption; Rigid cellular plastics
01/D28	ASTM D2126	Response to thermal and humid aging
01/511	ASTM D1621	Compressive properties; Rigid cellular plastics (proc. A-Crosshead)
01/T06 01/V04	ASTM C518 ASTM E96	Thermal transmission properties; Heat flow meter Water vapor transmission; Thin sheets (proc. A)

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

Accreditation Renewal Date: July 1, 1987

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39.	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0216

USG CORPORATION 700 North Highway 45, Libertyville, IL 60048 William F. Porter Phone: 312-362-9797

Accreditation Renewal Date: July 1, 1987

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

Accreditation Renewal Date: October 1, 1987

NVLAP Code	Designation	Short Title
01/D18 01/D21	ASTM D1622 ASTM D2126	Apparent density; Rigid cellular plastics Response to thermal and humid aging (proc. F): Rigid cellular plastics
01/027	ASTM D2126	Response to thermal and humid aging (proc. C); Rigid cellular plastics
01/\$11	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, 1987

NVLAP Code	Designation	Short Title
03/F03	16 CFR Part 1630	Surface Flammability
03/F04 03/S01	(FF 1-70) Sec. 1630.4 ASTM E648 ASTM D1335	Radiant Panel (Carpet) Tuft Bind of Floor Coverings
03/S02 03/S03	ASTM D2646, sec. 7 ASTM D3936	Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

SALEM CARPET LABORATORY P.O. Box 10, Chatsworth, GA 30720 Michael A. Corbin Phone: 404-935-2241

Accreditation	Renewal Date: July 1,	1988
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/F03	• DDD-C-95A 16 CFR Part 1630 (FF=1=70) Sec.1630.4	Surface Flammability
03/F04 03/S01 03/S02 03/S03	ASTM E648 ASTM D1335 ASTM D2646, sec. 7 ASTM D3936	Radiant Panel (Carpet) Tuft Bind of Floor Coverings Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0223

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

Accreditation Renewal Date: January 1, 1988 Section of U 737 Section of U 1482

NVLAP Code	Short Title	5th Edition (March 1, 1982)	2nd Edition (January 24, 1983)
	PHYSICAL/FIRE TEST GROUP	(04/F00)	
04/F01	Test Installation	8	8
04/F02	Temperature Measurement	9	9
04/F04	Radiant Fire Test	11	11
04/105	Coal Fire lest	10	14
04/106	Brand Fire lest	12	12
04/10/	Strongth Tasts	12	15
04/100	Stability Tests	15	16
04/510	Clazing Test	14	15
04/110	diazing (cst	14	12
	MOBILE HOME TEST GROUP (C	14/MOO)	
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
04/M03	Drop Test	17	17
	ELECTRICAL TEST GROUP (04	/E00)	
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements,	34	34
	Electrical Components		
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

Accreditation Renewal Date: January 1, 1988

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	Brand Fire Test Flash Fire Test Strepath Test	12 13	14 12 13
04/F09 04/F10	Stability Test Glazing Test	15 16 14	16 15
	MOBILE HOME TEST GROUP (C	04/MOO)	
04/M01 04/M02 04/M03	Test Installation Toxic Gas Drop Test	17 17 17	17 17 17
	ELECTRICAL TEST GROUP (04	4/E00)	
04/E01 04/E02	Test Voltages Temperature Measurements, Flectrical 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	Power Cord Strain Relief	40	40

NVLAP LAB CODE 0226

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

Accreditation	Renewal Date:	July 1	ι,	1987				
NVLAP Code	Designation			Short Ti	tle			
01/T04	ASTM C236			Thermal	conductance;	Guarded	hot	box

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, 1987

NVLAP Code	Designation	Short Title
08/P03 08/P05 08/P06 08/P07	ASTM C423 ASTM C523 ASTM E90 ASTM E492	Sound Absorption and Sound Absorption Coefficients Light Reflectance of Acoustical Materials Airborne Sound Transmission Loss of Building Partitions Impact Sound Transmission Through Floor-Ceiling Assemblies
08/P10	ANSI 51.31	Sound Power Levels, Broad-Band Noise Sources in Reverberation Rooms (100-10.000 Hz)
08/P17	ISO 3741	Sound Power Levels, Broad-Band Sources in Reverberation Rooms (100-10,000 Hz)
08/E01	ANSI B71.1 (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 William R. Reed Phone: 717-396-5523

Accreditation Renewal Date: January 1, 1988

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

NVLAP LAB CODE 0229

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

Accreditation Renewal Date: April 1, 1987

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

VIRGINIA CONCRETE LABORATORY 6555 Industrial Drive, P.O. Box 666, Springfield, VA 22150 Donald Blevins Phone: 703-354-7100

Accreditation Renewal Date: April 1, 1987

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39.	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0232

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

Accreditation Renewal Date: January 1, 1988

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

NVLAP LAB CODE 0233

STS CONSULTANTS, LTD. FAIRFAX VA OFFICE 2929–C Eskridge Road, Fairfax, VA 22031 John M. Grusha Phone: 703–698–5300

Accreditation Renewal Date: October 1, 1987

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/401	ASTM C39	Compressive Strength of Cylindrical Specimens

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, 1987

NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

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, 1987
NVLAP Code	Designation	Short Title
08/P03 08/P06	ASTM C423 ASTM E90	Sound Absorption and Sound Absorption Coefficients Airborne Sound Transmission Loss of Building Partitions

NVLAP LAB CODE 0240

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, 1988

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 o	of CSA Standard B 366 (ULC s627-M1984) (April, 1984)	5.2-M1984
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 04/F19 04/F20	Strength Tests Stability Test Glazing Test	7.12 7.10 7.11	
	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 04/M02 04/M03	Test Installation Toxic Gas Drop Test	17 17 17	17 17 17
	Section o	of CSA Standard B 366 (ULC s627-M1984) (April, 1984)	5.2-M1984
04/m04 04/m05 04/m06	Test Installation Toxic Gas Drop Test	12 12 12	
	ELECTRICAL TEST GROUP (C	4/E00)	
NVLAP Code	Short Title	Section of UL 737 5th Edition (November 9, 1982)	Section of UL 1482 2nd Edition (January 24, 1983)
1)4/F(1)	Test Voltages	33	33
04/E02	Temperature Measurements	, 34	34
04/E03	Input Test	35	35
04/E04	Temperature Test, Electrical Components	36	36
04/E05	Leakage Current	38	38
04/E06 04/E07	Dielectric Withstand	37	37 39
04/20/	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	5, 6.4	6.2
04/E10	Temperature Test, Flectrical Components	6.4	6.2
04/E11	Leakage Current	6.8	6.3
04/E12	Dielectric Withstand	6.5	6.3
U4/E13	Power Cord Strain Relief	0.7	6.4

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

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Accreditation	n Renewal Date:	January 1, 1988
NVLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231 ASTM C173	Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method
02/A01 02/A02	ASTM C39 ASTM C617	Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

CUSTOM COATING, INC. 204 West Industrial Blvd., Dalton, GA 30720 David C. Robinson Phone: 404-277-3778

Accreditation Renewal Date: April 1, 1987

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

NVLAP LAB CODE 0244

NORTHWEST TESTING LABORATORIES, INC. 5405 N. Lagoon Avenue, P.O. Box 17126, Portland, OR 97217-0126 Harry L. Lippy Phone: 503-289-1778

Accreditation Renewal Date: January 1, 1988

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/M00)	
04/M01 04/M02 04/M03	Test Installation Toxic Gas Drop Test	17 17 17	17 17 17
	ELECTRICAL TEST GROUP (O	4/E00)	
04/E01 04/E02	Test Voltages Temperature Measurements Electrical Components	, 33 34	33 34
04/E03 04/E04	Input Test Temperature Test, Flectrical 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	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, 1988

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
	-		

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

04/F11	Test Installation	(April, 1904) 7.2	
04/F12	Temperature Measurement	7.3	
04/F14 04/F16	Radiant Fire Test	7.5	
04/F17	Flash Fire Test	7.7	
04/F18	Strength Tests	7.12	
04/F19	Stability Test	7.10	
04/F20	Glazing lest	/.11	
	MOBILE HOME TEST GROUP		
		Section of UL 737	Section of UL 1482
WA AD Code	Chart Title	5th Edition	2nd Edition
NVLAP COUP	SHOTE TILLE	(NUVERIDEL 9, 1962)	(January 24, 1903)
04/M01	Test Installation	17	17
04/M02	Toxic Gas	17	17
U4/MU3	Drop Test	17	17
	Section of	of CSA Standard B 366	5.2-M1984
		(ULC s627-M1984)	
		<u>(April, 1984)</u>	
04/M04	Test Installation	12	
04/M05	Toxic Gas	12	
04/M06	Drop Test	12	
	FLECTRICAL TEST GROUP		
		Section of UL 737	Section of UL 1482
		5th Edition	2nd Edition
NVLAP Code	Short Title	(November 9, 1982)	(January 24, 1983)
04/E01	Test Voltages	33	33
04/E02	Temperature Measurements	5, 34	34
04/507	Electrical Components	75	75
04/E03	Temperature Test	36	30 36
04/204	Electrical Components	20	50
04/E05	Leakage Current	38	38
04/E06	Dielectric Withstand	37	37
04/EU/	LUCKED ROLOF (Stalled Motor) Temperature	59	57
04/E08	Power Cord Strain Relie	f 40	40

		Section of CSA C 22.2 No. 3 	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	Dielectric Withstand	6.3	6.5
04/E13	Power Cord Strain Relief	6.4	6.9

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, 1987

NVLAP Code	Designation	Short Title
03/C02 03/F03	AATCC 8 16 CFR Part 1630 (FF 1-70) Sec. 1630.4	Colorfastness to Crocking Surface Flammability Test Procedure
03/S01 03/S02 03/S03	ASTM D1335 ASTM D2646, sec. 7 ASTM D3936	Tuft Bind of Floor Coverings Testing Backing Fabrics, Breaking Load Delamination Strength of Secondary Backing of Pile Floor Coverings

NVLAP LAB CODE 0248

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

Accreditation Renewal Date: April 1, 1987

NVLAP Code	Designation	Short Title
01/D02	ASTM C167	Thickness and density; Blanket and batt
01/008	ASTM C302	Density: Preformed block insulation
01/011	ASTM C356	Linear shrinkage; Soaking heat; Preformed high temperature insulation
01/D12	ASTM C411	Hot-surface performance; High temperature insulation
01/013	ASTM C519	Density: Loose-fill (fibrous)
01/S 0 1	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
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)

WARNOCK HERSEY INTERNATIONAL, INC. 8612 Fairway Place, Middleton, WI 53562 F. D. Curkeet Phone: 608-836-4400

Accreditation Renewal Date: January 1, 1988

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
0.7.10	Grant	14	17

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

U4/FII lest installation /	.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

Veinber 7, 17027	January 24, 1985)
17 17 17	17 17 17
	17 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	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,	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	6.5
04/E13	Power Cord Strain Relief	6.4	6.9

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

Accreditation Renewal Date: April 1, 1987

WLAP Code	Designation	Short Title
01/D09	ASTM C303	Density; Preformed block insulation
01/D14	ASTM C520	Density; Granular loose-fill
01/T04	ASTM C236	Thermal conductance; Guarded hot box
01/T06	ASTM C518	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, 1987

NVLAP Code	Designation	Short Title
01/C02	16 CFR-Part 1209.5 (formerly HH-I-515 part	Corrosiveness; Cellulosic fiber (loose-fill) 4.8.5)
01/D26	16 CFR-Part 1209.4 (formerly HH-I-515, part	Settled density; Cellulosic fiber (loose-fill) : 4.8.1)
01/F07	16 CFR-Part 1209.6 (formerly HH-I-515, part	Critical radiant flux; Radiant panel (cellulosic fill) t 4.8.7)
01/F08	16 CFR-Part 1209.7 (formerly HH-I-515, part	Smoldering combustion; Cellulosic fiber (loose-fill)
01/T06	ASTM C518	Thermal transmission properties; Heat flow meter

NVLAP LAB CODE 0252

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

Accreditation	Renewal Date:	October 1, 1987
NVLAP Code	Designation	Short Title
09/A01 09/A02 09/A03 09/A04 09/A05 09/A07	ASTM D56 ASTM D93 ASTM D153 ASTM D185 ASTM D281 ASTM D523	Flash Point by Tag Closed Tester Flash Point by Pensky-Martens Closed Tester, Method A & B Specific Gravity of Pigments Coarse Particles in Pigments, Pastes and Paints Oil Absorption of Pigments by Spatula Rub-Out Specular Gloss

09/A08	ASTM D562	Consistency of Paints; 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
09/A11	ASTM D1200	Viscosity of Paints, Varnishes, and Lacquers by
09/412	ASTM D1210	Fineness of Dispersion of Pigment-Vehicle Systems
09/413	ASTM D1212	Wet Film Thickness of Organic Costings Method A
09/01/	ASTM D1206	Rec Film michness of organic coalings, Method A
00/015		Clock Deich of Liquide by Tay Oran Oran tay
09/A15	ASIM DISIO	Flash-Point of Liquids by Tag Upen-Cup Apparatus
09/416	ASIM DI400	Applied to a Nonferrous Metal Base
09/A17	ASTM D1475	Density of Paint, Varnish, Lacquer, and Related Products
09/A18	ASTM D1544	Color of Transparent Liquids (Gardner Color Scale)
09/A19	ASTM D1729	Visual Evaluation of Color Differences of Onaque Materials
09/A20	ASTM D2244	Instrumental Evaluation of Color Difference of
00/001	ACTA 07070	Upaque Materials
09/A21	ASTM USZAS	Flash Point of Liquids: Setarlash Closed Tester Method A & B
09/AZZ	ASIM U2262	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	ASTM E97	45- deg, O-deg Directional Reflectance Factor of
09/A28	ASTM E313	Indexes of Whiteness and Yellowness of Near-White
		Opaque Materials
09/B01	ASTM D279	Bleeding of Pigments, Method A
09/802	ASTM D332	Tinting Strength of White Pigments, Method A
09/B03	ASTM D344	Relative Dry Hiding Power of Paints
09/804	ASTM D610	Rusting on Painted Steel Surfaces
09/B05	ASTM D659	Chalking of Exterior Paints
09/B05	ASTM D660	Checking of Exterior Paints
09/800		Crecking of Exterior Paints
09/80/	ASTM DOOL	Cracking of Exterior Paints
09/808	ASIM D662	Erosion of Exterior Paints
09/809	ASTM D711	NO-Pick-Up Time of Traffic Paint
09/810	ASTM D714	Blistering of Paints
09/B11 09/B12	ASTM D772 ASTM D821	Flaking (Scaling) of Exterior Paints Abrasion Fresion or a Combination of Both in Read
07,012	North DOZZ	Service Tests of Traffic Paints
09/B13	ASTM D868	Bleeding of Traffic Paint
09/B14	ASTM D869	Settling of Traffic Paint
09/815	ASTM D870	Water Immersion Test of Organic Coatings on Steel
09/B12	ASTM DOTO	Chioping of Traffic Paint
09/010	ASTM D919	Chipping Of Hallic Faille
09/81/	ASIM D968	Falling Abrasive Tester, Method A & B
09/B18	ASTM D969	Bleeding of Traffic Paint
09/B19	ASTM D1308	Effect of Household Chemicals on Clear and
09/820	ASTM DI 309	Settling Properties of Traffic Paint During
00/023		Drying Cupies on Film Connection of Orangio
09/820	ASIM 01040	Figure in the standard of the
09/824	ASIM DI131	Elongation of Atlached organic coatings with
		Cylinorical Manurel Apparatus
09/825	ASTM D2197	Aunesion of Urganic Coatings, Method A
09/B26	ASTM D2243	Freeze-Thaw Resistance of Latex and Emulsion Paints
09/B27	ASTM D2248	Detergent Resistance of Organic Finishes
09/829	ASTM D2486	Scrub Resistance of Interior Latex Flat Wall Paints
09/B30	ASTM 02801	Leveling Characteristics of Paints by Draw-Down Method
09/B31	ASTM 02805	Hiding Rower of Paints
00/032	ASTM D2000	Periotance to Crowth of Mold on the Surface of
07/872	ASIM DJ2/J	Interior Coatings in an Environmental Chamber
09/833	ASTM D3274	Surface Disfigurement of Paint Films by Fungal
07/022	10111 00214	Growth or Soil and Dirt Accumulation
09/93/	ASTM 03/150	Washahility Properties of Interior Architectural Coations
09/035	ASTM D3/52	Succeptability of Daint Films to Microbioligical Attack
	ASTM 02420	Abracion Registerios of Organia Costings by the
09/83/	AS IM 04060	AUTASION RESISTANCE OF UTGANIC COATINGS BY THE TABER Abraser
09/838	ASTM DADG2	Leveling of Paints by Draw_Down Method
00/070	ASTM 04002	Wat Abmaion Desistance of Interior Daint by Weight Less
00/000	ACT 04213	Chalking of Extension Deint Ciles Method & D. O. D. 5
09/840	ASIM D4214	Charking of Excertor Maint Films, Method A, B, C, D & E
09/841	Fed. Std. 141	Sag lest (Multinotch Blade)
	Method 4494	
09/842	Fed. Std. 141	Drying Time
	Method 4061	

09/C02	ASTM D95	Water in Petroleum Products and Bituminous
09/006	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/007	ASTM D1133	Kauri-Rutanol Value of Hydro-cathon Solvents
09/008	ASTM D1208	Common Properties of Certain Pigments
09/009	ASTM 01259	Nonvolatile Content of Resin Solutions Method A & R
09/C11	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in
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/C29	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) Paints and Related Coatings
09/C40	ASTM D4017	Water in Paints and Paint Materials by Karl Fischer Method
09/001	ASTM B117	Salt Spray (Fog) Testing
09/002	ASTM D609	Preparation of Steel Panels for Testing Paints
09/003	ASTM D922	Varnish, Lacquer, and Related Products, Method A, B, C, & D
09/002	ASIM DOZZ	(Carbon Are Tupe) for Testing Point Versich Lesguer
		and Pelated Products
09/004	ASTM D823	Producing Films of Uniform Thickness of Paint
07,001	ASTA BODS	Varnish, Lacquer, and Related Products on
		Test Panels. Method B & D
09/005	ASTM D1006	Exterior Exposure Tests of Paints on Wood
09/D06	ASTM D1014	Exterior Exposure Tests of Paints on Steel. Method B.C.D & E
09/007	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
09/013	ASTM D3924	Standard Environment for Conditioning and Testing
00 (01 (10714 007	Paint, Varnish, Lacquer, and Related Materials
09/014	ASIM G25	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
13/001	ASTM C-510	Staining and Color Change
13/002	ASTM C-603	Extrusion Rate and Application Life
13/003	ASTM C-639	Rheological (Flow) Properties
13/004	ASTM U-661	Indentation Hardness by Durometer
13/002	ASIM C-679	lack-Free lime
13/007		Voldtilly
13/009	ASTM C-712	Publica
13/009	ASTM C-712	Sino
13/010	ASTM C-718	UV-Cold Box Exposure
13/011	ASTM C-719	Adhesion and Cobesion 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	ASIM C-793	Effects of Accelerated Weathering
13/021	ASTM C 910	Adnesion-in-Peel
13/023	ASTM 0 2202	Slump
13/02/	ASTA D-2202	Staining
13/025	ASTM D-2376	Slumo
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

GIFFORD-HILL & CO. INC. TECHNICAL SERVICES DIVISION LABORATORY 1621 Falcon Drive, DeSoto, TX 75115 K.S. Pryor, II Phone 214-224-9296

Accreditation Renewal Date: January 1, 1988

NVLAP	Test
Method	i Code

02/A02

Test Method Designation

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

Making and Curing Concrete Test Specimens in the field Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content (Gravimetric) Air Content of Freshly Mixed Concrete by the Pressure Method Air Content Volumetric Method Compressive Strength of Cylindrical Concrete Specimens Capping Cylindrical Specimens

NVLAP LAB CODE 0255

UNDERWRITERS LABORATORIES INC. 333 Pfingsten Road, Northbrook, IL 60062 Steve Mazzoni Phone: 516-271-6200

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code Test Method Designation

ASTM C617

12/C01Conducted Emissions, Power Lines, 450 KHz to 30 MHz
FCC Method - 47 CFR Part 15 Subpart J12/R01Radiated Emissions, 30 MHz to 1000 MHz
FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0256

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

Accreditation Renewal Date: April 1, 1987

NVLAP Code	Designation	<u>Short Title</u>
08/P03	ASTM C423	Sound Absorption and Sound Absorption Coefficients
08/P06	ASTM E90	Airborne Sound Transmission Loss of Building Partitions

NVLAP LAB CODE 0257

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

Accreditation Renewal Date: July 1, 1987

WLAP Code	Designation	Short Title
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content
	ASTM C231 ASTM C173	Content-Pressure Method Content-Volumetric Method
02/A01	ASTM C39	Compressive Strength of Cylindrical Specimens

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

ACCIEDITATION RENEWAL DATE	s: jui	уΙ,	1987
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NVLAP Code	Designation	Short T	itle			
01/T06	ASTM C518	Thermal	transmission	properties:	Heat	f

Thermal transmission properties: Heat flow meter

NVLAP LAB CODE 0259

MACMILLAN BLOEDEL INC. TECHNICAL DEPARTMENT TESTING LABORATORIES ٠ P.O. Box 336, Pine Hill, AL 36769 G. S. Overstreet Phone: 205-963-4391

Accreditation Renewal Date: July 1, 1987

NVLAP Code	Test Method Designation	Short Title
Paper and Pa	aperboard	
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 ASTM D644	Moisture in Paper and Paperboard
09/E08	TAPPI T414-OM ASTM D689	Internal Tearing Resistance of Paper
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 ASTM D1164	Ring 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 Method 807	Wet Shear Adhesion Test of Corrugated 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, 1987

NVLAP Code	Designation	Short Title
01/502 01/511	ASTM C203 ASTM D1621	Breaking load/flexural strength; Preformed block insulation 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 J. D. Waldman Phone: 213-532-3842

Accreditation Renewal Date: January 1, 1988

01/D07 ASTM C272 Weter abcorptions Core materials	
UT/DU/ ASIM CZ/Z Water absorption; tore materials	
01/D09 ASTM C303 Density; Preformed block insulation	
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/D29 California Energy Commission tests for insulating materials: Installed compressed thickness	
01/S01 ASTM C165 Compressive properties: Thermal insulation (proc. /)
01/S02 ASTM C203 Breaking load/flexural strength; Preformed block in	sulation
01/S09 ASTM D781 Puncture test; Paperboard and fiberboard	
01/S10 ASTM D828 Tensile breaking strength; Paper and paperboard	
01/S11 ASTM D1621 Compressive properties; Rigid cellular plastics (proc. A-Crosshead)	
01/T06 ASTM C518 Thermal transmission properties; Heat flow meter	
01/V04 ASTM E96 Water vapor transmission; Thin sheets (proc. A)	

NVLAP LAB CODE 0263

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	\prime 1,	, 1988
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NVLAP Code	Test Method Designation	Short Title
Paints and F	Related Coatings	
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 Ford Viscosity Cup
09/A12 09/A16	ASTM D1210 ASTM D1400	Fineness of Dispersion of Pigment-Vehicle Systems Dry Film Thickness of Non-conductive Coatings Applied to a Nonferrous Metal Base
09/A17 09/A18 09/A19	ASTM D1475 ASTM D1544 ASTM D1729	Density of Paint, Varnish, Lacquer, and Related Products 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
09/A21	ASTM D3278	Flash Point of Liquids by Setaflash Closed Tester,
00/022	ACTH 03363	Michilds A & D
07/AZZ	ASTM 02202	Film Aaroness by Fencil Test
U9/A25	ASIM D4212	Viscosity by Dip-Type Viscosity cups
09/A26	ASTM E97	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
Measurement	s of Performance and	Performance Change
09/805	ASTM D659	Chalking of Exterior Paints
09/806	ASTM D660	Charling of Exterior Paints
09/807	ASTM D661	Cracking of Exterior Baints
00/00/	ASTM DCC2	Erecting of Exterior Painto
097800	ASTA 0714	
09/BI0	ASIM D/14+	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B12	ASTM D821	Abrasion, Erosion or a Combination of Both in Road Service Tests of Traffic Paints
09/B14	ASTM D869	Settling of Traffic Paint
09/B15	ASTM D870	Water Immersion lest of Arganic Coatings on Steel
00/01/		Chinging of Traffic Daint
09/810	ASIM UPIS	chipping of fratile Paint
09/81/	ASIM D968	Falling Abrasive Tester, Methods A & B
09/B18	ASTM D969	Bleeding of Traffic Paint
09/B20	ASTM D1309	Settling Properties of Traffic Paint During
09/023		Drying Curing or Film Formation of Organic
00/02/	ACTH 01777	Diving, Contract of Contraction of Galic
09/824	ASIM UI737	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
00 /0 77	ACTH 040/0	broken of and bit Accountiation
07/02/	ASTM D4060	Abrasion Resistance of Organic Coatings by Taber Abraser
09/B40	ASIM D4214	Chalking of Exterior Paint Films, Methods A, B, C, & D
09/B41	Fed. Std. 141	Sag Test (Multinotch Blade)
	Method 4494	
09/842	Fed. Std. 141 Method 4061	Drying Time
Measurement	of Chemical Propert	ies and Compositions
09/C02	ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
09/004	ASTM D563	Phthalic Anhydride Content of Alkyd Resins and Resin
		Solutions
09/006	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/007	ASTM D1133	Kauri-Butanol Value of Hydro-cathon Solvents
00/000	ACTM 01250	Norvolatile Costant of Perin Solutions Methods A & B
00/00/	ASTM 01200	Notice in the second of the second se
09/010	ASIM DISUS	Pricialic Annyolice Concent of Alkyo Results and
09/011	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in
		Paint, Varnish, Lacquer and Related Products
09/014	ASTM 01397	Unsaponifiable Matter in Alkyd Resins and Resins Solutions
09/C15	ASTM D1398	Fatty Acid Content of Alkyd Resins and Alkyd Resin
00/017		Solutions, Methods A & B
09/01/	ASTM D1467	Fatty Acids Used in Protective Coatings
09/C20	ASTM D1613	Acidity in Volatile Solvents and Chemical Intermediates Used
09/021	ASTM DI639	Acid Value of Organic Costing Materials
09/022		Nonvolatile Content of Varnishes Mathods A & R
09/022	ACTN 01652	Form Content of From Bogins
07/623	ASIM U1022	Epuxy current of Epuxy Restns
09/026	AS IM D2369	Volatile Content of Paints, Procedures A & B
09/C27	ASTM D2371	Pigment Content of Solvent-Type Paints
09/C29	ASTM D2698	Pigment Content Of Solvent-Type Paints by
		High-Speed Centrifuging
09/030	ASTM 02832	Nonvolatile Content of Paint and Paint Materials
09/031	ASTM D3009	Composition of Turpentine by Cas Chromatography
09/032	ASTM 03271	Direct Injection of Solvent-Rase Paints into a Cas
09/092	NJM 072/1	Chromatograph for Solvent Analysis

09/C34	ASTM D3335	Low Concentrations of Lead, Cadmium, and Cobalt in
09/C35	ASTM D3624	Low Concentrations of Mercury in Paint by Atomic
09/036	ASTM D3718	Low Concentrations of Chromium in Paint by Atomic Absorption Spectroscopy
09/039	ASTM D3960	Volatile Organic Contents (VOC) of Paints and Related Coatings
	1. Oradiki stan and -	

Test Sample Conditioning and Preparation

09/D01	ASTM B117	Salt Spray (Fog) Testing
09/007	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

NVLAP LAB CODE 0264

SHELTON RESEARCH, INC. 1517 Pacheco Street, P.O. Box 5235, Santa Fe, NM 87502 Richard S. Blackburn Phone: 505-983-9457

Accreditation Renewal Date: January 1, 1988

	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	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

WEYERHAEUSER TECHNOLOGY CENTER Mail Stop WTC 1814, Tacoma, WA 98477 Tom Friberg Phone: 206-924-6204

Accreditation Renewal Date: April 1, 1987

NVLAP Code	Test Method Designation	Short Title
		Paper and Related Products
Paper and Pa	aperboard	
09/E02	TAPPI T402-OM	Standard Conditioning and ASTM D685 Testing Atmospheres for Paper, Board, Pulo Handsheets and Related Products
09/E03	TAPPI T403-0S	Bursting Strength of Paper
09/E05	TAPPT TAID-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 ASTM D644	Moisture in Paper and Paperboard
09/E08	TAPPI T414-OM ASTM D689	Internal Tearing Resistance of Paper
09/E09	TAPPI T425-OM	Opacity of Paper (15/Diffuse Illuminant A, 89% Reflectance Backing and Paper Backing)
09/E11	TAPPI T452-OM	Brightness of Pulp, Paper and Paperboard
09/E12	TAPPI T459-OM ASTM D2482	Surface Strength of Paper (Wax Pick Test)
09/E13	TAPPI T460-0M ASTM D726	Air Resistance of Paper
09/E15	TAPPI T480-05	Specular Gloss of Paper and Paper-board at 75 Degrees
09/E16	TAPPI T489-0S	Stiffness of Paperboard
09/F17	TAPPT TA94-OM	Tensile Breaking Properties of Paper and Paperboard

(Using Constant Rate of Elongation Apparatus) Folding Endurance of Paper (MIT) Tester

Sheffield Smoothness of Paper and Paperboard (air Flow Method) Flat Crush of Corrugating Medium (CMT Test) Ring Crush of Paperboard

Pressure Sensitive Tapes

TAPPI T511-OM ASTM D2176 TAPPI T538-PM

TAPPI T809-OM TAPPI T818-OM ASTM D1164

ASTM D3330, D3330M	Test for Peel Adhesion of Pressure-Sensitive Tape at 180-deg Angle
ASTM D3652	Test for Thickness of Pressure-Sensitive and Gummed Tapes
ASTM D3654, D3654M	Test for Holding Power of Pressure-Sensitive Tapes
ASTM D3662	Test for Bursting Strength of Pressure-Sensitive Tapes
ASTM D3715	Practice for Quality Assurance of Pressure-Sensitive Tapes
	ASTM D3330, D3330M ASTM D3652 ASTM D3654, D3654M ASTM D3662 ASTM D3715

Packaging

09/E18

09/E19

09/E20

09/E21

09/H01	ASTM D642	Compression Test for Shipping Containers
09/H02	ASTM D895	Test for Water Vapor Permeability of Packages
09/H03	ASTM D1008	Tests for Water Vapor Transmission of Shipping Containers

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

09/H07	Method 5005.1	Cornerwise Drop (Rotational) Test
09/H08	Method 5007.1	Drop Test (Free Fall)
09/H09	Method 5008.1	Edgewise Drop (Rotational) Test
09/H19	Method 5019.1	Vibration (Repetitive Shock) Test
09/H20	Method 5020.1	Vibration (Sinusoidal Motion) Test
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/H 3 0	TAPPI T821PM	Pin Adhesion of Corrguated Board by Selective Separation

UNITED STATES TESTING COMPANY, INC. CHEMICAL SERVICES DIVISION 1415 Park Avenue, Hoboken, NJ 07030 Stephen C. Pevera Phone: 201-792-2400

Accreditation Renewal Date: January 1, 1988

NVLAP Code Designation

Short Title

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	ASTM D185	Coarse Particles in Pigments, Pastes and Paints
09/405	ASTM D281*	Ail Absorption of Bigments by Spatula Rub-Out
09/007	ASTM D523	Snoular Close
09/008		Consistency of Points Using the Stormer Viccomater
09/400	AS IM DJOZ	consistency of Paints Using the Stormer Viscometer
		Procedures A & B
U9/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
09/016	ASTM 01/00	Dry Eilm Thickness of Non-conductive Costings
07/ 1120	ASTA DI400	Applied to a Nonferrous Matal Pase
09/017	ASTM 01475	Applied to a Norrellous Metal Dase
09/ 41/	ASTM D1475	Density of Paint, Vanish, Lacquer, and Related Products
U9/A20	ASTM DZZ44	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	s of Performance and Per	formance Change
09/B04	ASTM D610	Rusting on Painted Steel Surfaces
09/B05	ASTM D659	Chalking of Exterior Paints
09/806	ASTM D660	Checking of Exterior Paints
09/007	ASTM DCCI	Creaking of Exterior Paints
00/00/		Cracking of Exterior Paints
07/800	ASTM DOOZ	Ploston of Excellor Paints
09/810	ASIM D/14	Blistering of Paints
09/B11	ASTM D772	Flaking (Scaling) of Exterior Paints
09/B12	ASTM D821	Abrasion, Erosion or a Combination of Both
		in Road Service Tests of Traffic Paints
09/B13	ASTM D868	Bleeding of Traffic Paint
09/B15	ASTM D870	Water Immersion Test of Organic Coatings on Steel
09/B16	ASTM D913	Chipping of Traffic Paint
09/B17	ASTM D968	Abrasion Resistance of Ornanic Coations by the
077017	AJTH D700	Abitasion hesistance of organic coutings by the
		Falling Abrasive Tester Methods A & B
00/010	ASTN D1309	Falling Abrasive Tester, Methods A & B
09/B19	ASTM D1308	Falling Abrasive Tester, Methods A & B Effect of Household Chemicals on Clear and
09/B19 09/B21	ASTM D1308 ASTM D1360	Falling Abrasive Tester, Methods A & B Effect of Household Chemicals on Clear and Fire-Retardancy of Paints (Cabinet Method)
09/B19 09/B21 09/B23	ASTM D1308 ASTM D1360 ASTM D1640	Falling Abrasive Tester, Methods A & B Effect of Household Chemicals on Clear and Fire-Retardancy of Paints (Cabinet Method) Drying, Curing, or Film Formation of Organic
09/819 09/821 09/823 09/824	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737	Falling Abrasive Tester, Methods A & B 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
09/819 09/821 09/823 09/824	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737	Falling Abrasive Tester, Methods A & B 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/B19 09/B21 09/B23 09/B24 09/B25	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B
09/819 09/821 09/823 09/824 09/825 09/826	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints
09/819 09/821 09/823 09/824 09/825 09/826 09/827	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes
09/B19 09/B21 09/B23 09/B24 09/B25 09/B25 09/B26 09/B27 09/B29	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2248	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2248 ASTM D2248	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling, Characteristics of Paints Dates
09/B19 09/B21 09/B23 09/B24 09/B25 09/B26 09/B27 09/B29 09/B30 09/B33	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D22486 ASTM D2801 ASTM D2776	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surgeon Discourses and Emulsion Paints
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D22486 ASTM D2486 ASTM D2801 ASTM D3274	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2248 ASTM D2486 ASTM D2801 ASTM D3274	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation
09/819 09/823 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833 09/834	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2486 ASTM D2486 ASTM D2801 ASTM D3274 ASTM D3450	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings
09/819 09/823 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833 09/833	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2248 ASTM D2486 ASTM D2801 ASTM D3274 ASTM D3450 ASTM D3450 ASTM D4060	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings Abrasion Resistance of Organic Coatings by the Taber Abraser
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833 09/834 09/837 09/840	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2248 ASTM D2486 ASTM D2801 ASTM D3274 ASTM D3274 ASTM D3450 ASTM D4060 ASTM D4214	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings Abrasion Resistance of Organic Coatings by the Taber Abraser Chalking of Exterior Paint Films,
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833 09/834 09/837 09/840	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D22486 ASTM D2486 ASTM D2801 ASTM D3274 ASTM D3274 ASTM D3450 ASTM D4060 ASTM D4214	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings Abrasion Resistance of Organic Coatings by the Taber Abraser Chalking of Exterior Paint Films, Methods A, B, C, D, & E
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833 09/833 09/834 09/837 09/840	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2486 ASTM D2486 ASTM D2801 ASTM D3274 ASTM D3450 ASTM D3450 ASTM D4060 ASTM D4214 Fed. Std. 141	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings Abrasion Resistance of Organic Coatings by the Taber Abraser Chalking of Exterior Paint Films, Methods A, B, C, D, & E Sag Test (Multinotch Blade)
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833 09/833 09/834 09/837 09/840	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2486 ASTM D2801 ASTM D3274 ASTM D3274 ASTM D3450 ASTM D4060 ASTM D4060 ASTM D4214 Fed. Std. 141 Method 4494	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings Abrasion Resistance of Organic Coatings by the Taber Abraser Chalking of Exterior Paint Films, Methods A, B, C, D, & E Sag Test (Multinotch Blade)
09/819 09/821 09/823 09/824 09/825 09/826 09/827 09/829 09/830 09/833 09/833 09/837 09/840 09/841	ASTM D1308 ASTM D1360 ASTM D1640 ASTM D1737 ASTM D2197 ASTM D2243 ASTM D2248 ASTM D2248 ASTM D2248 ASTM D2801 ASTM D3274 ASTM D3274 ASTM D3450 ASTM D4060 ASTM D4060 ASTM D4214 Fed. Std. 141 Method 4494 Fed. Std. 141	Falling Abrasive Tester, Methods A & B 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 Adhesion of Organic Coatings, Methods A & B Freeze-Thaw Resistance of Latex and Emulsion Paints Detergent Resistance of Organic Finishes Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings Abrasion Resistance of Organic Coatings by the Taber Abraser Chalking of Exterior Paint Films, Methods A, B, C, D, & E Sag Test (Multinotch Blade) Dryion Time

09/C02	ASTM D95	Water in Petroleum Products and Bituminous Materials by Distillation
09/006	ASTM D1078	Distillation Range of Volatile Organic Liquids
09/009	ASTM D1259	Nonvolatile Content of Resin Solutions, Methods A & B
09/011	ASTM D1353	Nonvolatile Matter in Volatile Solvents for Use in
07/014	NOTIFI DECOS	Paint Varoish Languer and Palated Products
09/012	ASTM D1364	Water in Volatile Solvents (Fischer Descent
07/012	AS111 D1204	Titactica Motord
00/015	1074 01700	Estimation Methody of Alland Desire and Alland Desire
09/015	ASIM DI 298	Solutions, Methods A & B
09/C19	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
09/021	ASTM D1639	Acid Value of Organic Coating Materials
09/022	ASTM DIG44	Nonvolatile Content of Varnishes Methods A & B
09/023	ASTM D1652	Enovy Content of Enovy Desins, Houlds A 4 B
09/02/	ASTA D2075	Indian Violue of Fatty Aminon Amideomione and Diaminos
09/024	ASTM D2075	locities value of Facty Anthes, Anthonisties, and Diantifies
09/625	ASIM UZU76	Acto value and Amine value of Facty Quaternary Ammonium Chlorides
09/C26	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
09/029	ASTM D2698	Pigment Content Of Solvent-Type Paints
077 027	10111 02070	by High-Speed Centrifuging
09/031	000E0 MT20	Composition of Turpentine by Cas Chromatography
09/032	ASTM 03007	Direct Injection of Solvert Base Baints into a Cas
077072	ASTM DJZ71	Characteria of Solvent Applying
00/077	ACTN D 3070	Chromatograph for Solvent Analysis
097633	ASIM UJZIZ	vacuum Distiliation of Solvents from Solvent-Base
00/077		Paints for Analysis
09/03/	ASTM 03723	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/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	ASTM B117	Salt Spray (Fog) Testing
09/002	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 Papels, Method B
09/D07	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/D13	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

NVLAP LAB CODE 0267

RETLIF, INC. TESTING LABORATORIES 795 Marconi Avenue, Ronkonkoma, NY 11779 Walter A. Poggi Phone: 516-737-1500

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code Test Method Designation

12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
	FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz
	FCC Method - 47 CFR Part 15 Subpart J

 12/T01 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
68.302 Environmental simulation, Para. c, d, e, f
68.304 Leakage current limitations
68.306 Hazardous voltage limitations
68.308 Signal power limitations
68.310 Longitudinal balance limitations
68.312 On-hook impedance limitations
68.314 Billing protection
12/T02 Terminal Equipment Compatibility

FCC Method - 47 CFR Part 68 Subpart D

68.316 Hearing aid compatibility: technical standards

12/T03 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0268

EMACO, INC. 7562 Trade Street, San Diego, CA 92121 Herbert K. Mertel Phone 619-578-1480

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code Test Method Designation

12/C01Conducted Emissions, Power Lines, 450 KHz to 30 MHz
FCC Method - 47 CFR Part 15 Subpart J12/R01Radiated Emissions, 30 MHz to 1000 MHz
FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0269

NORAND CORPORATION 550 Second Street, S.E., Cedar Rapids, IA Michael W. Howard Phone: 319-369-3539

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code Test Method Designation

12/CO1 Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J 12/RO1 Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0270

DASH, STRAUS, & GOODHUE, INC. 593 Massachusetts Avenue, Boxborough, MA 01719 Glen Dash Phone: 617-263-2662

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code

de Test Method Designation

12/C01Conducted Emissions, Power Lines, 450 KHz to 30 MHzFCC Method - 47 CFR Part 15 Subpart J12/R01Radiated Emissions, 30 MHz to 1000 MHzFCC Method - 47 CFR Part 15 Subpart J

12/TOI Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D 68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection

12/TO2 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.316 Hearing aid compatibility: technical standards

NVLAP LAB CODE 0271

AMADOR CORPORATION Wild Mountain Road, Almelund, MN 55002 Daniel D. Hoolihan Phone: 612-583-3322

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code	Test Method Designation
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection

12/T02 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.316 Hearing aid compatibility: technical standards

NVLAP LAB CODE 0272

COMMUNICATION CERTIFICATION LABORATORY 1940 West Alexander Street, Salt Lake City, UT 84119 Thomas C. Jackson Phone: 801-972-6146

Accreditation Renewal Date: October 1, 1987

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NVLAP Test Method Code	Test Method Designation	
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz	
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J	
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D	
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations	
68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection

12/T02 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.316 Hearing aid compatibility: technical standards

12/T03 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0273

MET ELECTRICAL TESTING COMPANY, INC. 916 West Patapsco Avenue, Baltimore, MD 21230 Leonard Frier Phone: 301-354-2200

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code	Test Method Designation
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/R01	FCC Method - 47 CFR Part 15 Subpart J Radiated Emissions, 30 MHz to 1000 MHz
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation. Para. c. d. e. f

68.302 Environmental Simplation, Para. C, U, E, T 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection

12/TO2 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.316 Hearing aid compatibility: technical standards

12/T03 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0274

GTE EVALUATION & SUPPORT DEPARTMENT 3050 Harrodsburg Road, Lexington, KY 40503 Clifford Eugene Jones Phone: 606-223-3061

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code	Test Method Designation	
12/001	Conducted Emissions, Power Lines, 450 KHz to 30 MHz FCC Method - 47 CFR Part 15 Subpart J	
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J	
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D	
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations	

	68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection
12/T02	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.316 Hearing aid compatibility: technical standards
12/103	Terminal Equipment Compatibility

12/T03 Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D

68.302 Environmental simulation, Para. a, b

NVLAP LAB CODE 0275

AT & T INFORMATION SYSTEMS EMC LABORATORY MS: Building 41-112, Crawfords Corner Road, Holmdel, NJ 07733 D.N. Heirman Phone: 201-834-3566

Accreditation Renewal Date: October 1, 1987

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Method CodeTest Method Designation12/C01Conducted Emissions, Power Lines, 450 KHz to 30 MHz
FCC Method - 47 CFR Part 15 Subpart J
Radiated Emissions, 30 MHz to 1000 MHz
FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0276

D.L.S. ELECTRONIC SYSTEMS, INC. 10350 Dearlove Road, Glenview, IL 60025 Donald L. Sweeney Phone: 312-699-9060

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code

NVLAP Test

Test Method Designation

12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
	FCC Method - 47 CFR Part 15 Subpart J
12/R01	Radiated Emissions, 30 MHz to 1000 MHz
	FCC Method - 47 CFR Part 15 Subpart J

NVLAP LAB CODE 0277

CONTINENTAL TESTING LABORATORIES 8385 South U.S. Highway 17-92, Fern Park, FL 3730-2898 Chester A. Mitchell Phone: 305-831-2700

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code	Test Method Designation
12/001	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/R01	Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart J
12/T01	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations

	68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection
12/T02	Terminal Equipment Compatibility FCC Method – 47 CFR Part 68 Subpart D
	68.316 Hearing aid compatibility: technical standards
12/103	Terminal Equipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. a, b

ELITE ELECTRONIC ENGINEERING COMPANY 1516 Centre Circle, Downers Grove, IL 60515 James C. Klouda Phone: 312-495-9700

Accreditation Renewal Date: October 1, 1987

02/A01

NVLAP Test Method Code	Test Method Des	ignation		
12/001	Conducted Emissions, Power Lines, 450 KHz to 30 MHz			
12/R01	FCC Method - 47 CFR Part 15 Subpart J Radiated Emissions, 30 MHz to 1000 MHz FCC Method - 47 CFR Part 15 Subpart 1			
12/T01	Terminal Equip FCC Method - 43	CFR Part 68 Subpart D		
	68.302 Environ 68.304 Leakage 68.306 Hazardo 68.308 Signal (68.308 Signal (68.310 Longitud 68.312 On-hook 68.314 Billing	ental simulation, Para. c, d, e, f current limitations is voltage limitations ower limitations linal balance limitations impedance limitations protection		
12/T02	Terminal Equip FCC Method - 4 68.316 Hearing	ent Compatibility 7 CFR Part 68 Subpart D aid compatibility: technical standards		
12/T03	Terminal Equip FCC Method - 4 68.302 Environ	ent Compatibility CFR Part 68 Subpart D Mental simulation, Para. a, b NVLAP LAB CODE 027	9	
		PHILIPPINE GEOANALYTICS No. 3 Scout Magbanua Quezon City, Metro Manila, Philippines milio M. Morales Telex: 66156 HDADB PN		
Accreditation	Renewal Date:	July 1, 1987		
NVLAP Code	Designation	Short Title		
02/G01	ASTM C31 ASTM C172 ASTM C143 ASTM C138 ASTM C231	Making and Curing Test Specimens Sampling Freshly Mixed Concrete Slump of Portland Cement Concrete Unit Weight, Yield, and Air Content Air Content-Pressure Method		

ASTM C39 Compressive Strength of Cylindrical Specimens

R & B ENTERPRISES 20 Clipper Road West Conshohocken, PA 19428, Finbarr M. O'Connor, Jr. Phone: 215-825-1960

Accreditation Renewal Date: October 1, 1987

NVLAP Test Method Code	Test Method Designation
12/C01	Conducted Emissions, Power Lines, 450 KHz to 30 MHz
12/R01	Radiated Emissions, 30 MHz to 1000 MHz
12/T01	Terminal Êquipment Compatibility FCC Method - 47 CFR Part 68 Subpart D
	68.302 Environmental simulation, Para. c, d, e, f 68.304 Leakage current limitations 68.306 Hazardous voltage limitations 68.308 Signal power limitations 68.310 Longitudinal balance limitations 68.312 On-hook impedance limitations 68.314 Billing protection
12/T02	Terminal Equipment Compatibility FCC Method – 47 CFR Part 68 Subpart D
	68.316 Hearing aid compatibility: technical standards

NVLAP LAB CODE 0281

STANDARD T CHEMICAL TECHNICAL CENTER 10th & Washington Streets Chicago Heights, IL 60411 Mr. L.G. Hering 312-755-1223

Accreditation Renewal Date: October 1, 1987

NVLAP Code	Test Method Designation	Short Title
Measurement	s of Intrinsic Physic	al Properties
09/A01 09/A07 09/A08	ASTM D56 ASTM D523 ASTM D562	Flash Point by Tag Closed Tester Specular Gloss Consistency of Paints Using the Stormer Viscometer Procedures A & B
09/A12 09/A15 09/A17 09/A26	ASTM D1210 ASTM D1310 ASTM D1475 ASTM E97	Fineness of Dispersion of Pigment-Vehicle Systems Flash-Point of Liquids by Tag Open-Cup Apparatus Density of Paint, Varnish, Lacquer, and Related Products 45- deg, O-deg Directional Reflectance Factor of Opaque Specimens by Broad-Band Filter Reflectometry
09/A28 Measureme	ASTM E313	Indexes of Whiteness and Yellowness of Near-White Opaque Materials d Performance Change
09/B03 09/B05 09/B06 09/B07 09/B08 09/B10 09/B11 09/B23 09/B29 09/B30 09/B32	ASTM D344 ASTM D659 ASTM D660 ASTM D661 ASTM D662 ASTM D714 ASTM D772 ASTM D1640 ASTM D2486 ASTM D2801 ASTM D3273	Relative Dry Hiding Power of Paints Chalking of Exterior Paints Checking of Exterior Paints Cracking of Exterior Paints Erosion of Exterior Paints Blistering of Paints Flaking (Scaling) of Exterior Paints Drying, Curing, or Film Formation of Organic Scrub Resistance of Interior Latex Flat Wall Paints Leveling Characteristics of Paints by Draw-Down Method Resistance to Growth of Mold on the Surface of

Interior Coatings in an Environmental Chamber

09/B33	ASTM	D3274
09/833	ASIM	03274

09/B34 ASTM D3450 09/B37 ASTM D4060 09/B38 ASTM D4062 09/B40 ASTM D4062 09/B41 Fed. Std. 141 Method 4494 Surface Disfigurement of Paint Films by Fungal Growth or Soil and Dirt Accumulation Washability Properties of Interior Architectural Coatings Abrasion Resistance of Organic Coatings by the Taber Abraser Leveling of Paints by Draw-Down Method Chalking of Exterior Paint Films Sag Test (Multinotch Blade)

NVLAP LAB CODE 0501

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, 1988

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 II, IV, V, 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 LeeAnn Borcherding Phone: 314-344-3981

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing 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 OEPARTMENT Bethesda, MD 20814 Robert T. Devine Phone: 202-295-5414

Accreditation Renewal Date: October 1, 1988

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 TLO 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 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 Robert Dickey Phone: 714-368-6254

Accreditation Renewal Date: October 1, 1988

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.

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, 1988

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 4073, Washington, DC 20375 Kirk J. King Phone: 202-767-2232

Accreditation Renewal Date: January 1, 1989

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, V, VI, VII, VIII.

NVLAP LAB CODE 0510

GENERAL PUBLIC UTILITIES NUCLEAR CORPORATION OIVISION 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, 1988

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 Mr. George J. Vargo Phone: 315-342-3840

Accreditation Renewal Date: October 1, 1988

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 II, IV, VI, VII.

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, 1988

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 Beta TLD Lo Energy TLD TLD Albedo Film XBG Film XBGN Neutron Tracket	1 1,3* 1,3* 3*,6 6 6,7 tch 7	II, IV V, VII I, III, VI VIII I, II, III, I

* 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 0513

GULF NUCLEAR, INC. 100 E. Nasa Road One, #411, Webster, TX 77598 Joseph Pryber Phone: 713-338-2652

Accreditation Renewal Date: October 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Teledyne Automatic reader mcdel 9150.

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 loaded with a RGD-CaSO4:Dy-O.4 B/G card and a RGD-6LiF/CaSO4:Dy-O.4 Neutron card for ANSI-13.11 categories I, II, III, IV, V, VI, VII, and VIII.

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.

THERMO ANALYTICAL INC. TMA/EBERLINE 5635 Kircher Boulevard NE Post Office Box 3874 Albuquerue, NM 87190-3874 Nels Johnson Phone: 505-345-9931

Accreditation Renewal Date: October 1, 1988

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 dosimeters 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.

Eberline Albedo (4 TLD100 chips) for ANSI-N13.11 Category 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

NVLAP 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, 1988

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.

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, North Carolina Harris Nuclear Project, New Hill, North Carolina

NVLAP 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, 1988

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

		Film	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	mod	4 chip "GARDRAY"	2	I, II, III, IV, V, VI, VII
D		3 700 chip Harshaw card	3	II, IV, V, VII
I		Neutrak ER	3,4	VIII
T		ified - 3 100/700 chips	2	I, II, III, I

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.

La	nda	uer designation Film	Process	ANSI N13.11 Category
B	-	G badge plus CR-39	1,4,5	I through VIII
P	-	and Cadmium G badge plus NTA	1,4,5 1,4,5	I through VIII I, II, III, IV, V, VI, VII, VIII
Н	-	G badge plus NTA and Cadmium	1,4,5	I through VIII
A J	-	G badge plus polycarbonate G badge plus polycarbonate	1,4,5	I, II, III, IV, V, VI, VII, VIII
Y R	-	G badge plus Cadmium G badge plus ER	1,4,5	I, III I, III I, II, III, IV, V, VI, VII, VI
Q	-	DEX-RĂY	1,4,5	I, III
_		TLD		
F	-	L badge plus CR-39 L badge plus polycarbonate	2,4 2,4 2.3.4	I through VIII I through VIII I through VIII
Т	-	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 Ca	tegories I,	II,	III,	IV. V.	VI.	VII
L	-	TLD 4 chip "GARDRAY"	ANSI N13.11 Ca	ategories I,	II,	III,	IV, V,	VI,	VII
-			- ANIGT 117 11 A.						

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 (LF.) 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, 1988

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 II, IV, VII.

NVLAP LAB CODE 0520

VIRGINIA ELECTRIC AND POWER COMPANY NORTH ANNA POWER STATION P.O. Box 402, Mineral, VA 23117 Henry F. Kahnhauser Phone: 703-894-5151

Accreditation Renewal Date: October 1, 1988

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.

DUQUESNE LIGHT COMPANY NUCLEAR DIVISION - BEAVER VALLEY FOWER 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.

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

NVLAP LAB CODE 0522

CONSUMERS POWER COMPANY PERSONNEL DOSIMETRY LABORATORY 1945 Parnall Road, Jackson, MI 49201 Karl H. Andrews Phone: 517-788-0433

Accreditation Renewal Date: October 1, 1988

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, 1989

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 Neill Stanford Phone: 617-872-8100

Accreditation Renewal Date: October 1, 1988

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 Larry Breshears Phone: 316-364-8831

Accreditation Renewal Date: January 1, 1989

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, III, IV, V, VI, 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 HEALIH 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.

NVLAP LAB CODE 0532

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.

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,

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

NVLAP LAB CODE 0534

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.

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,

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

NVLAP LAB CODE 0538

CON EDISON INDIAN POINT STATION Broadway and Bleakly Avenue, Buchanan, NY 10511 Philip J. Gaudio Phone: 914-526-5248

Accreditation Renewal Date: April 1, 1988

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

NORTHEAST UTILITIES SERVICE COMPANY RADIOLOGICAL ASSESSMENT BRANCH P.O. Box 270, Hartford, CT 06141 Henry W. Siegrist Phone: 203-665-3591

Accreditation Renewal Date: January 1, 1988

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

NVLAP LAB CODE 0541

COMMONWEALTH EDISON COMPANY 72 West Adams Street, Room 1248 Eileen A. O'Connor Phone: 312-294-8520

Accreditation Renewal Date: January 1, 1988

Dresden Station Quad Cities Station Zion Station

These facilities listed have been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Panasonic Automatic reader model UD710A.

These facilities are 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.

NVLAP LAB CODE 0542

ARIZONA STATE UNIVERSITY RADIATION MEASUREMENTS FACILITY College of Engineering and Applied Sciences Electrical and Computer Engineering Tempe, AZ 85287 G. William Klingler Phone: 602-965-065

Accreditation Renewal Date: October 1, 1988

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 category IV.

NEW HAMPSHIRE YANKEE SEABROOK STATION P.O. Box 300, Route 1, Seabrook, NH 03874 Priscilla J. Neault Phone: 603-474-9574

Accreditation Renewal Date: January 1, 1988

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 UD813 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII.

Panasonic TLD combination UD809 and UD813 for ANSI-N13.11 category VIII.

NVLAP LAP CODE 0544

FLORIDA POWER & LIGHT 9250 West Flagler Street P.O. Box 029110, Miami, FL 33102 Sander C. Perle Phone: 305-552-3669

Accreditation Renewal Date: July 1, 1988

This facility has been evaluated and deemed competent to process the radiation dosimeter listed below through employing a Harshaw Automatic reader model 8000.

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 LG-7777 for ANSI-N13.11 categories I, II, III, IV, V, VI, VII and Harshaw TLD model L-NG7677 for ANSI-N13.11 category VIII.

NVLAP LAP CODE 0545

WASHINGTON PUBLIC POWER SUPPLY SYSTEM P.O. Box 968, 3000 George Washington Way Richland, WA 99352 Mr. David B. Ottley Phone: 509-377-8048

Accreditation Renewal Date: July 1, 1988

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

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 with CaSO4 Beta/gamma card, both primary and back up areas for ANSI-N13-11 category II, IV, V, VII, VIII.

Teledyne TLD model PB3 with CaSO4 Beta/gamma card and 6LIF/CaSO4 Neutron card both primary and back up areas for ANSI-N13-11 category VIII.

MISSISSIPPI POWER & LIGHT GRAND GULF NUCLEAR STATION P.O. Box 756, Port Gibson, MS 39150 Tommy E. Tankersley Phone: 601-437-2369

Accreditation Renewal Date: July 1, 1988

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 0547

SOUTH CAROLINA ELECTRIC & GAS COMPANY P.O. Box 764, Columbia, SC 29218 Gregory G. Hall Phone: 803-345-1915

Accreditation Renewal Date: July 1, 1988

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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-N13.11.11-1983 through testing.

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

NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM PROCEDURES

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

(Effective December 1984)

Subpart A - General Information

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Subpart D - Conditions and Criteria for Accreditation

7.31 Application of accreditation conditions and criteria.

- Conditions for accreditation.
- 7.33 Criteria for accreditation.

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

SUBPART A - GENERAL INFORMATION

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:

- 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.

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:

One-third from federal, state and local governments;
 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 laboratories;
- (3) Advising on the necessity and implementation of proposed amendments to the criteria referenced in Section 7.33;
- (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 private sector;
- (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:

- The needs and scope of the LAP initially requested;
 The needs and scope of the user population;
 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 health and safety;
- (6) The economic and technical feasibility of accrediting testing laboratories for the test methods, types of test methods, products, services, or standards requested; and
 (7) 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 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:

- (1) Public notice of meetings and other activities including requests for LAPs is provided in a timely factorial adjoint and in distributed to match the attention of intermeted persons.
- timely fashion and is distributed to reach the attention of interested persons;(2) 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:

- Identify the scope of the LAP; and
 Advise how to apply for accreditation.

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

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 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'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;
 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;

 - (4) Participate in proficiency testing as required.
 (5) 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;
 - (12) Report to the Director of OPSP within 30 days any major changes involving the location, (12) ownership, management structure, authorized representative, approved signatories, or facilities of the laboratory; and
 (13) Return to the Director of OPSP the certificate of accreditation for possible revision or
 - 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:

- (1) Legal name and full address:
- $\binom{2}{3}$ Ownership of the laboratory; Organization chart defining relationships that are relevant to performing testing covered
- in the accreditation request;
- (4) Ceneral description of the laboratory, including its facilities and scope of operation;
- (5) Name and telephone number of the authorized representative of the laboratory;
- Names or titles and qualifications of laboratory staff nominated to serve as approved signatories of test reports that reference NVLAP accreditation; and (6)
- (7) Other information as may be needed for the specific LAP(s) in which accreditation is 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 or equivalent (e.g., operations notebook) which is available for use by laboratory staff. A person(s) must be identified as having responsibility for maintaining the quality manual.
- (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 retesting, control charts, reference materials, and interlaboratory tests; 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. These reviews must be recorded with details of any corrective action taken.
- (b) Staff. (1) The laboratory shall: (1) 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) <u>Calibration</u>. The laboratory shall:
 (1) <u>Calibrate</u> 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
- 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.
- (g) Test Reports. (1) The laboratory shall issue test reports of its work which accurately, 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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12. KEY WORDS (Six to twelve	entries; alphabetical order; ca	pitalize only proper names; and separat	e key words by semicolons)					
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