Catalog of Federal Metrology and Calibration Capabilities
NATIONAL BUREAU OF STANDARDS

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


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Systems and Software — Computer Systems Engineering — Information Technology.

¹Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.
²Some divisions within the center are located at Boulder, Colorado, 80303.

The National Bureau of Standards was reorganized, effective April 9, 1978.
Catalog of Federal Metrology and Calibration Capabilities

Kathryn O. Leedy

Office of Measurement Services
National Measurement Laboratory
National Bureau of Standards
Washington, D.C. 20234

U.S. DEPARTMENT OF COMMERCE, Juanita M. Kreps, Secretary

Jordan J. Baruch, Assistant Secretary for Science and Technology

NATIONAL BUREAU OF STANDARDS, Ernest Ambler, Director

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CATALOG OF

FEDERAL METROLOGY AND CALIBRATION CAPABILITIES

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ABSTRACT

This publication lists Federal laboratories involved in metrology and calibration. Included is the name of a person at each laboratory to contact for more information as well as the laboratory telephone number and address. The capabilities of each laboratory are indicated in a tabular listing by agency. To provide geographical distribution, the laboratories are listed by States. In addition, the laboratories are shown on a map by coded number. Other references are described.

Key words: Calibration; Federal Government; laboratory; measurement; metrology; precision; test equipment.

I. INTRODUCTION

This is a directory of Federal measurement standards laboratories. For each laboratory listed, it includes the laboratory name and location, a point of contact with telephone number, and the laboratory capabilities. A geographical distribution is also given.

This information is assembled and maintained by the Office of Measurement Services at the National Bureau of Standards in conjunction with its program on the Federal use of precision measuring and test equipment (PMTE). The overall objective of this program is to coordinate improvements in the management and use of such equipment. In addition to compiling this catalog, NBS also hosts meetings to promote cooperation and information exchange among Federal agencies, holds workshops to discuss particular metrology problems, and issues handbooks to encourage uniform procedures.

This catalog will eventually include all Federal metrology laboratories concerned with calibrations on the primary or secondary standards level. The initial edition, however, contains only information assembled at the time of publication. Subsequent updated editions will be issued regularly. To receive copies, return the attached form or contact the Office of Measurement Services and ask to be on the "Capabilities Catalog Mailing List."

National Bureau of Standards
Office of Measurement Services
Physics B362
Washington, DC 20234
(301) 921-2805

This catalog is a compilation of information received from the agencies and laboratories listed. It should not be construed as an endorsement or rating of the individual laboratories by the National Bureau of Standards.

II. HOW TO USE THIS CATALOG

To locate a particular laboratory, consult the directory in Section III. Here the laboratories are listed alphabetically within the sections for each agency. A code number is assigned each laboratory for use in the geographical index (see Section V).
To obtain policy information from any of the agencies listed, contact the person listed for each agency in Section III.

To identify a laboratory with a particular capability, review the charts in Section IV. Here the laboratories are listed by name within the sections for each agency. The categories of capability are listed across the top of the chart (an explanation of the categories is given in Section VI). For each capability of a laboratory, there is a mark in the corresponding category column. Note also that there is a code after the laboratory that indicates if it is a member of the National Conference of Standards Laboratories (NCSL) and if the lab publishes its own capability catalog.

Capability catalogs of individual Federal laboratories may be obtained directly from the laboratories or, in some cases, from the NBS Office of Measurement Services. NBS can also provide NCSL membership kits (for more information on NCSL, see Section VII).

To locate laboratories in a given geographical area, consult Section V. It lists the laboratories by state and includes a map of the United States with the location of each laboratory noted by its number code.

Section VI describes the capability categories used in Section IV. Other sources of information are given in Section VII. Included are descriptions of the National Conference of Standards Laboratories and the Government-Industry Data Exchange Program (GIDEP) system. Readers are asked to suggest improvements for the next edition of the "Catalog of Federal Metrology and Calibration Capabilities." Please fill out and return the attached information form.
III. LABORATORY DIRECTORY

DEPARTMENT OF DEFENSE

Policy information:
Herbert L. Leonard, Jr.
Chairman, JTCG-METCAL
Wright-Patterson AFB, OH 45433
(513) 257-6163

Alternative Policy Contacts:
Air Force
Herbert L. Leonard, Jr.
Chairman, JTCG-METCAL
Wright-Patterson AFB, OH 45433
(513) 257-6163

Army
Jack Rivers
Directorate for Quality Assurance
DRCQA-PC
5001 Eisenhower Avenue
Alexandria, VA 22333
(202) 274-9868

Navy
Joe Siedlecki
MAT04T-2
HQ, Naval Material Command
Washington, DC 20360
(202) 692-2035

AIR FORCE

Laboratories:

A1 Air Force Measurement Standards Laboratories
AGMC/ML
Newark AFS
Newark, OH 43055
Lt. Col. C. Chrisman
(614) 522-7495
AV: 580-7495

Type IIA Laboratories:
A2 Bitburg AB GE
36 TFW/MAAML
APO, NY 09132
J. Sappe
06561-6-7765/7841
AV: 455-7765/7841

A3 Clark AB Phil
3 CRS/MACMP
APO SF 96274
T. Narasaki
AV: 822-33694

A4 Elmendorf AFB
343 CRS/MACP
AK 99506
S. Barankiewicz
(907) 752-3314
AV: (317) 752-3483

A5 Hill AFB
00-ALC/MACL
UT 84406
B. Peterson
(801) 777-2307
AV: 458-2307

A6 Kelly AFB
SA-ALC/MATL
TX 78241
G. Granato
(512) 925-8625
AV: 945-8625

A7 McClellan AFB
SM-ALC/MAIL
CA 95662
M. Bertolino
(916) 643-3121
AV: 633-3121

A8 Newark AFS
AGMC/MANL
OH 43055
G. Lovejoy
(614) 522-7283
AV: 580-7346
A9  Robins AFB
    WR-ALC/MANL
    GA  31098
    R. Grant
    (912) 926-3082
    AV:  468-3082 x2524

A10 Tinker AFB
    OC-ALC/MATL
    OK  73145
    C. Stueve
    (405) 734-2959
    AV:  735-2959

Type IIB-1 Laboratories:

A11 Chanute AFB
    3345 CMS/MAA/PMEL
    IL  61868
    W. Allen
    (217) 495-2446
    AV:  862-2446 x2167

A12 Ellsworth AFB
    28 AMS/MAAP
    SD  57706
    N. Sperle
    (605) 399-7966
    AV:  747-7966 x7549

A13 F E Warren AFB
    90 FMMS/MBAL
    WY  82001
    W. Spence
    (307) 775-2278
    AV:  461-2364 x2278

A14 Malmstrom AFB
    341 FMMS/MBAL
    MT  59402
    J. Hawkins, Jr.
    (406) 731-3703/3097
    AV:  632-3703

A15 Minot AFB
    5 AMS/MAAP
    ND  58705
    R. Hoffman
    (701) 727-4761 x3225
    AV:  344-3225

A16 Whiteman AFB
    351 FMMS/MBAL
    MO  65305
    P. Davis
    (816) 687-1110 x3415/3595
    AV:  975-3415 x3595

Type IIB-2 Laboratories:

A17 Albrook AFS CZ
    24 CAMS/MACL
    APO NY  09825
    H. Vela
    AV:  86-4138

A18 Altus AFB
    443 AMS/MAAP
    OK  73521
    L. Crovo
    (405) 481-6685
    AV:  866-6685

A19 Andersen AFB Guam
    43 AMS/MAAP
    APO SF  96334
    J. Brown
    AV:  (315) 366-5260/5269

A20 Andrews AFB
    OL-A, 89 FMS/MAAP
    MD  20331
    J. Fuentes
    (202) 767-5295/4336
    AV:  297-5295/4336
A21 Aviano AB Italy
40 CAMS/MAAML
APO NY 09293
J. Nevious
0434-651141
AV: 632-5631/5563

A22 Barksdale AFB
2 AMS/MAAP
LA 71110
H. Strickland
(318) 456-3842
AV: 781-3842

A23 Beale AFB
9 AMS/MAAP
CA 95903
R. Dant
(916) 634-2293/2336
AV: 368-2293/2336

A24 Bergstrom AFB
67 AMS/MAAL
TX 78743
G. Elam
(512) 385-4100 x2693/2694
AV: 685-2693/2694

A25 Blytheville AFB
97 AMS/MAAP
AR 72315
R. Babb
(501) 762-7487/7558
AV: 637-7478 x7558

A26 Camp New Amsterdam AB NE
32 TFS/MAAML
APO NY 09292
R. O'Boyle, Jr.
08384-1944
AV: x415/429

A27 Cannon AFB
27 CRS/MACE
NM 88101
A. Koshkorian
(505) 784-3311 x2672/2673
AV: 681-2676/2673

A28 Carswell AFB
7 AMS/MAAP
TX 76127
D. Fallon
(817) 735-7574/7787
AV: 739-7574/7787

A29 Castle AFB
93 AMS/MAAP
CA 95342
R. Nielsen
(209) 726-2811 x2302
AV: 347-2811 x2302

A30 Charleston AFB
437 AMS/MAAP
SC 29404
W. Aten
(803) 564-3281 x3683
AV: 583-3281 x3683

A31 Ching Chuan Kang Taiwan
6217 AB SQ/MAP
APO SF 96319
J. Ingram
AV: 723-0-3014/2822

A32 Columbus AFB
14 FMS/MAAP
MS 39701
J. Williamson
(601) 434-7551
AV: 742-7551 x7883

A33 Davis Monthan AFB
355 CRS/MACL
AZ 85707
F. Buser
(602) 748-4250 x5553
AV: 361-4250 x5553

A34 Dover AFB
436 MAW/MAAP
DE 19901
E. Bresnyan
(302) 678-7011 x6766/7293
AV: 455-6766/7293
A35 Duluth Intl Aprt
4787 MATS/LGMEP
MN 55814

R. Brown
(218) 727-8211 x2580/2589
AV: 825-2580/2589

A36 Dyess AFB
96 AMS/MAAP
TX 79607

L. Snellings
(915) 695-4148 x2534
AV: 461-4148 x2534

A37 Eielson AFB
5010 CAMS/MACP
AK 99702

D. Linnen
(907) 377-4292
AV: 317-372-3115

A38 England AFB
23 CRS/MAACL
LA 71301

B. Schultz
(318) 448-5164/5165
AV: 683-5164/5165

A39 Fairchild AFB
92 AMS/MAAP
WA 99011

F. Browne
(509) 247-7212 x5270/2332
AV: 352-5270/2332

A40 Feltwell England
48 AMS/MAAML
APO NY 09179

M. Glisson
AV: 226-3867/3673

A41 Forbes AFB
190 DSEG/PMEL
KS 66620

R. Eckelberry
(316) 862-1234 x4067
AV: 720-4067

A42 George AFB
35 AMS/MAAL
CA 92392

J. Hopkins
(714) 269-3171
AV: 353-3171/3476

A43 Grand Forks AFB
319 AMS/MAAP
ND 58205

F. Bandy
(701) 594-6641/6642
AV: 362-6641/6642

A44 Grissom AFB
305 AMS/MAAP
IN 46971

G. Dalum
(317) 689-2362/2363
AV: 928-2362/2363

A45 Hahn AB GE
50 CRS/MAACL
APO NY 09109

L. Mullinax
06543-5-7122/7656
AV: 453-7112/7656

A46 Hickam AFB
15 AMS/LGMAMP
HI 96853

M. Iseri
(808) 449-1318
AV: 430-0111

A47 Homestead AFB
31 CRS/MAACL
FL 33030

R. Yager
(305) 257-7845
AV: 791-7845

A48 Incirlik CDI Turkey
TUSLOG DET 192/MAAML
APO NY 09289

C. Houston
AV: 676-3120/6352
| A49 | K I Sawyer AFB  
|     | 410 AMS/MAAP  
|     | MI 49842  
|     | R. Koch  
|     | (906) 346-2117  
|     | AV: 472-2117/2389  |
| A50 | Kadena AB Okinawa  
|     | 18 CRS/MACMP  
|     | APO NY 96239  
|     | W. Phillips  
|     | AV: 630-1110 44215/42556  |
| A51 | Karamursel CDI Turkey  
|     | TUSLOG DET 94/LGMP  
|     | APO NY 09324  
|     | W. Fedorwicz  
|     | AV: 675-3353/3352  |
| A52 | Keesler AFB  
|     | 3380 AMS/MAAP  
|     | MS 39534  
|     | I. Arguelles  
|     | (601) 377-3695  
|     | AV: 868-3695  |
| A53 | Keflavik Aprt Iceland  
|     | 57 FIS/LGMCEP  
|     | APO NY 09571  
|     | G. Coon  
|     | AV: 228-0217-7724/5281  |
| A54 | Kunsan AB Korea  
|     | 8 CRS/MACMP  
|     | APO SF 96264  
|     | O. Eyer  
|     | AV: 274-4101/4591  |
| A55 | Lajes Field Azores  
|     | 1605 CAMS/LGMA  
|     | APO NY 09406  
|     | W. King  
|     | AV: 895-3490 x3273  |
| A56 | Langley AFB  
|     | 1 CRS/MACL  
|     | VA 23665  
|     | W. Taylor  
|     | (804) 764-3758/4696  
|     | AV: 432-3758/4696  |
| A57 | Laughlin AFB  
|     | 47 FMS/MAAP  
|     | TX 78840  
|     | S. Phillips  
|     | (512) 298-5714  
|     | AV: 735-5714  |
| A58 | Little Rock AFB  
|     | 314 AMS/MAAP  
|     | AR 72076  
|     | W. Doyle  
|     | (501) 988-6766/3492  
|     | AV: 731-6766/3492  |
| A59 | Loring AFB  
|     | 42 AMS/MAAP  
|     | ME 04750  
|     | D. Meyers  
|     | (207) 999-6287/7228  
|     | AV: 920-6287/7228  |
| A60 | Lowry AFB  
|     | 3415 CMS/MAABL  
|     | CO 80230  
|     | R. Bado  
|     | (303) 388-3966  
|     | AV: 926-3966  |
| A61 | Luke AFB  
|     | 58 CRS/MACL  
|     | AZ 85309  
|     | D. Dittus  
|     | (602) 935-7411 x2177/2108  
|     | AV: 853-2177/2108  |
| A62 | MacDill AFB  
|     | 56 CRS/MACL  
|     | FL 33608  
|     | D. Alexander  
|     | (813) 830-4254/3706  
|     | AV: 968-4254/3706  |
A63 Mather AFB
323 AMS/MAAP
CA 95655
J. Colosimo
(916) 364-2270
AV: 828-2270

A64 Maxwell AFB
3800 ABW/MAAP
AL 36112
R. Barbaree
(205) 293-7445/6554
AV: 875-7445/6554

A65 McChord AFB
62 AMS/MAAP
WA 98438
G. Baxter
(206) 984-5492/2396
AV: 976-5492/2396

A66 McConnel AFB
384 AMS/MAAP
KS 67221
O. Moos II
(316) 681-6405/5151
AV: 962-6405/5151

A67 McGuire AFB
438 AMS/MAAP
NJ 08641
A. Burke
(609) 724-2939/3441
AV: 440-2939/3441

A68 Misawa AB Japan
6920 ABG/LGM/PMEL
APO SF 96519
L. Dortch
248-1101
AV: 226-3389/5229

A69 Moody AFB
347 CRS/MACL
GA 31601
J. Stewart
(912) 333-4211 x3696
AV: 460-3696/3514

A70 Mt. Home AFB
366 CRS/MACE
ID 83648
W. Wallace
(208) 828-6324
AV: 857-6324/6414

A71 Muniz ANGB PR
156 TFG/LGM
PR 00914
J. Reyes
(809) 791-4115
AV: 860-9142

A72 Myrtle Beach AFB
354 CRS/MACL
SC 29577
J. Wright
(803) 238-7950/7244
AV: 748-7950/7244

A73 Nellis AFB
57 CRS/MACL
NV 89191
M. Miller
(702) 643-1800 x4027/4963
AV: 682-4027/4963

A74 Norton AFB
63 AMS/MAAP
CA 92409
P. Assini
(714) 382-4320/3161
AV: 876-4320/3161

A75 Offutt AFB
55 AMS/MAAP
NB 68113
C. Green
(402) 292-6041/5261
AV: 271-6041/5261

A76 Osan AB Korea
51 CRS/MACMP
APO SF 96570
J. Hopkins
AV: 284-5105/4246
A77 Otis AFB
102 CAMRON SQ/LGM-P
MA 02542

G. Stimus
(617) 968-5125
AV: 557-5125

A78 Pease AFB
509 AMS/MAAP
NH 03801

C. Lutz
(603) 436-0100 x1723/2547
AV: 852-1723/2547

A79 Peterson AFB
46 CAMS/LGMFE
CO 80914

K. Davis
(303) 591-4496/4420
AV: 692-4496/4420

A80 Plattsburgh AFB
380 AMS/MAAP
NY 12903

R. Reed
(518) 565-5270
AV: 689-5273/5274

A81 Pope AFB
317 TAW/MAAP
NC 28308

D. Gordon
(919) 394-4109
AV: 486-4109 x2475

A82 Ramstein AB Germany
66 AMS/MAAML
APO NY 09012

R. Leach
AV: 494-2491 x5525

A83 Randolph AFB
12 FMS/MAA
TX 78148

R. Rangel
(512) 652-3961
AV: 487-3961

A84 Reese AFB
64 FMS/MAAP/19
TX 79489

C. Huenergardt
(806) 885-3480 x2158
AV: 838-3480 x2158

A85 Rickenbacker AFB
301 AMS/MAAP
OH 43217

J. Wright
(614) 492-4324
AV: 950-4324

A86 San Vito Dei Normanni
6719 AB SQ/LGM/PHMEL
IT
APO NY 09240

D. Niemann
AV: 622-1110 x3308

A87 Scott AFB
375 CAMS/MAAP
IL 62225

H. Crooks
(618) 256-3721
AV: 638-3721

A88 Selfridge ANGB
Det 1 HQ MI ANG/MABP
MI 48045

G. Strassburg
(313) 466-5817
AV: 273-5817 x4302

A89 Seymour Johnson AFB
4 CRS/MACL
NC 27531

A. Griffin
(919) 736-0000 x5762/5493
AV: 488-5762/5493
A90  Shaw AFB
     363 CRS/MACL
     SC  29152
     H. Caudle
     (803) 668-8110 x2656/2604
     AV:  965-2656 x2604

A91  Shemya AFB AK
     5073 ABG/PMEL
     APO Seattle  98736
     J. Maier
     (907) 572-3000 x7283
     AV:  572-7283

A92  Sheppard AFB
     3750 CMS/MAAP/234
     TX  76311
     H. Miller
     (817) 851-2693
     AV:  736-2693

A93  Tempelhof Cent Aprt GER
     7350 AB GP/MAAML
     APO NY  09611
     G. Dalldorf
     AV:  411-5367 x5086

A94  Thule AB Greenland
     BMEWS, FSI/FSTP
     APO NY  09023
     D. Roberts
     AV:  9-308

A95  Torrejon AB Spain
     401 TFW/MAAML
     APO NY  09283
     H. Burrell
     AV:  723-6844 x7075

A96  Travis AFB
     60 AMS/MAAP
     CA  94535
     L. Johns
     (707) 438-3244 x3245
     AV:  837-3244 x3245

A97  Tyndall AFB
     4756 AMS/MAAP
     FL  32403
     P. Patterson
     (904) 283-2764
     AV:  970-2764 x2484

A98  Upper Heyford England
     20 AMS/MAAML
     APO NY  09194
     R. Madden
     AV:  263-4949 x4241

A99  USAFA CO
     USAFA/DFIT-ML
     CO  80840
     F. Perry
     (303) 472-4047
     AV:  259-4047 x4137

A100 Vance AFB
     71 FTW/NW-DAM/PMEL
     OK  73701
     L. Watson
     (405) 237-2121 x7250
     AV:  962-7250

A101 Williams AFB
     82 FTW/MAAP
     AZ  85224
     E. Lane
     (602) 988-2611 x6770
     AV:  474-6770

A102 Wurtsmith AFB
     379 AMS/MAAP
     MI  48753
     T. Brown
     (517) 739-6282
     AV:  623-6282

A103 Yokota AB Japan
     610 MASS/LGMAP
     APO SF  96328
     R. Renner
     AV:  255-7156
Type IIC laboratories:

A104 Edwards AFB
6515 AMS/LGMAP
CA 93523
R. Hesselgrave
(805) 277-4291 x3751
AV: 350-4291 x3751

A105 Eglin AFB
3242 AMS/LGMEP
FL 32542
D. Burch
(904) 882-3546 x5631
AV: 872-3546 x5631

A106 Griffis AFB
416 AMS/MAAP
NY 13441
A. Campbell
(315) 330-4807
AV: 987-4807 x4948

A107 Hanscom AFB
3245 ABG/LGK
MA 01731
W. Frost
(617) 861-2661/2662
AV: 478-2661/2662

A108 Holloman AFB
49 CRS/MACL
NM 88330
R. Osborne
(505) 479-6511 x3806
AV: 867-3806

A109 Kirtland AFB
1550 FMS/MAAP
NM 87117
L. Baggette
(505) 264-0011 x4-9939
AV: 964-9939

A110 Patrick AFB
Det 1, SAMTEC/PMEL/P
FL 32925
J. George
(305) 853-9412
AV: 467-9412

A111 Patrick AFB
Det 1, SAMTEC/PMEL/E
FL 32925
R. Schnepf
(305) 494-2504
AV: 854-2504

A112 Vandenberg AFB
SAMTEC/Bldg 1737/PMEL
CA 93437
W. Schone
(805) 866-6595
AV: 276-6595

A113 Wright-Patterson AFB
4950 Test Wing/MADE
OH 45433
B. Lehmenkuler
(513) 257-7707
AV: 787-7707
ARMY

Type I Laboratory:

B1 Army Standards Laboratory
Commander
U.S. Army Missile Materiel Readiness Command
U.S. Army Metrology and Calibration Center
ATTN: DRSMI-MS, Bldg. 5435
Redstone Arsenal, AL 35809

J. C. McKinney, Jr.
(205) 876-7718

Laboratories:

B2 Area Calibration Laboratory, Korea
Commander
Materiel Support Center (Waegan)
ATTN: EANC-MSC-C
APO San Francisco, CA 96460

M. Dayton
TAEGU MIL 265-8531/8518

B3 Army Area Calibration Laboratory
Commander
Letterkenny Army Depot
ATTN: SDSLE-QC
Chambersburg, PA 17201

Donald L. Flory
(717) 263-6012
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B4 Area Calibration Laboratory
Commander
Tobyhanna Army Depot
ATTN: SDSTO-QT
Tobyhanna, PA 18466

Joseph A. Reina
(717) 894-8301 x7594
AV: 247-9594

B5 CRSC, Augsburg
Commander
ATTN: AETSSC-SS-CRSCA
APO NY 09178

J. Vines
FLAK MIL 2582-4690/4699

B6 CRSC, Pirmasens
Commander
ATTN: AERKD-R
APO NY 09138

J. Santana
Pirmasens MIL 2211-8312/7264

B7 CRSC, Schwanheim
Commander
ATTN: AETVSC-ST-CU
APO NY 09057

D. Tolton
Frankfurt MIL 2311-8255/8237

B8 Lexington-Blue Grass Depot Activity
Lexington, KY 40511

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Type I Laboratories:

C1 Western Standards Laboratory
Code 700
Naval Air Rework Facility, North Island
San Diego, CA 92135

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C2 Eastern Standards Laboratory
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Naval Weapon Engineering Support Activity
Washington Navy Yard
Washington, DC 20374

D. Spangenburg
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C3 Commanding Officer
Naval Air Rework Facility
US Naval Air Station
Navy Standards Lab, Type II, 660
Alameda, CA 94501

C. Peeler/L. Noe
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C4 Commanding Officer
Naval Air Rework Facility
Technical Services Section 35220
Bldg. V-88
Norfolk, VA 23511

Wiggins
AV: 690-4288

C5 Commanding Officer Naval Air
Rework Facility, NAS
Type II Standards Lab
Attn: Code 370
Bldg. 3220, Rm. 111
Pensacola, FL 32508

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AV: 922-2277

C6 Naval Plant Representative
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Navy Stds Lab - Type II Code GLSE
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Pomona, CA 91766

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C7 Commanding Officer
US Navy Underwater Systems Center
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Newport, RI 02840

L. Gabriel
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AV: 948-3239/3658

C8 Commander
Pearl Harbor Naval Shipyard
Navy Standards Lab, Type II (Code 916)
Box 400
Pearl Harbor, HI 96860

W. Gould
AV: 430-0111 x471-3208

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C9 Commander
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Charleston, SC 29408

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AV: 794-6303

C10 Commander
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C13 Commanding Officer
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A. Romanello
AV: 236-4284

C14 Commanding Officer
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C15 Commanding General
MCLSB Atlantic
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Albany, GA 31704

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C16 Commanding General
MCLSB Pacific
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Barstow, CA 92311

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AV: 282-2220

C17 Commanding Officer
Naval Air Engineering Center
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FPO New York 09523

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C19 Commanding Officer
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Cherry Point, NC 28533

(919) 466-3318
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Naval Air Station
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Jacksonville, FL 32212

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FPO San Francisco 96637

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C23 Commanding Officer
US Naval Air Station (BERMUDA)
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FPO New York 09560
AV: 938-3460

C24 Commanding Officer
Naval Air Station (CUBI PT. PHIL)
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FPO San Francisco 96654
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AV: 5-3702

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US Naval Air Station, Whidbey Island
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AV: 820-2141

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Naval Air Test Center
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Naval Air Station
Patuxent River, MD 20670
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AV: 356-4231

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US Naval Ordnance Station
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Louisville, KY 40214
B. Rhodes
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AV: 989-5368

C32 Commanding Officer
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FPO San Francisco, 96630
A. Cabrera
AV: 322-1110

C33 Commanding Officer
Naval Ship Repair Facility (SUBIC BAY, PHIL)
Attn: Navy CAL FAC, Code 950C
FPO San Francisco 96651
F. Collins
AV: 844-1101

C34 Commanding Officer
US Naval Ship Repair Facility (YOKOSUKA, JPN)
Attn: Navy CAL FAC Code 370
Box 8
FPO Seattle 98762
Hickling
AV: 234-3140
<table>
<thead>
<tr>
<th>Commanding Officer</th>
<th>Naval Weapons Support Center</th>
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<tbody>
<tr>
<td>US Naval Station (ADAK, AL) Attn: Navy Calibration Lab Annex</td>
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<tr>
<td>P. O. Box 49</td>
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<tr>
<td>FPO Seattle 98791</td>
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<tr>
<td>B. P. Wagner</td>
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<td>AV: 579-3480</td>
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<th>Commanding Officer</th>
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<td>US Naval Station (ROTA, SPAIN) Attn: Navy Calibration Lab</td>
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<tr>
<td>Box 15</td>
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<tr>
<td>FPO New York 09540</td>
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<td>AV: 727-2599 x2588</td>
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<th>Officer in Charge</th>
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<td>Naval Surface Weapons Center</td>
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<td>White Oak Laboratory</td>
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<td>Attn: Calibration Lab</td>
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<tr>
<td>Silver Springs, MD 20910</td>
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<tr>
<td>B. Ludwick</td>
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<tr>
<td>(301) 394-2181</td>
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<th>US Naval Weapons Center</th>
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<tr>
<td>Attn: Code 3683</td>
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<tr>
<td>China Lake, CA 93555</td>
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<tr>
<td>(714) 939-2103</td>
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<td>AV: 245-2103</td>
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<td>Attn: Navy CALAB - QEL</td>
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<tr>
<td>Concord, CA 94520</td>
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<tr>
<td>P. Ferman</td>
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<tr>
<td>(415) 671-5376</td>
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<td>AV: 253-5376</td>
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<tr>
<td>Attn: NAVCALAB, Building C-3</td>
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<tr>
<td>Colts Neck, NJ 07722</td>
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<tr>
<td>C. Campbell</td>
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<tr>
<td>(201) 462-9500 x370</td>
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<td>AV: 449-1370</td>
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<tr>
<td>Attn: Metrology Branch A/314</td>
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<tr>
<td>Quality Evaluation &amp; Eng Lab Dept.</td>
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<tr>
<td>Keyport, WA 98345</td>
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<tr>
<td>D. Eide</td>
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</tr>
<tr>
<td>(206) 396-2279</td>
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<td>AV: 744-2279</td>
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<th>Commander</th>
<th>Norfolk Naval Shipyard</th>
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<td>Attn: ELEC/ELEX Stds Lab</td>
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<tr>
<td>Code 134.3</td>
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<tr>
<td>Portsmouth, VA 23709</td>
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<tr>
<td>G. Waters</td>
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<tr>
<td>(804) 393-5209</td>
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<tr>
<td>AV: 961-5209</td>
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<th>Commanding Officer</th>
<th>Pacific Missile Test Center</th>
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<td>Standards Lab Branch Code 4132</td>
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<tr>
<td>Point Mugu, CA 93042</td>
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<tr>
<td>J. Hilbert</td>
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</tr>
<tr>
<td>(805) 982-7926</td>
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<tr>
<td>AV: 351-7926</td>
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C47 Commander
Philadelphia Naval Shipyard
Attn: Navy CAL FAC, Code 134
Philadelphia, PA 19112

H. Lawyer
(215) 755-3457
AV: 443-3457

C48 Commander
Portsmouth Naval Shipyard
Attn: Navy Calibration Facility, Code 134.2
Bldg. 240
Portsmouth, NH 03801

C. Gustafson
(207) 439-1000 x2317
AV: 684-1640

C49 Commander
Puget Sound Naval Shipyard
Attn: Navy CAL FAC, Code 134.2
Bremerton, WA 98314

J. B. Livingston
(206) 478-2397
AV: 439-2397
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Washington, DC 20545

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Albuquerque, NM 87115

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Kansas City, Missouri 64141

J. F. Hadley
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D2 General Electric Company
Neutron Devices Department
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D3 Los Alamos Scientific Laboratory
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Mail Stop 472
Los Alamos, NM 87545

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(505) 667-7216
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D4 Mason and Hanger-Silas Mason Co.
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Amarillo, TX 79177

R. A. Wilcox
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D5 Monsanto Research Corporation
Mound Facility
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Miamisburg, OH 45342

H. E. Bent
(513) 866-7444, x7403
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D6 Rockwell International
Rocky Flats Plant
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Golden, CO 80401

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D7 Sandia Laboratories
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Organization 8413-1
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Livermore, CA 94550

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D8 Sandia Laboratories
Primary Standards Laboratory
Department 2550
Albuquerque, NM 87185

E. G. Franzak
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P. O. Box 1398
Bartlesville, OK 74003

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D9 Bartlesville Energy Technology Center
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D10 Ames Laboratory
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D13 Fermi National Accelerator Laboratory
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D14 New Brunswick Laboratory
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Field Office:

Grand Junction Office
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Grand Junction, CO 81501
Ben Bowyer
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Laboratories:

D16 Bendix Field Engineering Corporation
P. O. Box 1569
Grand Junction, CO 81501
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FTS: 322-9515

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550 Second Street
Idaho Falls, ID 83401
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D17 EG&G Idaho, Inc.
Idaho National Engineering Laboratory
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M. J. Sexey
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FTS: 583-1684
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D18 Laramie Energy Technology Center
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D20 EG&G Energy Measurements Group
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W. C. Roper, Jr.
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D21 Holmes & Narver, Inc.
OCTD/NTS
Cable/Connector Test Facility
P. O. Box I
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D22 Reynolds Electrical & Engineering Co., Inc.
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Las Vegas, NV 89114

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D23 Goodyear Atomic Corporation
Portsmouth Gaseous Diffusion Plant
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Piketon, OH 45661

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D24 National Lead Company of Ohio
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Oak Ridge, TN  37830

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Richland, WA  99352

Michael Tiernan
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FTS: 444-7285

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D28 Union Carbide
Paducah Gaseous Diffusion Plant
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Paducah, KY  42001

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FTS: 355-6491

D32 Pacific Northwest Laboratories
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Richland, WA  99352

D. M. Fleming
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D29 Union Carbide Corp.,
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K-25 Plant, Materiel Quality
Evaluation Department
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E. Y. Kimmerly
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D33 Westinghouse Hanford Physical and
Electrical Standards Laboratory
P. O. Box 1970
Richland, WA  99352

R. J. Ausere
(509) 942-3456

D30 Union Carbide Corporation
Dimensional Standards Laboratory
Physical and Electrical Standards Laboratory
Y-12 Plant
P. O. Box Y, Building 9723-11A
Oak Ridge, TN  37830

S. W. Lockett
(615) 483-8611 x5063
FTS: 850-5063

Laboratories:

D31 Pittsburgh Energy Technology Center
4800 Forbes Avenue
Pittsburgh, PA  15213

A. G. Sharkey, Jr.
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FTS: 726-2310

D34 Lawrence Berkeley Laboratory
One Cyclotron Road
Berkeley, CA  94720

Lee Wagner
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FTS: 451-5443

D35 Lawrence Livermore Laboratory
University of California
P. O. Box 808
Livermore, CA  94550

Don W. Moon
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Laboratory:
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D36 Rockwell International Energy Systems Group Calibration & Standards 8900 DeSoto Avenue Canoga Park, CA 91304
Gordon A. King (213) 341-1000 x2807 FTS: 791-1120 x2807

D37 Stanford Linear Accelerator Center Stanford University P. O. Box 4349 Stanford, CA 94305
R. B. Neal (415) 854-3300

Field Office:
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N. Stetson (803) 725-2277 FTS: 239-2277

D38 E. I. du Pont de Nemours and Co. Savannah River Laboratory Aiken, SC 29801
R. S. Dorsett (803) 649-6211 x3049 FTS: 239-3049

Field Office:
Bonneville Power Administration P. O. Box 3621 Portland, OR 97208
Marvin Klinger (503) 234-3361 FTS: 429-3361

D39 Bonneville Power Administration Instrumentation and Standards Section P. O. Box 491 Vancouver, WA 98660
Thomas L. Williams (206) 696-0351 x586

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Department of Transportation

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Office of Installation and Logistics M-65
400 7th Street, SW
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E1 Civil Aeromedical Institute
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E2 Standards and Calibration Laboratory
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National Aviation Facilities
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Atlantic City, NJ 08405

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E3 Transportation Test Center
Calibration Lab
Federal Rail Administration
Transportation Test Center
Code RTC-32
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Larry McIrvin/Bill Walters
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Code RSE
Moffett Field, CA 94035
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F2 Hugh L. Dryden Flight Research Center
Aeronautics Research Instruments Lab.
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Edwards, CA 93523
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Quality Support Office
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F4 Jet Propulsion Laboratory
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4800 Oak Grove Drive
Pasadena, CA 91103
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(213) 354-3145
FTS: 792-3145

F5 Lyndon B. Johnson Space Center
Engineering Standards & Calibration Lab.
Houston, TX 77058
Joseph H. Tilghman
(713) 483-2791
FTS: 525-2791

F6 John F. Kennedy Space Center
Calibration Branch
Kennedy Space Center, FL 32899
Thomas J. Broskie
(305) 867-4737
FTS: 823-4737

F7 Langley Research Center
Instrument Research Division
Langley Station
Hampton, VA 23665
H. B. Edwards
(804) 827-3907
FTS: 928-3907

F8 Lewis Research Center
Equipment & Instrument Utilization Branch
21000 Brosksark Road
Cleveland, OH 44135
Basil P. Kluchnik
(216) 433-6918
FTS: 294-6918
F9 George C. Marshall Space Flight Center
Standard & Calibration Branch
Marshall Space Flight Center, AL 35812

G. T. Carpenter
(205) 453-0246
FTS: 872-0246

F10 National Space Technology Laboratories
NSTL Station, MS 39529

Mark Payne
(601) 688-2000
FTS: 494-2000

F11 Wallops Flight Center
Wallops Island, VA 23337

J. B. Aaron
(804) 824-3411 x648
FTS: 928-5648
## IV. LABORATORY CAPABILITIES

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### NAVY

**Navy Standards Laboratories**
- **Type I**
  - (see listing on page 13)
  - C: Electrical-DC/LF
  - N: Electrical-RF/Microwave
  - M: Magnetics, Dielectrics
  - X: Time and Frequency
  - X: Mass, Force, Density
  - X: Dimensional, Optics, Surface
  - X: Acoustics, Sound, Noise, Vibration
  - X: Liquid Gas Flow
  - X: Humidity
  - X: Temperature
  - X: Pressure, Vacuum
  - X: Ionization
  - X: Radiation, Radioactivity
  - X: Medical Instrumentation
  - X: Automated Measuring Equipment
  - X: Material & Products Testing

- **Type II**
  - (see listing on page 13)
  - X: Electrical-DC/LF
  - X: Electrical-RF/Microwave
  - X: Magnetics, Dielectrics
  - X: Time and Frequency
  - X: Mass, Force, Density
  - X: Dimensional, Optics, Surface
  - X: Acoustics, Sound, Noise, Vibration
  - X: Liquid Gas Flow
  - X: Humidity
  - X: Temperature
  - X: Pressure, Vacuum
  - X: Ionization
  - X: Radiation, Radioactivity
  - X: Medical Instrumentation
  - X: Automated Measuring Equipment
  - X: Material & Products Testing

**Navy Calibration Laboratories**
- (see listing on page 13)
  - X: Electrical-DC/LF
  - X: Electrical-RF/Microwave
  - X: Magnetics, Dielectrics
  - X: Time and Frequency
  - X: Mass, Force, Density
  - X: Dimensional, Optics, Surface
  - X: Acoustics, Sound, Noise, Vibration
  - X: Liquid Gas Flow
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  - X: Automated Measuring Equipment
  - X: Material & Products Testing

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N - Is a member of the National Conference of Standards Laboratories
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V. GEOGRAPHICAL LISTING

This section is designed to assist in the location of a laboratory in a given geographical area. First there is a listing of laboratories by states. Each laboratory, listed by name only, is assigned a code. This code can be used to obtain further information about the laboratory by consulting the listings in Section III. The appropriate pages are given as follows:

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A map showing the location of each of the laboratories is given in Figure 1. The codes shown are those described above.
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## LABORATORIES OUTSIDE THE UNITED STATES

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VI. CATEGORY DESCRIPTIONS

In order that the user of this catalog may better interpret the laboratory capabilities as indicated by the categories listed in Section IV, the following examples are given. They are intended only to indicate the type of measurement to be included in each category and are not to be considered an all-inclusive listing.

1. ELECTRICAL - DC/LF
   - DC Voltage
   - DC Voltage ratio
   - DC Current
   - Resistance
   AC Voltage (low freq.)
   AC Current (low freq.)
   Capacitance
   Inductance

2. ELECTRICAL - RF/MICROWAVE
   - AC Voltage
   - AC Voltage ratio
   - AC Current
   - Phase Angle
   - Attenuation
   Capacitance
   Inductance
   Reflection coefficient
   RF power
   Laser power

3. MAGNETICS, DIELECTRICS
   - Magnetic field
   - Magnetic material properties
   - Dielectric material properties

4. TIME & FREQUENCY
   - Time
   - Frequency

5. MASS, FORCE, DENSITY
   - Mass
   - Density
   - Force
   - Torque
   Acceleration
   Shock
   Vibration

6. DIMENSIONAL, OPTICS, SURFACES
   - Length
   - Inside diameter
   - Roundness, concentricity
   - Angle
   - Volume
   - Thread
   - Refractive index
   - Optical lens evaluation
   - Optical alignment
   - Flatness
   - Surface roughness
   - Hardness

7. ACOUSTICS, SOUND, NOISE VIBRATION
   - Acoustics
   - Sound pressure level
   - Microphone sensitivity

8. LIQUID & GAS FLOW
   - Liquid flow
   - Gas flow
   Hydraulics
   Air speed

9. HUMIDITY
   - Relative humidity
   - Absolute humidity

10. TEMPERATURE
    - Temperature
11. PRESSURE, VACUUM
Pressure
Vacuum
Altimetry

12. IONIZING RADIATION, RADIOACTIVITY
Alpha, Beta, and Gamma measurements
Neutron measurements
X-ray exposure

13. MEDICAL INSTRUMENTATION
EKG portable recorders
EKG strip chart recorders
Defibrillators

14. AUTOMATED MEASURING EQUIPMENT
Commercial automated calibration systems

15. MATERIALS & PRODUCTS TESTING
Concrete  Rubber
Building materials  Structures
Paper

16. CHEMICAL ANALYSIS
Spectrophotometry  pH test
Gas chromatography  Water pollution
Spectrohptofluorometry  Air pollution

17. RADIOMETRY AND PHOTOMETRY
Luminous intensity  Solar radiometry
Total irradiance  Optical density
Color temperature
Brightness temperature
VII. OTHER INFORMATION SOURCES

1. National Conference of Standards Laboratories

The National Conference of Standards Laboratories (NCSL) is a continuing, nonprofit, laboratory-oriented organization which promotes cooperative efforts toward solving the common problems faced by standards laboratories in their organization and operation. It was established in 1961 under the sponsorship of the National Bureau of Standards. Its membership consists of academic, scientific, industrial, commercial, and government laboratories concerned with measuring physical quantities, calibrating standards and instruments, and developing standards of practice. It provides liaison with technical societies, trade associations, and educational institutions interested in these activities.

NCSL pursues its goals through joint voluntary action. It holds conferences and workshops, collects and disseminates information about current practices, prepares source material for preferred technical procedures, determines pertinent statistical information related to measurement standards and calibration activities, and helps laboratories to arrange measurement agreement audits.

NCSL prepares and distributes "A Directory of Standards Laboratories" which lists member and other standards laboratories. Each laboratory listing includes the laboratory address, name and telephone number of a point of contact, and an indication of the capabilities of the laboratory. Although the majority listed are private laboratories, also included are some Federal and State government laboratories.

The NCSL directory and membership lists may be obtained from:

NCSL Secretariat
c/o National Bureau of Standards
Attention: L. Kenneth Armstrong
Boulder, CO 80303
(303) 499-1000 x3787

NCSL information is also available from the NBS Office of Measurement Services.

2. Government-Industry Data Exchange Program

The Government-Industry Data Exchange Program (GIDEP) is a cooperative effort to save time and money by making maximum use of existing knowledge. The program allows exchange of technical data essential in the research, design, development, production, and operational phases of the life cycle of systems and equipment.

The program is centrally managed and funded by the Government. Its participating organizations are the United States Army, Navy, Air Force, Marine Corps, Defense Supply Agency, General Services Administration, National Aeronautics and Space Administration, Department of Energy, and the National Security Agency, as well as the Canadian Department of Defence and hundreds of industrial organizations.

Participants in GIDEP have access to the four major data banks listed below. Proper use of these data banks can help improve quality and reliability and reduce costs in the development and manufacture of complex systems and equipment.

- Engineering Data Bank
- Failure Rate Data Bank
- Metrology Data Bank
- Failure Experience Data Bank

Participation requirements or additional information about GIDEP may be obtained from:

Director
GIDEP Operations Center
Corona, CA 91720
(714) 736-4677
INFORMATION FORM

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☐ Please add my name to the mailing list to receive future updated issues of the "Catalog of Federal Metrology and Calibration Capabilities".

☐ The following information should be included and/or corrected in future issues:

1. Additional laboratories to be included:

2. Information to be corrected:

3. Additional types of information about the laboratories which would be useful:

☐ The "Catalog of Federal Metrology and Calibration Capabilities" has been useful to me in the following ways:


48 179
This publication lists Federal laboratories involved in metrology and calibration. Included is the name of a person at each laboratory to contact for more information as well as the laboratory telephone number and address. The capabilities of each laboratory are indicated in a tabular listing by agency. To provide geographical distribution, the laboratories are listed by States. In addition, the laboratories are shown on a map by coded number. Other references are described.
The expanded Journal of Research of the National Bureau of Standards reports NBS research and development in those disciplines of the physical and engineering sciences in which the Bureau is active. These include physics, chemistry, engineering, mathematics, and computer sciences. Papers cover a broad range of subjects, with major emphasis on measurement methodology, and the basic technology underlying standardization. Also included from time to time are survey articles on topics closely related to the Bureau's technical and scientific programs. As a special service to subscribers, each issue contains complete citations to all recent NBS publications in NBS and non-NBS media. Issued six times a year. Annual subscription: domestic $17.00; foreign $21.25. Single copy, $3.00 domestic; $3.75 foreign.

Note: The Journal was formerly published in two sections: Section A "Physics and Chemistry" and Section B "Mathematical Sciences."

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Note: The Journal was formerly published in two sections: Section A “Physics and Chemistry” and Section B “Mathematical Sciences.”

DIMENSIONS/NBS

This monthly magazine is published to inform scientists, engineers, businessmen, industry, teachers, students, and consumers of the latest advances in science and technology, with primary emphasis on the work at NBS. The magazine highlights and reviews such issues as energy research, fire protection, building technology, metric conversion, pollution abatement, health and safety, and consumer product performance. In addition, it reports the results of Bureau programs in measurement standards and techniques, properties of matter and materials, engineering standards and services, instrumentation, and automatic data processing.

Annual subscription: Domestic, $11.00; Foreign $13.75

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

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

National Standard Reference Data Series—Provides quantitative data on the physical and chemical properties of materials, compiled from the world’s literature and critically evaluated. Developed under a world-wide program coordinated by NBS. Program under authority of National Standard Data Act (Public Law 90-356).

NOTE: At present the principal publication outlet for these data is the Journal of Physical and Chemical Reference Data (JPCRD) published quarterly for NBS by the American Chemical Society (ACS) and the American Institute of Physics (AIP). Subscriptions, reprints, and supplements available from ACS, 1155 Sixteenth St. N.W., Wash., D.C. 20036.

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

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

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

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The following current-awareness and literature-survey bibliographies are issued periodically by the Bureau:

Cryogenic Data Center Current Awareness Service. A literature survey issued biweekly. Annual subscription: Domestic, $25.00; Foreign, $30.00.

