

United States
Environmental Protection
Agency

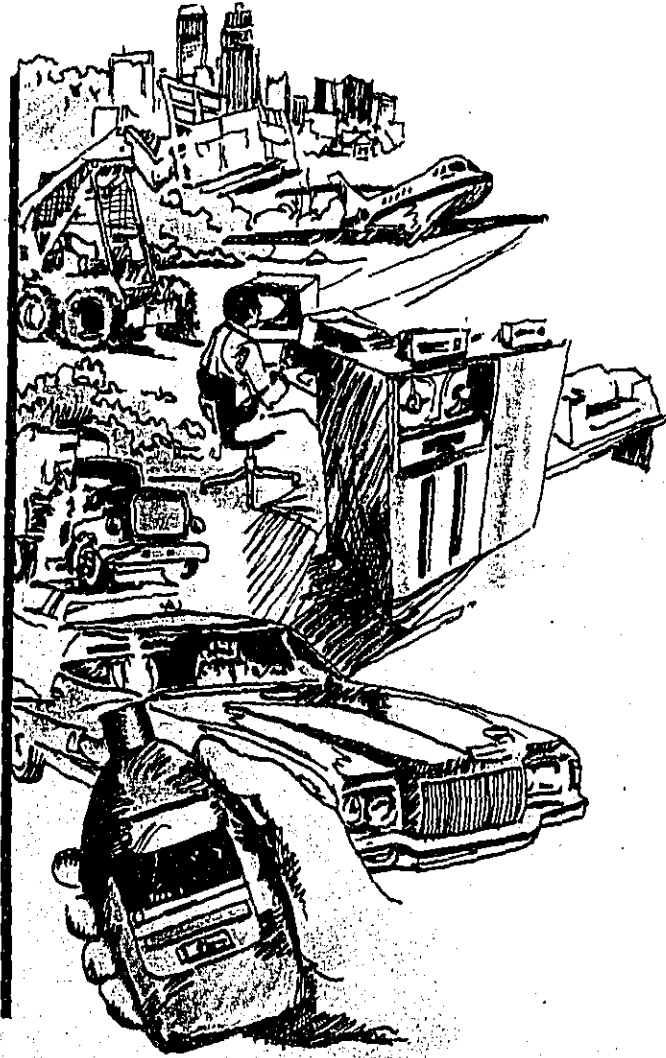
Office of
Noise Abatement
And Control
Washington, D.C. 20460

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Noise



Federal Laboratories and Research Facilities with Noise Capabilities



A Directory

EPA 550/9-79-312

**FEDERAL LABORATORIES
AND RESEARCH FACILITIES
WITH NOISE CAPABILITIES**

July 1979

**U.S. Environmental Protection Agency
Office of Noise Abatement and Control
Washington, D.C. 20460**

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INTRODUCTION

PURPOSE AND SCOPE

This document inventories various Federal laboratories and research facilities having noise research or noise testing capabilities. It is intended to furnish government officials and others basic information constituting a starting point in making further inquiries. It is not a comprehensive compendium affording in-depth perspectives of activity.

BACKGROUND

The directory is based on a telephone survey (Appendix B) of various Federal laboratories and/or research facilities having noise capabilities. It represents a joint effort between the EPA and the U.S. Navy. The actual questionnaire was developed and data was collected by the Naval Aircraft Environmental Support Office, San Diego, California.

The Environmental Protection Agency is publishing it pursuant to its responsibilities under the Noise Control Act of 1972 (PL 92-574) and the Quiet Communities Act of 1978 (PL 95-609).

HOW TO USE THIS DIRECTORY

In order to accommodate the needs of various users, the directory contains:

- o A basic inventory Introduction

This identifies the laboratories considered in the directory. It gives the address, and chief noise mission of each laboratory as well as the name and telephone number of whom to contact at the laboratory.

- o An organizational index Section 1

This index identifies the area and level of noise efforts at each of the laboratories inventoried.

- o A noise activities index Section 2
Identifies noise activity areas, categories of activities, and which facilities are performing them.
- o A noise instrumentation and special facility index Section 3
Identifies equipment and research facilities associated with each laboratory.
- o A geographical index Section 4
This index contains a map of the standard Federal regions and locates on the map each Federal laboratory with reported noise capabilities.

COMMENTS FROM READERS

It is intended that this directory will be updated periodically. Readers wishing to comment may use the form in Appendix C. All comments are welcome and should be sent to:

Directory of Federal Laboratories With Noise Capabilities
Office of Noise Abatement and Control
Environmental Protection Agency
Washington, D.C. 20460
(Telephone: (703) 557-8292)

Inventory of Federal Laboratories and Research Facilities

DEPARTMENT OF AGRICULTURE

Forest Service
Equipment Development Center
444 E. Bonita
San Dimas, CA 91773

Contact: Robin Harrison
FTS 793-8237
(714) 599-1267

Noise Mission: Technical support to Forest Service noise reduction and hearing conservation program.

DEPARTMENT OF COMMERCE

National Bureau of Standards
Washington, D.C. 20234

Contact: S. L. Yann
(301) 921-3646

Noise Mission: Acoustical Engineering, environmental noise, building acoustics and community noise

National Oceanic and Atmospheric Administration
Wave Propagation Laboratory
3100 Maine Street
Boulder, CO 80302

Contact: T. Brown
FTS 323-6436
(303) 449-1000
ext. 6436

Noise Mission: Research on Atmospheric and ocean properties using sound.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE

U.S. Air Force

Air Force Aerospace Medical Research
Laboratory
Wright-Patterson Air Force Base
Fairborn, OH 45433

o Bioacoustics Branch

Contact: C. Nixon
A/V 785-3607
(513) 255-3607

Noise Mission: Conducts noise effects research in support of noise.

o Biodynamic Branch

Contact: John Cole
A/V 785-3675
(513) 255-3675

Noise Mission: Develop procedures and technology to predict crew/
community noise.

Air Force Flight Dynamics Laboratory
Wright-Patterson Air Force Base
Fairborn, OH 45433

Contact: D. L. Smith
A/V 785-5662
(513) 255-4279

Noise Mission: Acoustics and sonic fatigue.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

Air Force School of Aerospace Medicine
Brooks Air Force Base
TX 78235

Contact: D. Gasaway
A/V 240-2178

Noise Mission: Review and analyze audiograms.

U.S. Army

Army Aero Medical Research Laboratory
P.O. Box 577, SGRD-UAB
Bioacoustics Division
Fort Rucker, AL 36362

Contact: R. Camp
A/V 558-4408
(205) 255-4408

Noise Mission: Air crew noise peculiar to Army.

Army Audiology and Speech Center
Walter Reed Army Medical Center
Building 156, Forest Glen Section
Washington, D.C. 20012

Contact: J. Hans
A/V 241-5131
(202) 427-5131

Noise Mission: Clinical audiology, hearing conservation, auditory research.

Army Ballistics Research Laboratory
Aberdeen Proving Ground
Aberdeen, MD 21005

Contact: A. LaGrange
A/V 283-2030
(301) 278-2030

Noise Mission: Acoustic pattern recognition.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

Army Materials Systems Analysis
Aberdeen Proving Grounds
Aberdeen, MD 21005

Contact: B. Cummings
A/V 283-2432
(301) 278-2432

Noise Mission: Prediction of blast noise.

Army Mobility Equipment Research and
Development Center
Fort Belvoir, VA 22060

Contact: J. Hoeschen
A/V 354-1836
(703) 664-1836

Noise Mission: Noise consideration during equipment design.

Army Standards Laboratory
Army Missile Command
Redstone Arsenal, ALA 35809

Contact: R. Smock
A/V 746-2891
(205) 876-2891

Noise Mission: Maintain Army calibration standard.

Army Tank-Automotive Command
Warren, MI 48090

Contact: D. Reese
A/V 273-1653
(313) 573-1653

Noise Mission: Measure and analyze combat vehicle noise.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

U.S. Navy

Naval Aerospace Medical Research Laboratory
Acoustical Sciences Division
Pensacola, FL 32508

Contact: R. Robertson
A/V 922-4457
FTS 948-4451
(904) 452-4457

Noise Mission: Evaluate hearing conservation/performance.

Naval Aircraft Environmental Support Office
NAVAIRE WORKFAC North Island
San Diego, CA 92135

Contact: Ray Glass
A/V 951-5032
(714) 437-5032

Noise Mission: Evaluation of noise at Navy/Marine Corps activities.

Naval Air Development Center
Warminster, PA 18974

o Aeroelectronic Technology Department

Contact: E. Cotilla
A/V 297-3127
(215) 441-3127

Noise Mission: Underwater acoustic detection and processing.

o Air Vehicle Technology Department

Contact: W. C. Hallow
A/V 297-2475
(215) 441-2475/2836

Noise Mission: Environmental Noise.

o Crew Systems Department

Contact: D. DiSimone
A/V 297-2188
(215) 441-2187

Noise Mission: Hearing protection/environmental noise.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

Naval Air Engineering Center
Naval Air Station
Lakehurst, NJ 08733

Contact: D. Croce
A/V 624-2706
(201) 323-7668

Noise Mission: Ground support equipment, propulsion noise.

Naval Air Propulsion Test Center
Lakehurst, NJ 08733

Contact: R. Obernodorfer
A/V 234-1770
(609) 882-1414

Noise Mission: Navy engine test facility.

Naval Air Test Center
Patuxent River, MD 20670

Contact: C. Abell
A/V 356-4673
(301) 863-4673

Noise Mission: Evaluation of aircraft system noise.

David Taylor Naval Ship Research and
Development Center
Annapolis, MD 21404

Contact: L. J. Argiro
A/V 281-2649
(301) 267-2840

Noise Mission: Reduce machinery noise on submarines, surface ships and
combatant craft.

David Taylor Naval Ship Research and
Development Center
Bethesda, MD 20084

Contact: R. Biancardi
A/V 281-1317
(202) 227-1317

Noise Mission: Measure and analyze ship noise.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

Navy Environmental Health Center
Cincinnati, OH 45220

Contact: A. Johnson
A/V 989-3863
(513) 684-3863

Noise Mission: Hearing conservation.

Naval Health Research Center
San Diego, CA 92132

Contact: R. Townshend
(714) 225-6434

Noise Mission: Effects of noise on sleep and performance.

Naval Ocean Systems Center
San Diego, CA 92132

- Acoustics, Behavior, and Communications Group

Contact: R. S. Gales
A/V 933-7255
(714) 225-7255

Noise Mission: Research and development, noise control, and noise effects.

- Speech Systems and Interference Branch

Contact: E. Schiller
A/V 933-7372
(714) 225-7372

Noise Mission: Developmental test and evaluation.

Naval Pacific Missile Test Center
Point Mugu, CA 93942

Contact: D. Robertson
A/V 351-8871/8304
(805) 982-8871/8304

Noise Mission: Developmental test and evaluation.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

Navy Research and Development Center
San Diego, CA 92132

Contact: Dr. Fred Muckler
A/V 933-0500
(714) 225-6617

Noise Mission: Measure critical task performance in noisy shipboard environment.

Naval Research Laboratory
Acoustics Division
Washington, D.C. 20375

Contact: Dr. Munson
A/V 297-3392
(202) 767-3392

Noise Mission: Underwater acoustics/undersea surveillance.

Naval Research Laboratory
Underwater Sound Reference Division
Orlando, FL 32806

Contact: J. Blue
FTS 820-6248
(305) 859-5120

Noise Mission: Underwater transducer design and calibration.

Naval Ship Engineering Center
James Polk Building, National Center
2521 Jefferson Davis Highway
Arlington, VA 20362

Contact: K. G. Hartman
A/V 222-0323
(202) 692-0323

Noise Mission: Ship noise and vibration control.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

Naval Submarine Medical Research Laboratory
Auditory Division
Box 900
Naval Submarine Base, New London
Groton, CT 06340

Contact: J. Harris
A/V 241-3201
(203) 449-3201

Noise Mission: Perform hearing research in support of the submarine force/
diving community:

Naval Surface Weapons Center
Silver Spring, MD 20910

Contact: D. Bradley
A/V 290-2470
(202) 394-2470

Noise Mission: Underwater acoustics research and development.

Naval Surface Weapons Center
Dahlgren Laboratory
Dahlgren, VA 22448

Contact: L. L. Pater
A/V 249-7342
(703) 663-7342

Noise Mission: Surface weapons development.

Naval Underwater Systems Center
New London, CT 06320

Contact: G. Connolly
A/V 636-2908
(203) 442-0771

Noise Mission: Underwater sonar.

Inventory of Federal Laboratories

DEPARTMENT OF DEFENSE - Continued

Navy Weapons Center
China Lake, CA 93551

Contact: T. Dodson
A/V 245-3630
(714) 939-3630

Noise Mission: Weapons acoustics.

Naval Weapons Support Center
Crane, IN 47522

o Aircraft Equipment Division

Contact: E. Melton
A/V 482-1299
(812) 854-1299

Noise Mission: Aircraft equipment control.

o ASW and Aircraft Equipment Division

Contact: R. Behme
A/V 482-1422

Noise Mission: Hydroacoustic measurement facility.

o Fleet Logistics Support Department

Contact: L. Will
(812) 854-1810

Noise Mission: Sound testing of motor generator sets.

o Medical Department

Contact: J. Fitch
A/V 482-1847
(812) 854-1847

Noise Mission: Occupational health relating to noise.

Inventory of Federal Laboratories

DEPARTMENT OF ENERGY

Lawrence Berkeley Laboratory
#1 Cyclotron Road
Berkeley, CA

Contact: Jensen Young
(415) 486-5251

Noise Mission: Investigation of man and materials in energy research.

Lawrence Livermore Laboratory
P.O. Box 808
Livermore, CA 94550

Contact: Walt Eneidi
FTS 532-5145
(415) 422-5154

Noise Mission: Noise surveys for hearing loss problems.

Oak Ridge National Laboratory
P.O. Box X
Oak Ridge, TN 37830

Contact: W. E. Porter
FTS 850-1634
(615) 483-8611
ext. 3-1634

Noise Mission: Reduce employee exposure to workplace noise.

ENVIRONMENTAL PROTECTION AGENCY

Noise Enforcement Facility
Sandusky, OH 44870

Contact: Robert P. Kozar
FTS 627-1628
(419) 627-8945

Noise Mission: Acoustic testing of products.

Inventory of Federal Laboratories

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE

Public Health Service
Center for Disease Control
National Institute for Occupational
Safety and Health (NIOSH)
4676 Columbia Parkway
Cincinnati, OH 45226

Contact: W. N. McKinney, Jr.
FTS 684-4442
(513) 684-4442

Noise Mission: Reduce occupational noise.

Public Health Service
Center for Disease Control
National Institute for Occupational
Safety and Health (NIOSH)
Appalachian Laboratory for Occupational
Safety and Health (ALOSH)
Testing and Certification, Safety Division
944 Chestnut Ridge Road
Morgantown, W. VA 26505

Contact: N. Blaskovitch, Jr.
FTS 923-7331
(304) 599-7331

Noise Mission: Evaluate noise instrumentation and hearing protection for certification.

Public Health Service
National Institutes of Health
Bethesda, MD 20852

Contact: E. Elkins
(301) 496-5061

Noise Mission: Medical aspects of noise.

Inventory of Federal Laboratories

DEPARTMENT OF HEALTH, EDUCATION AND WELFARE - Continued

Public Health Service
National Institutes of Health
National Institute of Environmental Health
Sciences
Laboratory of Environmental Physics
P.O. Box 12233
Research Triangle Park, NC 27709

Contact: R. Cook
FTS 629-3247
(919) 541-3247

Noise Mission: Research on effects of noise on the hearing.

Inventory of Federal Laboratories

DEPARTMENT OF THE INTERIOR

Bureau of Mines
Noise Research Laboratory
4800 Forbes Avenue
Pittsburgh, PA 15213

Contact: A. Burkes
FTS 726-2762
(412) 892-2400

Noise Mission: Noise control of mining equipment.

Bureau of Mines
Pittsburgh Mining and Safety Research
Center
Pittsburgh, PA 15213

Contact: K. Sachs
FTS 726-2641
(412) 892-2400
ext. 641

Noise Mission: Industrial hazards and communication.

Bureau of Mines
Rolla Metallurgy Research Center
P.O. Box 280
Rolla, MO 65401

Contact: A. Visnapoo
FTS 276-9210
(314) 364-3169

Noise Mission: Noise and vibration abatement.

Bureau of Mines
Mine Safety and Health Administration
Noise Branch
4800 Forbes Avenue
Pittsburgh, PA 15213

Contact: D. A. Giardino
FTS 721-8620
(412) 621-4500
ext. 620

Noise Mission: Technical support to inspection force with regard to noise control techniques.

Inventory of Federal Laboratories

DEPARTMENT OF THE INTERIOR - Continued

Bureau of Mines
Mining Enforcement and Safety
Technical Support - Coal Equipment Group
Pittsburgh, PA

Contact: D. A. Giardino
FTS 721-8620
(412) 621-4500
ext. 622

Noise Mission: Noise compliance and analysis.

Bureau of Mines
Mining Enforcement and Safety
Technical Support - Non-Coal Equipment Group
Denver, CO 80225

Contact: T. Muldune
(303) 234-4824

Noise Mission: Noise compliance.

Inventory of Federal Laboratories

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA Ames Research Center
Moffett Field, CA 94035

Contact: W. Altye
(415) 965-6675

Noise Mission: Aerodynamic and non-audiotry effects of noise investigation.

NASA Goddard Space Flight Center
Greenbelt, MD 20771

Contact: L. Cook
(301) 982-6305

Noise Mission: Vibration and acoustic testing of space systems.

NASA Jet Propulsion Laboratory
California Institute of Technology
Pasadena, CA 91125

Contact: P. Massier
FTS 792-3549
(213) 354-3549

Noise Mission: Aircraft noise research and noise reduction.

NASA Johnson Space Center
Houston, TX 77058

Contact: A. Gist
FTS 525-3007
(713) 483-3007

Noise Mission: Structural and communications tests.

NASA Langley Research Center
Langley, VA 23665

Contact: H. Hubbard
FTS 928-1110
(804) 827-3577

Noise Mission: Lead center for acoustics control of aircraft noise; psycho-acoustics research.

Inventory of Federal Laboratories

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION - Continued

NASA Lewis Research Center
21000 Brookpark Road
Cleveland, OH 44135

Contact: R. W. Schroeder
(216) 433-4000
ext. 6654

Noise Mission: Measurement of aircraft noise.

NASA Marshall Space Flight Center
Huntsville, AL 35812

Contact: N. Allan
(205) 453-1320

Noise Mission: Acoustic testing.

NASA Wallops Flight Center
Wallops Island, VA 23337

Contact: Director of
Operations
FTS 928-5711
(804) 824-3411

Noise Mission: Measurement of aircraft noise.

Inventory of Federal Laboratories

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration
Aeronautical Center Research Laboratory
Oklahoma City, OK 73125

Contact: J. Tobias
FTS 732-4846
(405) 686-4846

Noise Mission: Medical certification of pilots/industrial hygiene.

Federal Aviation Administration
National Aviation Facilities Experimental Center
Atlantic City, NJ 08405

Contact: R. Faith
FTS 346-3641
(609) 641-8200

Noise Mission: Research and development testing for FAA.

Federal Railroad Administration
Transportation Test Center
Pueblo, CO 81001

Contact: Glenn A. Reiff
FTS 326-9502
(303) 545-5660

Noise Mission: Measure worker exposure to noise.

Transportation Systems Center
55 Broadway
Cambridge, MA

Contact: R. Giangrande
FTS 837-2486
(617) 494-2486

Noise Mission: Transportation systems research, related to noise reduction.

SECTION 1 ORGANIZATIONAL INDEX

This section is designed to aid the reader in determining the area and level of noise efforts at each of the laboratories inventoried. For each laboratory and research facility, it is indicated whether, in a given area (e.g. air transportation) the facility reported having either 1) a program or 2) individual projects only or/both a program and individual projects (not necessarily related to the program).

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS			
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION	HEARING CONCERN: TRACTION AND ENGI. SERVICES	HEARING CONTROL	HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Agriculture Forest Service Equipment Development Center, CA		B	I	B	B	I	I		I			
Department of Commerce National Bureau of Standards, DC	P	P	B	P	B	B	B			B	B	
National Oceanic and Atmospheric Administration, Wave Propagation Laboratory, CO										B		

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPATIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION	HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense U.S. Air Force										
Aerospace Medical Research Laboratory, OH										
• Bioscoustics Branch	B			B	B		I		I	
• Biodynamics Branch	B			B	P			B	B	
Air Force Flight Dynamics Laboratory, OH	B			I				P	P	
Air Force School of Aerospace Medicine, TX				P						

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPATIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION	HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense U.S. Army										
Army Aero Medical Research Laboratory, AL	P		P		P			P		
Army Audiology and Speech Center, DC				P	P	P	P			
Army Ballistics Research Laboratory, MD	I		I						I	I
Army Construction Engineering Research Laboratory, IL	B	I	I	I	B				P	P
Army Electronics Command, NJ	P				B	B	P			P
Army Environmental Hygiene Agency Biocoustics, MD	B	B	P		P	P	P	I	I	B
Army Human Engineering Laboratory, MD	P	P	P		P	P	P			
Army Materials Systems Analysis, MD	P	P								P
Army Mobility Equipment Research and Development Center, VA		I		I	I					

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPA- TIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION
Department of Defense U.S. Army - Continued										
Army Standards Laboratory, AL	P	P	P	P	P				P	P
Army Tank-Automotive Command, MI		P								

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPA- TIONAL NOISE		HEALTH EFFECTS		MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION	HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of Defense										
U.S. Navy										
Naval Aerospace Medical Research Laboratory (Acoustical Science Division), FL	P	P	P		B	P	P		P	P
Aircraft Environmental Support Office, CA	B	P	I	I	P				P	P
Naval Air Development Center, PA										
• Aeroelectronic Technology	I	I	I		I					
• Air Vehicle Technology	I	I	I		I					
• Crew Systems Department		I			I					
Naval Air Engineering Center, NJ	P		P		P					
Naval Air Propulsion Test Center, NJ	P		P		P		P		P	P
Naval Air Test Center, MD	I		I		I					
David Taylor Naval Ship Research and Development Center, Annapolis, MD		B	B		B		B		B	B

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPA- TIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION
Department of Defense U.S. Navy - Continued										
David Taylor Naval Ship Research and Development Center, Bethesda, MD		P	B			P	B		P	P
Naval Environmental Health Center, OH						P				
Naval Health Research Center, CA						I				
Naval Oceans Systems Center, CA										
• Acoustics, Behavior, and Communications Group	B		P			P	I	I	I	P
• Speech Systems and Interference Branch			I			I				
Pacific Missile Test Center, CA	I	I				B				
Navy Research and Develop- ment Center, CA			P				P			
Naval Research Laboratory Acoustics Division, DC									P	P
Naval Research Laboratory Underwater Sound Reference Division, FL									P	P

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPA- TIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION
Department of Defense U.S. Navy - Continued										
Naval Weapons Support Center, IN										
• Aircraft Equipment Division	I									B
• ASW and Aircraft Equipment Division										B
• Fleet Logistics Support Department			I	I			I			
• Medical Department			P	P	P	P				
Naval Ship Engineering Center, VA			B	B			P		P	P
Naval Submarine Medical Laboratory, CT				B	B	B	P	B	P	
Naval Surface Weapons Center, MD							P		P	P
Naval Surface Weapons Center, VA	B	B	B	P	P	P			P	
Naval Underwater Systems Center, CT							P		P	P
Navy Weapons Center, CA	P		I							

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPATIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION
Department of Energy										
Lawrence Berkeley Laboratory, CA	I		I						I	I
Lawrence Livermore Laboratory, CA		I	P	P	P	P				
Oak Ridge National Laboratory, Union Carbide Corporation, TN			P	P	P					

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPATIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION
Environmental Protection Agency Noise Enforcement Facility, OH		P	P	P						
Department of Health, Education and Welfare, Public Health Service National Institute of Occupational Safety and Health (NOISH), OH			P		P			P		P
National Institute of Occupational Safety and Health Appalachian Laboratory for Occupational Safety and Health (ALOSH)/Testing and Certification, Safety Division, VA			P	P	P	P			P	P
National Institute of Health, MD						I				
National Institute of Environmental Health Sciences, NC					P			P		

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPA- TIONAL NOISE	HEALTH EFFECTS	MISCELLANEOUS			
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION						
					HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING
Department of the Interior										
U.S. Bureau of Mines, Noise Research Laboratory, PA				P					P	
U.S. Bureau of Mines, Pittsburgh Mining and Safety Research Center, PA			P	P	P				P	
U.S. Bureau of Mines, Rolla Metallurgy Research Center, MO			P		P					
Mining Safety and Health Administration, PA					P	I			P	P
Mining Enforcement and Safety Technical Support—Coal Equipment, PA			P	P	P				P	
Mining Enforcement and Safety Technical Support—Non-Coal Equipment, CO	P				P					

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPA- TIONAL NOISE	HEALTH EFFECTS			MISCELLANEOUS	
	AIR TRANSPORTATION	SURFACE TRANSPORTATION	MACHINERY	CONSTRUCTION		HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION
National Aeronautics and Space Administration										
Ames Research Center, CA	P		P		P				P	P
Goddard Space Flight Center, MD	P		P						P	P
Jet Propulsion Laboratory, California Institute of Technology, CA	P								P	P
Johnson Space Center, TX			B		I				I	I
Langley Research Center, VA	P	P	P		P				P	P
Lewis Research Center, OH	B	I	I	I						
Marshall Space Flight Center, AL			P						P	
Wallops Flight Center, VA	I									

P = reported continuing program
 I = reported individual projects
 B = reported both programs and projects

Organizational Index

AGENCY/ LABORATORY	ENVIRONMENTAL NOISE				OCCUPA- TIONAL NOISE	HEALTH EFFECTS		MISCELLANEOUS		
	AIR TRANSPORTATION SURFACE	TRANSPORTATION MACHINERY	CONSTRUCTION			HEARING LOSS	NON-AUDITORY	UNDERWATER	ANIMAL RESPONSE	SPECIAL INSTRUMENTATION
Department of Transportation Federal Aviation Adminis- tration, Aeronautical Center Research Laboratory, OK				B		I				
Federal Aviation Adminis- tration, National Aviation Facilities Experimental Center, NJ	I									
Federal Railroad Adminis- tration, Transportation Test Center, CO										
Transportation Systems Center, MA				P		P				
	P	P	P	P						

P = reported continuing program
I = reported individual projects
B = reported both programs and projects

SECTION 2 NOISE ACTIVITIES INDEX

This section is designed to aid the reader interested in particular noise areas and activities in identifying what Federal laboratories are performing work in them. For example, if the reader wishes to know what laboratories are performing work in environmental air transportation noise, and subcategories thereof, these are listed on page II-2.

For purposes of this guide, noise activities are categorized within each area of effort as follows. Each category is broken down into subcategories on the pages following.

A. Environmental Noise

1. Air Transportation
2. Surface Transportation
3. Machinery Noise
4. Construction Noise

B. Occupational Noise

1. Engineering Control of Sources
2. Administrative Control of Noise
3. Hearing Protective Devices
4. Audiometry

C. Health Effects Research

1. Psychoacoustics
2. Hearing Loss

D. Miscellaneous

1. Underwater Noise
2. Animal Response
3. Acoustic Data Processing
4. Special Instrumentation

Noise Activities Index

A-1. ENVIRONMENTAL NOISE/AIR TRANSPORTATION

AGENCY/LABORATORY	AIRCRAFT NOISE PROPAGATION	AIRCRAFT NOISE MONITORING	AIRCRAFT NOISE MEASUREMENT	AIRCRAFT NOISE TECHNIQUES	AIRCRAFT NOISE MODELING	SONIC BOOM
DEPARTMENT OF COMMERCE National Bureau of Standards, Washington, D.C.				P		
DEPARTMENT OF DEFENSE						
Air Force						
• Aerospace Medical Research Laboratory, OH						
• Bioacoustic Branch						
• Biodynamics Branch						
• Flight Dynamics Laboratory, OH	P	I	P	P	P	P
• Flight Dynamics Laboratory, OH			P	P	P	
Army						
• Aero Medical Research Laboratory, AL				P		
• Ballistics Research Laboratory, MD				I		
• Construction Engineering Research Laboratory, IL	P	P	P	P	I	I
• Electronics Command, NJ				P		
• Environmental Hygiene Agency, MD	I	P	I		P	
• Human Engineering Laboratory, MD				P	P	
• Materials Systems Analysis, MD				P		
• Standards Laboratory, AL				P		
Navy						
• Aerospace Medical Research Laboratory, FL				P		
• Aircraft Environmental Support Office, CA	I	P	P	P	P	I
• Air Development Center, Air Vehicle Technology Department, PA				I		
• Air Engineering Center, NJ				P		
• Air Propulsion Test Center, NJ	P	P	P	P	P	
• Air Test Center, MD				I		
• Acoustics, Behavior and Communications Group, CA	P	P	P	P		I
• Pacific Missile Test Center, CA	I					
• Surface Weapons Center, Dahlgren Laboratory, VA		P	P	P	P	
• Weapons Center, CA		P	P	P		
• Weapons Support Center, Aircraft Equipment Division, IN		I				

P = reported continuing program
I = reported individual projects

Noise Activities Index

A-1. ENVIRONMENTAL NOISE/AIR TRANSPORTATION - Continued

AGENCY/LABORATORY	AIRCRAFT NOISE PROPAGATION	AIRCRAFT NOISE MONITORING	AIRCRAFT NOISE MEASUREMENT	NOISE MEASUREMENT TECHNIQUES	AIRCRAFT NOISE MODELING	SONIC BOOM
DEPARTMENT OF ENERGY <ul style="list-style-type: none"> • Lawrence Berkeley Laboratory, CA 				I		
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION) <ul style="list-style-type: none"> • Ames Research Center, CA • Goddard Space Flight Center, MD • Jet Propulsion Laboratory, CA • Langley Research Center, VA • Lewis Research Center, OH • Wallops Flight Center, VA 	P P P P	P P P P P	P P P P P P	P P P P P P	P P P P P P	
DEPARTMENT OF TRANSPORTATION Federal Aviation Administration <ul style="list-style-type: none"> • National Aviation Facilities Experiment Center, NJ 			P			
Transportation Systems Center, MA	P	P	P	P	P	

P = reported continuing program
 I = reported individual projects

Noise Activities Index

A-2. ENVIRONMENTAL NOISE/SURFACE TRANSPORTATION - Continued

AGENCY/LABORATORY	AUTO NOISE	TRUCK NOISE	RAILROAD NOISE	MEASUREMENT TECHNIQUES	NOISE MODELING	ADDITIONAL CATEGORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION) Langley Research Center, VA Lewis Research Center, OH	P	P		P I		
DEPARTMENT OF TRANSPORTATION Transportation Systems Center, MA	P	P	P	P	P	

P = reported continuing program
 I = reported individual projects

Noise Activities Index

A-3. ENVIRONMENTAL NOISE/MACHINERY NOISE - Continued

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	BEARING NOISE	FAN NOISE	GEAR NOISE	VIBRATION	IMPULSE NOISE	ADDITIONAL CATE- GORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
Navy (Continued) <ul style="list-style-type: none"> • Weapons Center, CA • Weapons Support Center, IN • Fleet Logistics Support Department • Medical Department 	P	I	I	I		I	P
DEPARTMENT OF ENERGY <ul style="list-style-type: none"> Lawrence Berkeley Laboratory, CA Lawrence Livermore Laboratory, CA Oak Ridge National Laboratory, TN 	P				P	P	P
ENVIRONMENTAL PROTECTION AGENCY <ul style="list-style-type: none"> Noise Enforcement Facility, OH 	P		P	P			
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE <ul style="list-style-type: none"> Center for Disease Control <ul style="list-style-type: none"> • National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. Va. 	P	P	P	P	P	P	P
DEPARTMENT OF THE INTERIOR <ul style="list-style-type: none"> Bureau of Mines <ul style="list-style-type: none"> • Pittsburgh Mining and Safety Research Center, PA • Rolla Metallurgy Research Center, MD Mining Enforcement and Safety <ul style="list-style-type: none"> • Technical Support - Coal Equipment, PA • Technical Support - Non-Coal Equipment, CO 	P	P	P	P	P	P	P
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION) <ul style="list-style-type: none"> Ames Research Center, CA Goddard Space Flight Center, MD 	P		P		P	P	

P = reported continuing program
I = reported individual projects

Noise Activities Index

A-3. ENVIRONMENTAL NOISE/MACHINERY NOISE - Continued

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	BEARING NOISE	FAN NOISE	GEAR NOISE	VIBRATION	IMPULSE NOISE	ADDITIONAL CATEGORIES INCLUDED BY SPECIFIED AGENCY OR DEPARTMENT
NASA (Continued) Johnson Space Center, TX Langley Research Center, VA Lewis Research Center, OH Marshall Space Flight Center, AL	I I P	P 	P P 	P P P 	I P P 	P 	
DEPARTMENT OF TRANSPORTATION Transportation Systems Center, MA		P	P	P	P	P	

P = reported continuing program
 I = reported individual projects

Noise Activities Index

A-4. ENVIRONMENTAL NOISE/CONSTRUCTION NOISE

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	COMMUNITY IMPACT	NOISE REGULATIONS
DEPARTMENT OF AGRICULTURE Forest Service • Equipment Development Center, CA			P
DEPARTMENT OF COMMERCE National Bureau of Standards, D.C.	P		P
DEPARTMENT OF DEFENSE Army • Audiology and Speech Center (Walter Reed Medical Center), D.C. • Construction Engineering Research Laboratory, IL • Mobility Equipment Research and Development Center, VA • Standards Laboratory, AL Navy • Aircraft Environmental Support Office, CA • Surface Weapons Center, Dahlgren Laboratory, VA	P i P		P P
DEPARTMENT OF ENERGY Lawrence Livermore Laboratory, CA Oak Ridge National Laboratory, TN	P	P	P
ENVIRONMENTAL PROTECTION AGENCY Noise Enforcement Facility, OH	P		P
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control • National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	P		P

P = reported continuing program
 i = reported individual projects

Noise Activities Index

A-4. ENVIRONMENTAL NOISE/CONSTRUCTION NOISE - Continued

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	COMMUNITY IMPACT	NOISE REGULATIONS
<p>DEPARTMENT OF THE INTERIOR</p> <ul style="list-style-type: none"> • Bureau of Mines • Pittsburgh Mining and Safety Center, PA <p>Mining Enforcement and Safety</p> <ul style="list-style-type: none"> • Technical Support - Coal Equipment, PA <p>NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)</p> <p>Lewis Research Center, OH</p>	<p>P</p> <p>P</p> <p>I</p>		<p>P</p>

P = reported continuing program
 I = reported individual projects

Noise Activities Index

B-1. OCCUPATIONAL NOISE/ENGINEERING CONTROL OF SOURCES

AGENCY/LABORATORY	MATERIALS	MUFFLERS	ENCLOSURES
DEPARTMENT OF AGRICULTURE			
Forest Service			
• Equipment Development Center, CA	P	P	P
DEPARTMENT OF COMMERCE			
National Bureau of Standards, D.C.	P		P
DEPARTMENT OF DEFENSE			
Air Force			
• Flight Dynamics Laboratory, OH	P	P	P
Army			
• Audiology and Speech Center (Walter Reed Medical Center), D.C.	P	P	P
• Construction Engineering Research Laboratory, IL	P	P	P
• Electronics Command, NJ	I	I	
• Electronics Command, Avionics Laboratory, NJ	P	P	
• Environmental Hygiene Agency, Bioacoustics Division, MD	P	P	P
• Human Engineering Laboratory, MD	P	P	
• Mobility Equipment Research and Development Center, VA		I	I
Navy			
• David Taylor Naval Ship Research and Development Center, Annapolis, MD	P	P	P
• David Taylor Naval Ship Research and Development Center, Bethesda, MD	P	P	P
• Aircraft Environmental Support Office, CA			P
• Air Development Center, PA			
• Air Vehicle Technology Department	I	I	
• Air Engineering Center, NJ	P	P	P
• Air Propulsion Test Center, NJ	P	P	P
• Ocean Systems Center, CA			
• Acoustics, Behavior and Communications Group	P	P	P
• Speech Systems and Interference Branch	I		I
• Pacific Missile Test Center, CA	I	I	
• Ship Engineering Center, James Polk Building National Center, VA	P	P	P
• Surface Weapons Center, Dahlgren Laboratory, VA	P	P	P

P = reported continuing program

I = reported individual projects

Noise Activities Index

B-1. OCCUPATIONAL NOISE/ENGINEERING CONTROL OF SOURCES - Continued

AGENCY/LABORATORY	MATERIALS	MUFFLERS	ENCLOSURES
Navy (Continued) <ul style="list-style-type: none"> • Weapons Support Center, IN • Aircraft Equipment Division • Fleet Logistics Support Division • Medical Department 	P I P	P P	P P
DEPARTMENT OF ENERGY <ul style="list-style-type: none"> Lawrence Livermore Laboratory, CA Oak Ridge National Laboratory, TN 	P	P P	P P
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE <ul style="list-style-type: none"> Center for Disease Control • National Institute for Occupational Safety and Health, Cincinnati, OH 	P	P	P
DEPARTMENT OF THE INTERIOR <ul style="list-style-type: none"> Bureau of Mines <ul style="list-style-type: none"> • Noise Research Laboratory, PA • Pittsburgh Mining and Safety Research Center, PA • Rolla Metallurgy Research Center, MO Mining Enforcement and Safety <ul style="list-style-type: none"> • Technical Support - Coal Equipment, PA • Technical Support - Non-Coal Equipment, CO Mine Safety and Health Administration, PA <ul style="list-style-type: none"> • Noise Branch 	P P P	P P P	P P P
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION) <ul style="list-style-type: none"> Ames Research Center, CA Johnson Space Center, TX Langley Research Center, VA 	P I P	P I	P I
DEPARTMENT OF TRANSPORTATION <ul style="list-style-type: none"> Transportation Systems Center, MA 	P	P	P

P = reported continuing program
I = reported individual projects

Noise Activities Index

B-2. OCCUPATIONAL NOISE/ADMINISTRATIVE CONTROL OF NOISE - Continued

AGENCY/LABORATORY	DOSIMETRY TIME STUDIES	
<p>DEPARTMENT OF THE INTERIOR (Continued)</p> <ul style="list-style-type: none"> Mine Safety and Health Administration <ul style="list-style-type: none"> • Noise Branch, PA <p>DEPARTMENT OF TRANSPORTATION</p> <ul style="list-style-type: none"> Federal Aviation Administration <ul style="list-style-type: none"> • Aeronautical Center Research Laboratory, OK Federal Railroad Administration <ul style="list-style-type: none"> • Transportation Test Center, CO 	<p>P</p> <p>P</p> <p>P</p>	<p>P</p> <p>P</p> <p>P</p>

P = reported continuing program
I = reported individual projects

Noise Activities Index

B-3. OCCUPATIONAL NOISE/HEARING PROTECTIVE DEVICES - Continued

AGENCY/LABORATORY	EAR PROTECTORS	HELMET DESIGN
<p>Center for Disease Control (Continued)</p> <ul style="list-style-type: none"> National Institute of Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W, VA 	P	P
<p>DEPARTMENT OF THE INTERIOR</p>		
<p>Mining Enforcement and Safety</p>		
<ul style="list-style-type: none"> Technical Support - Coal Equipment, PA 	P	
<p>Mine Safety and Health Administration</p>		
<ul style="list-style-type: none"> Noise Branch, PA 	P	
<p>DEPARTMENT OF TRANSPORTATION</p>		
<p>Federal Aviation Administration</p>		
<ul style="list-style-type: none"> Aeronautical Center Research Laboratory, OK 	I	

P = reported continuing program
 I = reported individual projects

Noise Activities Index

B-4. OCCUPATIONAL NOISE/AUDIOMETRY

AGENCY/LABORATORY	HEARING LOSS EQUIPMENT DESIGN	
DEPARTMENT OF AGRICULTURE Forest Service • Equipment Development Center, CA	B	
DEPARTMENT OF COMMERCE National Bureau of Standards, D.C.		
DEPARTMENT OF DEFENSE Air Force • Aerospace Medical Research Laboratory, Bioacoustics Branch, OH • School of Aerospace Medicine, TX Army • Aero Medical Research Laboratory, AL • Audiology and Speech Center (Walter Reed Medical Center), D.C. • Electronics Command, Avionics Laboratory, NJ • Environmental Hygiene Agency, Bioacoustics Division, MD • Human Engineering Laboratory, MD • Standards Laboratory, AL Navy • Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL • Air Propulsion Test Center, NJ • Pacific Missile Test Center, CA • Submarine Medical Research Laboratory, Auditory Division, CT	I	P P P P P P P P P P
DEPARTMENT OF ENERGY Lawrence Livermore Laboratory, CA Oak Ridge National Laboratory, TN	P P	
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control • National Institute for Occupational Safety and Health, Cincinnati, OH • National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	P P	P

P = reported continuing program
 I = reported individual projects

Noise Activities Index

B-4. OCCUPATIONAL NOISE/AUDIOMETRY - Continued

AGENCY/LABORATORY		HEARING LOSS	EQUIPMENT DESIGN
<p>DEPARTMENT OF TRANSPORTATION</p> <ul style="list-style-type: none"> • Federal Aviation Administration • Aeronautical Center Research Laboratory, OK • Federal Railroad Administration • Transportation Test Center, CO 	<p>P</p> <p>P</p>		

P = reported continuing program
 I = reported individual projects

Noise Activities Index

C-1. HEALTH EFFECTS RESEARCH/NON-AUDITORY EFFECTS OF NOISE

AGENCY/LABORATORY	ANNOYANCE	TRAUMA	SPEECH INTERFERENCE	EFFECTS ON PERFORMANCE
DEPARTMENT OF AGRICULTURE				
Forest Service				
• Equipment Development Center, CA	I		I	
DEPARTMENT OF COMMERCE				
National Bureau of Standards, D.C.	P			
DEPARTMENT OF DEFENSE				
Air Force				
• Aerospace Medical Research Laboratory, OH				
• Bioacoustics Branch	I	P	I	I
• Biodynamics Branch	P		P	P
Army				
• Audiology and Speech Center (Walter Reed Medical Center), D.C.		P	P	P
• Electronics Command, NJ			I	
• Electronics Command, Avionics Laboratory, NJ			P	P
• Environmental Hygiene Agency, Bioacoustics Division, MD		P	P	
• Human Engineering Laboratory, MD			P	P
Navy				
• David Taylor Naval Ship Research and Development Center, Bethesda, MD			P	
• Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL		P	P	P
• Air Propulsion Test Center, NJ	P		P	
• Health Research Center, CA	I	I		I
• Ocean Systems Center, CA				
• Acoustics, Behavior and Communications Group	P		P	P
• Speech Systems and Interference Branch			I	
• Pacific Missile Test Center, CA			I	P
• Research and Development Center, CA	P	P	P	P
• Submarine Medical Research Laboratory, Auditory Division, CT	P	B	P	P
• Surface Weapons Center, Dahlgren Laboratory, VA	P			
• Weapons Support Center, Medical Department, IN	P	P	P	
DEPARTMENT OF ENERGY				
Lawrence Berkeley Laboratory, CA	P	P	P	P
Lawrence Livermore Laboratory, CA	P		P	

P = reported continuing program
 I = reported individual projects

Noise Activities Index

C-1. HEALTH EFFECTS RESEARCH/NON-AUDITORY EFFECTS OF NOISE - Continued

AGENCY/LABORATORY	ANNOYANCE	TRAUMA	SPEECH INTERFERENCE	EFFECTS ON PERFORMANCE
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control • National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA				P
DEPARTMENT OF THE INTERIOR Mine Safety and Health Administration • Noise Branch, PA			I	I
NASA (NATIONAL AERONAUTICS AND SPACE ADMINISTRATION) Ames Research Center, CA	P		P	
DEPARTMENT OF TRANSPORTATION Federal Aviation Administration • Aeronautical Center Research Laboratory, OK		I		

P = reported continuing program
 I = reported individual projects

Noise Activities Index

C-2. HEALTH EFFECTS RESEARCH/HEARING LOSS

AGENCY/LABORATORY	MEASUREMENT TECHNIQUES	MEDICAL EFFECTS
DEPARTMENT OF AGRICULTURE Forest Service • Equipment Development Center, CA	I	
DEPARTMENT OF COMMERCE National Bureau of Standards, D.C.	P	
DEPARTMENT OF DEFENSE Army • Audiology and Speech Center (Walter Reed Medical Center), D.C. • Electronics Command, Avionics Laboratory, NJ • Environmental Hygiene Agency, Bioacoustics Division, MD • Human Engineering Laboratory, MD • Standards Laboratory, AL Navy • Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL • Submarine Medical Research Laboratory, Auditory Division, CT • Weapons Support Center, Medical Department, IN	P P P P P P P P	P P P
DEPARTMENT OF ENERGY Lawrence Livermore Laboratory, CA Oak Ridge National Laboratory, TN	P	P P
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control • National Institute for Occupational Safety and Health, Cincinnati, OH • National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, VA National Institutes of Health • National Institute of Environmental Health Science, Laboratory of Environmental Physics, NC	P P	P P P

P = reported continuing program
 † = reported individual projects

Noise Activities Index

D. MISCELLANEOUS RELATED ACTIVITIES - Continued

AGENCY/LABORATORY	ANIMAL RESPONSE TO SOUND	SPECIAL INSTRUMENTATION	ACOUSTIC DATA PROCESSING	UNDERWATER NOISE
<p>Navy (Continued)</p> <ul style="list-style-type: none"> ● Surface Weapons Center, MD ● Surface Weapons Center, Dahlgren Laboratory, VA ● Underwater Systems Center, CT ● Weapons Support Center, IN <ul style="list-style-type: none"> ● ASW and Aircraft Equipment Division ● Fleet Logistics Support Department 	<p>P P P P</p>	<p>P P</p>	<p>P P</p>	<p>P P P I</p>
<p>DEPARTMENT OF ENERGY</p> <p>Lawrence Berkeley Laboratory, CA</p>	<p>P</p>	<p>P</p>		
<p>DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE</p> <p>Center for Disease Control</p> <ul style="list-style-type: none"> ● National Institute for Occupational Safety and Health, Cincinnati, OH ● National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA 	<p>P P</p>	<p>P P</p>		
<p>DEPARTMENT OF THE INTERIOR</p> <p>Bureau of Mines</p> <ul style="list-style-type: none"> ● Noise Research Laboratory, PA ● Pittsburgh Mining and Safety Research Center, PA <p>Mining Enforcement and Safety</p> <ul style="list-style-type: none"> ● Technical Support - Coal Equipment, PA <p>Mine Safety and Health Administration</p> <ul style="list-style-type: none"> ● Noise Branch, PA 	<p>P P P P</p>	<p>P P</p>		
<p>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION</p> <p>Ames Research Flight Center, CA</p> <p>Goddard Space Flight Center, MD</p> <p>Jet Propulsion Laboratory, CA</p> <p>Johnson Space Center, TX</p> <p>Langley Research Center, VA</p> <p>Marshall Space Flight Center, AL</p>	<p>P P P I P</p>	<p>P P P I P</p>		

P = reported continuing program
I = reported individual projects

SECTION 3 NOISE INSTRUMENTATION AND SPECIAL FACILITIES INDEX

This section identifies the Federal laboratories and related research facilities which have the following instrumentation and facilities for noise measurement:*

- A. Analog Tape Recorders
- B. Community Noise Monitors
- C. Dosimeters
- D. Signal Processing Equipment
- E. Audiometric Booths
- F. Anechoic Chambers
- G. Semireverberant Room
- H. Scale Model Test Facilities
- I. Computers

*All the facilities listed are presumed to have sound level meters and calibrators; therefore, these are not included.

Noise Instrumentation and Special Facilities Index

A. ANALOG TAPE RECORDERS -- Instruments which continuously record the physical sound input.	
AGENCY	LABORATORY/FACILITY
DEPARTMENT OF AGRICULTURE, FOREST SERVICE	Equipment Development Center, CA
DEPARTMENT OF COMMERCE National Bureau of Standards	
DEPARTMENT OF DEFENSE Air Force	Aerospace Medical Research Laboratory, OH ● Bioacoustics Branch ● Biodynamics Branch Flight Dynamics Laboratory, OH
Army	Aero Medical Research Laboratory, AL Audiology and Speech Center (Walter Reed Army Medical Center), D.C. Ballistics Research Laboratory, MD Construction Engineering Research Laboratory, IL Electronics Command, NJ Electronics Command, Avionics Laboratory, NJ Environmental Hygiene Agency, MD Mobility Equipment Research and Development Center, VA Tank-Automotive Command, MI
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD David Taylor Naval Ship Research and Development Center, Bethesda, MD Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Aircraft Environmental Support Office, CA Air Engineering Center, NJ Air Propulsion Test Center, NJ Air Test Center, MD Environmental Health Center, OH Ocean Systems Center, Speech Systems and Interference Branch, CA Pacific Missile Test Center, CA Research and Development Center, CA Research Laboratory, Acoustics Division, D.C. Submarine Medical Research Laboratory, Auditory Division, CT Surface Weapons Center, MD Surface Weapons Center, Dahlgren Laboratory, VA Weapons Center, CA
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA Lawrence Livermore Laboratory, CA
ENVIRONMENTAL PROTECTION AGENCY	Noise Enforcement Facility, OH

Noise Instrumentation and Special Facilities Index

A. ANALOG TAPE RECORDERS - Continued	
AGENCY	LABORATORY/FACILITY
<p>DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control</p>	<p>National Institute for Occupational Safety and Health, Cincinnati, OH National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA National Institute of Environmental Health Sciences, Laboratory of Environmental Physics, NC</p>
<p>DEPARTMENT OF THE INTERIOR Bureau of Mines</p>	<p>Noise Research Laboratory, PA Pittsburgh Mining and Safety Research Center, PA Rolls Metallurgy Research Center, MO</p>
<p>Mining Enforcement and Safety Administration</p>	<p>Technical Support - Coal Equipment, PA Technical Support - Non-Coal Equipment, CO</p>
<p>Mining Safety and Health Administration</p>	<p>Noise Branch, PA</p>
<p>NATIONAL AERONAUTICS AND SPACE ADMINISTRATION</p>	<p>Ames Research Center, CA Goddard Space Flight Center, MD Jet Propulsion Laboratory, CA Johnson Space Center, TX Langley Research Center, OH Marshall Space Flight Center, AL Wallops Flight Center,* VA</p>
<p>DEPARTMENT OF TRANSPORTATION Federal Aviation Administration</p>	<p>Transportation Systems Center, MA Aeronautical Center Research Laboratory, OK</p>
*digital tape recorder, not analog	

Noise Instrumentation and Special Facilities Index

B. COMMUNITY NOISE MONITORS – Surveys which record the temporal sound pressures in dBA and provide statistical analyses of sound levels presenting the results in histograms.	
AGENCY	LABORATORY/FACILITY
DEPARTMENT OF COMMERCE National Bureau of Standards	
DEPARTMENT OF DEFENSE	
Air Force	Aerospace Medical Research Laboratory, Biodynamics Branch, OH
Army	Construction Engineering Research Laboratory, IL Environmental Hygiene Agency, Bioacoustics Division, MD Standards Laboratory, AL
Navy	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Aircraft Environmental Support Office, CA Naval Oceans Systems Center, Acoustics, Behavior and Communications Group, CA Weapons Center, CA Weapons Support Center, Medical Department, CA
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA
DEPARTMENT OF TRANSPORTATION	Transportation Systems Center, MA

Noise Instrumentation and Special Facilities Index

C. DOSIMETERS -- Devices that measure accumulated noise exposure. Many can be worn by a worker throughout the workday to determine his or her total noise exposure for that time.	
AGENCY	LABORATORY/FACILITY
DEPARTMENT OF AGRICULTURE Forest Service	Equipment Development Center, CA
DEPARTMENT OF COMMERCE National Bureau of Standards	
DEPARTMENT OF DEFENSE Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH
Army	Construction Engineering Research Laboratory, IL Mobility Equipment Research and Development Center, VA Tank-Automotive Command, MI
Navy	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Air Propulsion Test Center, NJ Air Test Center, MD Environment Health Center, OH Weapons Support Center, Medical Department, CA
DEPARTMENT OF ENERGY	Lawrence Livermore Laboratory, CA Oak Ridge National Laboratory, TN
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA
DEPARTMENT OF THE INTERIOR Bureau of Mines	Noise Research Laboratory, PA Rolla Metallurgy Research Center, MO
Mining Enforcement and Safety	Technical Support -- Coal Equipment, PA Technical Support -- Non-Coal Equipment, CO
Mining Safety and Health Administration	Noise Branch, PA
DEPARTMENT OF TRANSPORTATION Federal Aviation Administration	Aeronautical Center Research Laboratory, OK

Noise Instrumentation and Special Facilities Index

C. DOSIMETERS - Continued	
AGENCY	LABORATORY/FACILITY
DEPARTMENT OF TRANSPORTATION (Continued) Federal Railroad Administration	Transportation Test Center, CO.

Noise Instrumentation and Special Facilities Index

D. SIGNAL PROCESSING EQUIPMENT — Equipment which manipulate acoustic signatures for analytical purposes (e.g., octave band analyzers).	
AGENCY	LABORATORY/FACILITY
DEPARTMENT OF AGRICULTURE Forest Service	Equipment Development Center, CA
DEPARTMENT OF COMMERCE National Bureau of Standards National Oceanic and Atmospheric Administration	Wave Propagation Laboratory, CO
DEPARTMENT OF DEFENSE Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH Aerospace Medical Research Laboratory, Biodynamic Branch, OH Flight Dynamics Laboratory, OH
Army	Aero Medical Research Laboratory, AL Audiology and Speech Center (Walter Reed Army Medical Center), Washington, D.C. Ballistics Research Laboratory, MD Construction Engineering Research Laboratory, IL Electronics Command, Avionics Laboratory, NJ Environmental Hygiene Agency, Bioacoustics Division, MD Human Engineering Laboratory, MD Mobility Equipment Research and Development, VA Tank-Automotive Command, MI
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD David Taylor Naval Ship Research and Development Center, Bethesda, MD Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Aircraft Environmental Support Office, CA Air Development Center, Aeroelectronic Technology Department, PA Air Engineering Center, NJ Air Propulsion Test Center, NJ Air Test Center, MD Environmental Health Center, OH Ocean Systems Center, Acoustics, Behavior and Communications Group, CA Ocean Systems Center, Speech Systems and Interference Branch, CA Pacific Missile Test Center, CA Research and Development Center, CA Research Laboratory, Acoustics Division, Washington, D.C. Research Laboratory, Underwater Sound Reference Division, FL Submarine Medical Research Laboratory, Auditory Division, CT Surface Weapons Center, VA Weapons Center CA

Noise Instrumentation and Special Facilities Index

D. SIGNAL PROCESSING EQUIPMENT -- Continued	
AGENCY	LABORATORY/FACILITY
Navy (Continued)	Weapons Support Center, ASW and Aircraft Equipment Division, IN Weapons Support Center, Medical Department, IN
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA
ENVIRONMENTAL PROTECTION AGENCY	Noise Enforcement Facility, OH
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE	
Center for Disease Control	National Institute for Occupational Safety and Health, OH National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA
National Institutes of Health	National Institute of Environmental Health Sciences, Laboratory of Environmental Physics, NC
DEPARTMENT OF THE INTERIOR	
Bureau of Mines	Noise Research Laboratory, PA Pittsburgh Mining and Safety Research Center, PA Rolla Metallurgy Research Center, MO
Mining Enforcement and Safety	Technical Support -- Coal Equipment, PA Technical Support -- Non-Coal Equipment, CO
Mining Safety and Health Administration	Noise Branch, PA
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Ames Research Center, CA Goddard Space Flight Center, MD Jet Propulsion Laboratory, CA Johnson Space Center, TX Langley Research Center, VA Wallops Flight Center, VA
DEPARTMENT OF TRANSPORTATION	
Federal Railroad Administration	Transportation Systems Center, MA Transportation Test Center, CO

Noise Instrumentation and Special Facilities Index

E. AUDIOMETRIC BOOTH — Specially designed room which allows background noise to be kept at an absolute minimum so that valid audiometric (hearing measurement) tests can be made.		
AGENCY	LABORATORY/FACILITY	CHARACTERISTICS
DEPARTMENT OF AGRICULTURE Forest Service	Equipment Development Center, CA	
DEPARTMENT OF COMMERCE National Bureau of Standards		1x1x2.1m, 2.5x3x2m
DEPARTMENT OF DEFENSE Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH Aerospace Medical Research Laboratory, Biodynamics Branch, OH School of Aerospace Medicine, TX	
Army	Aero Medical Research Laboratory, AL Audiology and Speech Center (Walter Reed Army Medical Center), Washington, D.C. Electronics Command, Avionics Laboratory, NJ Human Engineering Laboratory, MD	Double Wall Booth (4) Double Wall, Double Booth (5) Single Wall Booth (1 man) (3)
Navy	David Taylor Naval Ship Research and Development Center, Bethesda, MD Air Propulsion Test Center, NJ Pacific Missile Test Center, CA Submarine Medical Research Laboratory, Auditory Division, CT Weapons Support Center, Medical Department, IN Submarine Medical Research Laboratory, CT	1AC 1200 401 Clinical (2) 1AC Model 400A
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA Oak Ridge National Laboratory, TN	4x4 40"x36"x78" height 76"x72"x78" height
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	
DEPARTMENT OF THE INTERIOR Mining Safety and Health Administration	Noise Branch, PA	Soundproof Room, 6'x6'x8'

Noise Instrumentation and Special Facilities Index

E. AUDIOMETRIC BOOTH - Continued		
AGENCY	LABORATORY/FACILITY	CHARACTERISTICS
NATIONAL AERONAUTICS AND SPACE ADMINIS- TRATION	Ames Research Center, CA Lewis Research Center, OH	4x4
DEPARTMENT OF TRANS- PORTATION		
Federal Aviation Administration	Aeronautical Center Research Laboratory, OK	Single person (automatic) (6)
Federal Railroad Administration	Transportation Test Center, CO	3'x3'

Noise Instruction and Special Facilities Index

F. ANECHOIC CHAMBER — A room whose boundaries have been specially designed with acoustically absorbent material to absorb nearly all the sound incident on its boundaries, thereby affording a test room essentially free from reflected sound.			
AGENCY	LABORATORY/FACILITY	NUMBER	CHARACTERISTICS
DEPARTMENT OF COMMERCE National Bureau of Standards		1	10.1x6.7x6.7m (wedge tips)
DEPARTMENT OF DEFENSE Air Force	Aerospace Medical Research Laboratory, OH • Bioacoustics Branch • Biodynamics Branch Flight Dynamics Laboratory, OH	1	Not specified
Army	Aero Medical Research Laboratory, AL Electronics Command, Avionics Laboratory, NJ Human Engineering Laboratory, MD Tank-Automotive Command, MI	1 1 Not specified 1	10'x12' 9'x9'x7' Not reported Somi 14'x18'x34'
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD David Taylor Naval Ship Research and Development Center, Bethesda, MD Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Air Development Center, Aero Electronic Technology Department, PA Air Propulsion Test Center, NJ Pacific Missile Test Center, CA Submarine Medical Research Laboratory, Auditory Division, CT Weapons Center, CA Weapons Support Center, ASW and Aircraft Equipment Division, IN	Not specified Not specified Not specified Not specified Not specified 1 4 2 Not specified	Not reported Not reported Not reported Not reported Not reported 2,600 cu.ft. 32' on a side (2), 12' on a side (2) 20'x20' Hydroacoustics Tanks
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	1	Not specified

Noise Instruction and Special Facilities Index

F. ANECHOIC CHAMBER - Continued			
AGENCY	LABORATORY/FACILITY	NUMBER	CHARACTERISTICS
DEPARTMENT OF THE INTERIOR Mining Enforcement and Safety Mining Safety and Health Administration	Technical Support - Coal Equipment, PA	1	Not reported
	Noise Branch, PA	1	10'x10'x10' (wedge)
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Ames Research Center, CA	1	9'x14'x7'
	Goddard Space Flight Center, MD	1	500 cu.ft.
	Jet Propulsion Laboratory, CA	1	5m x 8m x 3m
	Langley Research Center, VA	1	Not reported
DEPARTMENT OF TRANSPORTATION Federal Aviation Administration	Aeronautical Center Research Laboratory, OK	1	15'x15'x15'

Noise Instruction and Special Facilities Index

G. SEMIREVERBERANT ROOM – An enclosure used for making acoustical measurements in which some surfaces have known sound reflective properties.			
AGENCY	LABORATORY/FACILITY	NUMBER	DIMENSIONS
DEPARTMENT OF DEFENSE			
Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch, OH Aerospace Medical Research Laboratory, Biodynamics Branch, OH Flight Dynamics Laboratory, OH	1	Not reported
Army	Electronics Command, Avionics Laboratory, NJ	1	10'x14'
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD	Not specified	Not reported
	David Taylor Naval Ship Research and Development Center, Bethesda, MD Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL Ocean Systems Center, Speech Systems and Interference Branch, CA Submarine Medical Research Laboratory, Auditory Division, CT	Not specified 1 6	Not reported 8'x11'x7', 4'x7'x3'
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE			
Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	1	Not specified
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION			
	Langley Research Center, VA	1	Not specified

Noise Instruction and Special Facilities Index

H. REVERBERATION ROOM -- An enclosure used for making acoustical measurements in which all surfaces have known sound reflective properties.			
AGENCY	LABORATORY/FACILITY	NUMBER	DIMENSIONS
DEPARTMENT OF COMMERCE National Bureau of Standards		1	6.1x7.6x9.1m
DEPARTMENT OF DEFENSE Air Force	Aerospace Medical Research Laboratory, OH • Biocoustics Branch • Biodynamics Branch Flight Dynamics Laboratory, OH	1 1 Not specified	Not specified Not specified Not reported
Army	Aero Medical Research Laboratory (plans to build) Human Engineering Laboratory, MD	Not specified	Not reported
Navy	David Taylor Naval Ship Research and Development Center, Bethesda, MD Submarine Medical Research Laboratory, Auditory Division, CT	Not specified 1	Not reported 14'x19'x8' high (walls slanted)
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA	2	19'x40'x16', 39'x47'x75'
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control, National Institute for Occupational Safety and Health	Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	1	Not specified
DEPARTMENT OF THE INTERIOR Mining Enforcement and Safety	Technical Support -- Coal Equipment, PA	1	Not reported
Mining Safety and Health Administration	Noise Branch, PA	1	20'x20'x17' (steel)
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Goddard Space Flight Center, MD	2	(11'x17'x13', and 43'x34'x27')
	Jet Propulsion Laboratory, CA	1	7x7x10 meters
	Langley Research Center, VA	1	20'x30'x10'
	Marshall Space Flight Center, AL	1	15'x18'x10'

Noise Instruction and Special Facilities Index

I. SCALE MODEL TEST FACILITIES — Facilities available for introduction of control variables to simulate real life conditions (e.g., wind tunnels)		
AGENCY	LABORATORY/FACILITY	TYPE
DEPARTMENT OF COMMERCE National Bureau of Standards		1.5x1.9x2.3m
DEPARTMENT OF DEFENSE Air Force	Aerospace Medical Research Laboratory, Biodynamics Branch, OH	Not specified
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD David Taylor Naval Ship Research and Development Center, Bethesda, MD	Pumps, Fans, Valves
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W.VA	Not specified
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Jet Propulsion Laboratory, CA Ames Research Center, CA Goddard Space Flight Center, MD	Flight Simulation, Core Noise Wind tunnel (40'x80') Progressive wave tube
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	Aeronautical Center Research Laboratory, OK	Sonic boom rooms

Noise Instruction and Special Facilities Index

J. COMPUTERS -- (1) Programmed calculators that take the values measured by acoustic instruments and derive the results of these measurements. (2) System controllers making the various elements operate together as a complete versatile system.			
AGENCY	LABORATORY/FACILITY	NUMBER	TYPE
DEPARTMENT OF COMMERCE National Bureau of Standards			Interdata Minicomputers (5)
DEPARTMENT OF DEFENSE			
Air Force	Aerospace Medical Research Laboratory, Bioacoustics Branch	1	HP 9830A
	Aerospace Medical Research Laboratory, Biodynamics Branch	2	CDC 6600, CDC 1700
	Flight Dynamics Laboratory, OH	1	Raytheon H.P., Time Data
	School of Aerospace Medicine, TX	Not specified	Not reported
Army	Aerospace Medical Research Laboratory, AL	1	SEL
	Audiology and Speech Center (Walter Reed Army Medical Center) D.C.	1	PDP11
	Ballistics Research Laboratory, MD	1	CDC 7600
	Construction Engineering Research Laboratory, IL	1	NOVA 1200
	Electronics Command, Avionics Laboratory, NJ	2	Varian 620F, MLAC PDS-4
	Human Engineering Laboratory, MD	1	HP 9865
	Materials Systems Analysis, MD	1	CDC 7600
	Standards Laboratory, AL	1	Interdata 111
	Tank-Automotive Command, MI	1	NOVA, WANG 600
Navy	David Taylor Naval Ship Research and Development Center, Annapolis, MD	Not specified	Not reported
	David Taylor Naval Ship Research and Development Center, Bethesda, MD	Not specified	Not reported
	Aerospace Medical Research Laboratory, Acoustical Sciences Division, FL	1	HP 2100B, PDP 8/L
	Aircraft Environmental Support Office, CA	1	WANG 2200T
	Air Propulsion Test Center, NJ		TI 980
	Air Test Center, MD	-	Varian
	Ocean Systems Center, Acoustics, Behavior and Communications Group, CA	1	Univac 1108
	Ocean Systems Center, Speech Systems and Interference Branch, CA	1	Univac 1110
	Pacific Missile Test Center, CA	1	PDP-11
	Research and Development Center, CA	2	PDP-12, TEKTRONIX 4051
	Research Laboratory, Acoustics Division, D.C.	1	PDP-11/40
	Submarine Medical Research Laboratory, Auditory Division, CT	1	PDP-11
	Surface Weapons Center, Dahlgren Laboratory, VA	2	HP 9830, CDC 6700

Noise Instruction and Special Facilities Index

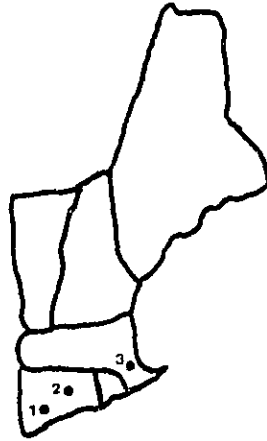
I. COMPUTERS - Continued			
AGENCY	LABORATORY/FACILITY	NUMBER	TYPE
Navy (Continued)	Weapons Support Center, ASW and Aircraft Equipment Division, IN Weapons Center, CA	1 Not specified	HP 2100
DEPARTMENT OF ENERGY	Lawrence Berkeley Laboratory, CA	Not specified	Not reported
DEPARTMENT OF HEALTH, EDUCATION AND WELFARE, PUBLIC HEALTH SERVICE Center for Disease Control	National Institute for Occupational Safety and Health, Appalachian Laboratory for Occupational Safety and Health/Testing and Certification, Safety Division, W. VA	Not specified	Not reported
DEPARTMENT OF THE INTERIOR Bureau of Mines	Pittsburgh Mining and Safety Research Center, PA	Not specified	Not reported
Mining Enforcement and Safety Mining Safety and Health Administration	Technical Support - Coal Equipment, PA Noise Branch, PA	Not specified 2	Not reported Wang 2200-C, PDP 8E
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION	Ames Research Center, CA Jet Propulsion Laboratory, CA Langley Research Center, VA Marshall Space Flight Center, AL	1 1 Not specified Not specified	HP 2108 Univac 1103 Not reported Not reported

SECTION 4 GEOGRAPHICAL INDEX

This section reflects the geographical locations of the Federal laboratories and research facilities with reported noise capabilities. Since many agencies are now organized in conformance with the standard Federal regions, this organization was followed for this directory.

Geographical Index

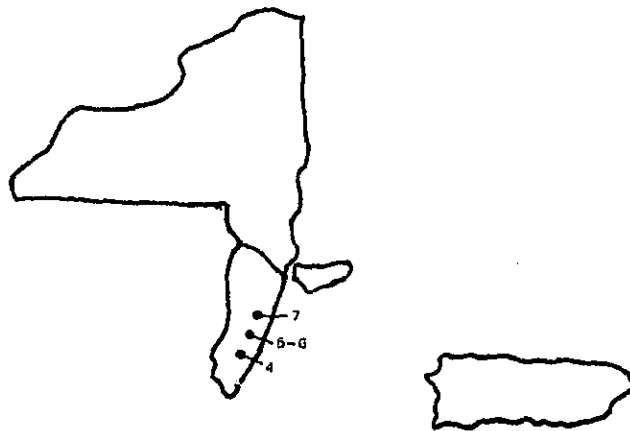
STANDARD FEDERAL REGION I



1. Naval Submarine Medical Research Laboratory, Groton, Connecticut
2. Naval Underwater Systems Center, New London, Connecticut
3. DOT, Transportation Systems Center, Cambridge, Massachusetts

Geographical Index

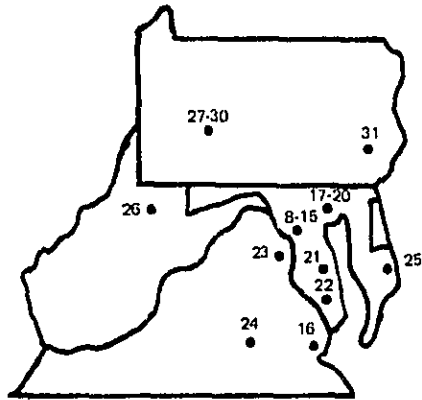
STANDARD FEDERAL REGION II



4. Federal Aviation Administration, National Aviation Facilities Experimental Center, Atlantic City, New Jersey
5. Naval Air Engineering Center, Lakehurst, New Jersey
6. Naval Air Propulsion Test Center, Lakehurst, New Jersey
7. Army Electronics Command, Avionics Laboratory, Fort Monmouth, New Jersey

Geographical Index

STANDARD FEDERAL REGION III



8. National Bureau of Standards, Acoustical Engineering Division, Washington, D.C.
9. Army Audiology and Speech Center, Walter Reed Army Medical Center, Washington, D.C.
10. Naval Research Laboratory, Acoustics Division, Washington, D.C.
11. David Taylor Naval Ship Research and Development Center, Bethesda, Maryland
12. National Institutes of Health, Bethesda, Maryland
13. Naval Surface Weapons Center, Silver Spring, Maryland
14. NASA, Goddard Space Flight Center, Greenbelt, Maryland

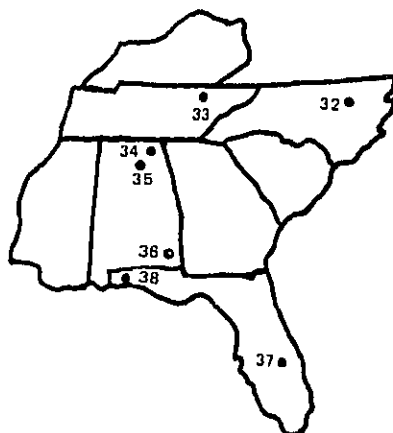
Geographical Index

STANDARD FEDERAL REGION III - Continued

15. Naval Ship Engineering Center, Arlington, Virginia
16. NASA, Langley Research Center, Langley, Virginia
17. Army Ballistics Research Laboratory, Aberdeen Proving Ground, Aberdeen, Maryland
18. Army Environmental Hygiene Agency, Bioacoustics Division, Aberdeen Proving Ground, Aberdeen, Maryland
19. Army Human Engineering Laboratory, Aberdeen Proving Ground, Aberdeen, Maryland
20. Army Material Systems Analysis, Aberdeen Proving Ground, Aberdeen, Maryland
21. David Taylor Naval Ship Research and Development Center, Annapolis, Maryland
22. Naval Air Test Center, Patuxent River, Maryland
23. Army Mobility Equipment Research and Development Center, Fort Belvoir, Virginia
24. Naval Surface Weapons Center, Dahlgren Laboratory, Dahlgren, Virginia
25. NASA, Wallops Flight Center, Wallops Island, Virginia
26. NIOSH, Appalachian Laboratory for Occupational Safety and Health, Testing and Certification Safety Division, Morgantown, West Virginia
27. Bureau of Mines, Noise Research Laboratory, Pittsburgh, Pennsylvania
28. Bureau of Mines, Pittsburgh Mining and Safety Research Center, Pittsburgh, Pennsylvania
29. Bureau of Mines, Mining Enforcement and Safety, Technical Support - Coal Equipment Group, Pittsburgh, Pennsylvania
30. Bureau of Mines, Mining Safety and Health Administration, Noise Branch, Pittsburgh, Pennsylvania
31. Naval Air Development Center, Warminster, Pennsylvania
 - Aero Electronic Technology Department
 - Air Vehicle Technology Department
 - Crew Systems Department

Geographical Index

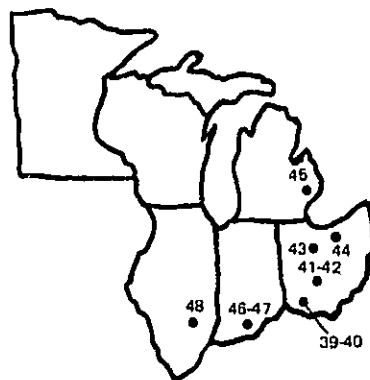
STANDARD FEDERAL REGION IV



- 32. HEW, National Institute of Environmental Health Services, Laboratory of Environmental Physics, Research Triangle Park, North Carolina
- 33. DOE, Oak Ridge National Laboratory, Oak Ridge, Tennessee
- 34. Army Standards Laboratory, Army Missile Command, Redstone Arsenal, Alabama
- 35. NASA, Marshall Space Flight Center, Huntsville, Alabama
- 36. Army Aero Medical Research Laboratory, Bioacoustics Division, Fort Rucker, Alabama
- 37. Naval Research Laboratory, Underwater Sound Reference Division, Orlando, Florida
- 38. Naval Aerospace Medical Research Laboratory, Acoustical Sciences Division, Pensacola, Florida

Geographical Index

STANDARD FEDERAL REGION V



- 39. Navy Environmental Health Center, Cincinnati, Ohio
- 40. HEW, National Institute of Occupational Safety and Health, Cincinnati, Ohio
- 41. Air Force Aerospace Medical Research Laboratory, Wright-Patterson Air Force Base, Fairborn, Ohio
 - Biodynamic Branch
 - Bioacoustics Branch
- 42. Air Force Flight Dynamics Laboratory, Wright-Patterson Air Force Base, Fairborn, Ohio
- 43. U.S. Environmental Protection Agency, Noise Enforcement Facility, Sandusky, Ohio

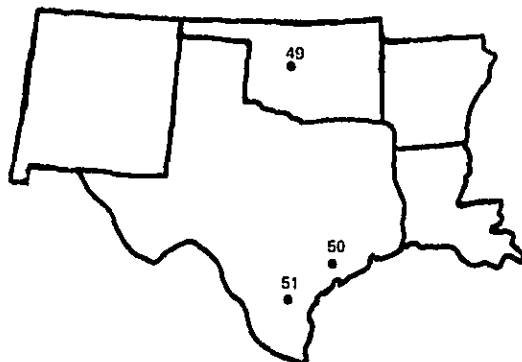
Geographical Index

STANDARD FEDERAL REGION V - Continued

44. NASA, Lewis Research Center, Cleveland, Ohio
45. Army Tank-Automotive Command, Warren, Michigan
46. Naval Weapons Support Center, Crane, Indiana
 - Aircraft Equipment Division
 - ASW and Aircraft Equipment Division
 - Fleet Logistics Support Department
47. Naval Weapons Support Center, Medical Department, Crane, Indiana
48. Army Construction Engineering Research Laboratory, Champaign, Illinois

Geographical Index

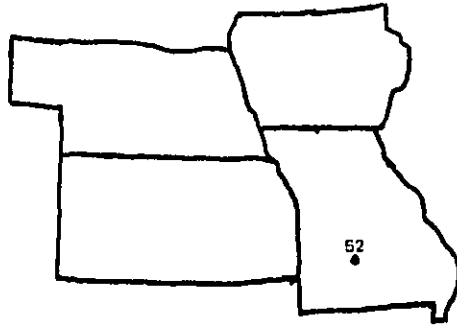
STANDARD FEDERAL REGION VI



- 49. Federal Aviation Administration, Aeronautical Center Research Laboratory, Oklahoma City, Oklahoma
- 50. NASA, Johnson Space Center, Houston, Texas
- 51. Air Force School of Aerospace Medicine, Brooks Air Force Base, Texas

Geographical Index

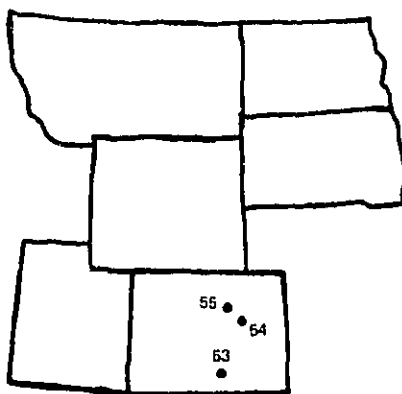
STANDARD FEDERAL REGION VII



52. Bureau of Mines, Rolla Metallurgy Research Center, Rolla, Missouri

Geographical Index

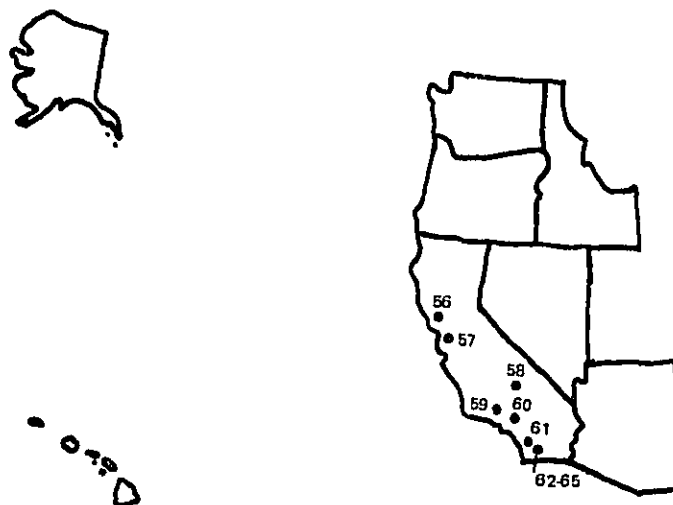
STANDARD FEDERAL REGION VIII



- 53. Federal Railroad Administration, Transportation Test Center, Pueblo, Colorado
- 54. Bureau of Mines, Mining Enforcement and Safety, Technical Support - Non-Coal Equipment Group, Denver, Colorado
- 55. DOC/NOAA, Wave Propagation Laboratory, Boulder, Colorado

Geographical Index

STANDARD FEDERAL REGIONS IX AND X



56. DOE, Lawrence Berkeley Laboratory, Berkeley, California
57. NASA, Ames Research Center, Moffett Field, California
58. Naval Weapons Center, China Lake, California
59. NASA, Jet Propulsion Laboratory, Pasadena, California
60. DDA, Forest Service, Equipment Development Center, San Dimas, California
61. Naval Pacific Missile Test Center, Point Mugu, California
62. Naval Aircraft Environmental Support Office, San Diego, California
63. Naval Health Research Center, San Diego, California
64. Naval Ocean Systems Center, San Diego, California
 - Behavior, Acoustics and Communications Group
 - Speech Systems and Interface Branch
65. Navy Research and Development Center, San Diego, California

APPENDIX A
DEFINITIONS OF TERMS

DEFINITIONS

Administrative Controls	any procedure which limits daily noise exposure by adjustment of the work schedule or by relocation of personnel
Analog Tape Recorder	instrument which continuously records the physical sound input
Anechoic Chamber	a room whose boundaries have been specially designed with acoustically absorbent material to absorb nearly all the sound incident on its boundaries, thereby affording a test room essentially free from reflected sound
Audiogram	a graph of hearing threshold level as a function of frequency that is obtained from an audiometric examination
Audiometric Booth	specially designed room which allows background noise to be kept at an absolute minimum so that valid audiometric (hearing measurement) tests can be made
Community Noise Monitors	a survey which records the temporal sound pressure in dBA and provides statistical analysis of sound levels presenting the result in histograms
Computer	(1) a programmed calculator that takes the values measured by acoustic instruments and derives the results of these measurements; (2) a system controller making the various elements operate together as a complete versatile system
Decibel	a unit of measurement of sound level, equal to twenty times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals
(decibels A-weighted)	a unit of measurement of sound level weighted so as to correlate well with human response to noise, as defined in ANSI S1.4-1971

Dosimeter	a device that measures accumulated noise exposure. Many can be worn by a worker throughout the workday to determine his or her total noise exposure for that time
Engineering Control	any design procedure that reduces the sound level either at the source of the noise or in the hearing zone of the workers
Hearing Protective Device	a device which, when worn by an individual, reduces the sound entering the ear
Microphone	an electroacoustic transducer that responds to sound waves and delivers essentially equivalent electric waves
Microphone Calibration	an instrument capable of emitting one or more precise tones that are used to calibrate instrument systems employing microphones (e.g., sound level meters).
Non-Auditory Effects of Noise	the study of the perception of sounds
Reverberation Room	an enclosure used for making acoustical measurements in which all surfaces of the room are all as sound reflective as possible
Scale Model Test Facilities	facilities available for introduction of control variables to simulate real-life conditions
Semireverberant Room	an enclosure used for making acoustical measurements in which some surfaces have known sound reflective properties
Signal Processing Equipment	equipment which manipulates acoustic signatures for analytic purposes (e.g., optic band analyzers)
Sound Level Meter	an instrument, consisting of a microphone, an amplifier, an output meter, and frequency-weighted networks, that is used for the measurement of noise and sound levels in a specified manner

Unique Noise Computer Program a program for a noise instrumentation system may include such widely varying functions as control of measuring instruments, calculations of various predictors of human reactions, comparisons with stored criteria calculations of statistical measures of the measured results and a printout of the summary

APPENDIX B
QUESTIONNAIRE USED IN DEVELOPING
THIS DIRECTORY

TELEPHONE QUESTIONNAIRE
ACOUSTIC CAPABILITIES

Agency:

Organization Name:

Organization Address:

Mission within Organization:

General Information Phone Number:

Cognizant Individual:

	YES	NO
I. Do you have a noise program? (i.e., similar efforts performed each year as opposed to separately funded individual tasks)	---	---

BRIEF DESCRIPTION:

Support of:

Goals:

Funding:

	<u>Individual Project</u>	<u>Part of Program</u>
II. Summary of Present Noise Efforts:		
A. Environmental Noise		
1. <u>Air Transportation</u>		
Aircraft Noise Propagation	---	---
Aircraft Noise Monitoring	---	---
Aircraft Noise Measurement	---	---
Noise Measurement Techniques	---	---
Aircraft Noise Modeling	---	---
Sonic Boom	---	---
2. <u>Surface Transportation</u>		
Auto Noise	---	---
Truck Noise	---	---
Railroad Noise	---	---
Measurement Techniques	---	---
Noise Modeling	---	---

	<u>Individual Project</u>	<u>Part of Program</u>
3. <u>Machinery Noise</u>		
Measurement Techniques	---	---
Bearing Noise	---	---
Fan Noise	---	---
Gear Noise	---	---
Vibration	---	---
Impulse Noise	---	---
4. <u>Construction Noise</u>		
Measurement Techniques	---	---
Community Impact	---	---
Noise Regulations	---	---
B. Occupational Noise		
1. <u>Engineering Control of Sources</u>		
Materials	---	---
Mufflers	---	---
Enclosures	---	---
2. <u>Administrative Control of Noise</u>		
Dosimetry	---	---
Time Studies	---	---
3. <u>Hearing Protective Devices</u>		
Ear Protectors	---	---
Helmet Design	---	---
4. <u>Audiometry</u>		
Hearing Loss	---	---
Equipment Design	---	---
C. Health Effects Research		
1. <u>Non Auditory Effects of Noise</u>		
Annoyance	---	---
Trauma	---	---
Speech Interference	---	---
Effects on Performance	---	---
2. <u>Hearing Loss</u>		
Measurement Techniques	---	---
Medical Effects	---	---

	<u>Individual Project</u>	<u>Part of Program</u>
D. Miscellaneous		
1. Underwater Noise	—	—
2. Acoustic Data Processing	—	—
3. Special Instrumentation	—	—
4. Animal Response to Sound	—	—

III. Staffing (engaged in acoustical efforts)

<u>Key Individuals</u>	<u>Title</u>	<u>Group within Organization</u>	<u>Phone Number</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

IV. Could you summarize your past acoustic efforts?

<u>Effort</u>	<u>Time Frame</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

V. Summary of Acoustic Equipments (estimates of equipments available for your efforts):

<u>Equipment</u>	<u>Approximate Number</u>
SLM	—
Analog Tape Recorders	—

<u>Equipment</u>	<u>Approximate Number</u>
Microphones:	_____
Lab Quality	_____
General Purpose	_____
Low Frequency	_____
High Frequency	_____
High Amplitude	_____
All Weather	_____
Community Noise Monitors	_____
Dosimeters	_____
Signal Processing	_____

VI. Summary of Acoustic Facilities (estimates of dimension or type)

<u>Facility</u>	<u>Dimensions/Type</u>
Audiometric Booth	_____
Anechoic Chamber	_____
Semireverberant Room	_____
Reverberation Room	_____
Scale Model Test Facilities	_____
Microphone Calibration	_____
Computers	_____
Unique Noise Computer Programs	_____

APPENDIX C
USER RESPONSE FORM

USER RESPONSE FORM

The Office of Noise Abatement and Control (ONAC) has published the Directory of Federal Laboratories and Research Facilities with Noise Capabilities as an aid to individuals working in noise research and control. To assist ONAC in other similar efforts, kindly complete and return the form below.

Name _____ Title _____

Agency _____ Facility _____

Address _____

Type of Activity You Are Involved in _____

Responding on behalf of above agency _____

Responding on behalf of an individual _____

1. Approximately how often is this directory used at your facility? _____
2. Has this directory provided new information not available to you elsewhere? _____
3. Which section of the Directory has been most helpful to you? _____
4. Which section of the Directory do you use the least? _____
5. In the space below, please note significant changes which have occurred in your facility that are not included in the Directory.

Cut here, fold, and staple

TECHNICAL REPORT DATA

(Please read Instructions on the reverse before completing)

1. REPORT NO. EPA 550/9-79-312		2.	3. RECIPIENT'S ACCESSION NO.	
4. TITLE AND SUBTITLE Directory of Federal Laboratories and Research Facilities with Noise Capabilities		5. REPORT DATE July 1979		6. PERFORMING ORGANIZATION CODE
		7. AUTHOR(S)		
9. PERFORMING ORGANIZATION NAME AND ADDRESS U. S. Environmental Protection Agency Office of Noise Abatement and Control Washington, D.C. 20460		10. PROGRAM ELEMENT NO.		11. CONTRACT/GRANT NO.
		12. SPONSORING AGENCY NAME AND ADDRESS		
		14. SPONSORING AGENCY CODE ANR-471		
15. SUPPLEMENTARY NOTES				
16. ABSTRACT This directory provides government officials and others a basic reference guide to various Federal laboratories and research facilities having noise research and/or noise testing capabilities. The Environmental Protection Agency is publishing it pursuant to its responsibilities under the Noise Control Act of 1972 (PL 92-574) and the Quiet Communities Act of 1978 (PL 95-609).				
17. KEY WORDS AND DOCUMENT ANALYSIS				
a. DESCRIPTORS		b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group	
Noise research, Federal laboratory acoustical capabilities				
18. DISTRIBUTION STATEMENT		19. SECURITY CLASS (This Report)		21. NO. OF PAGES
		20. SECURITY CLASS (This page)		22. PRICE

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