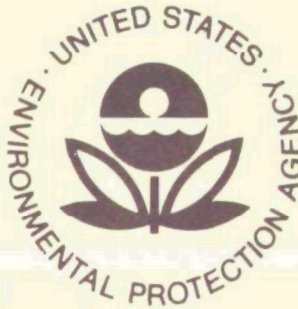


EPA NOISE CONTROL PROGRAM

PROGRESS TO DATE



March 1977

**U.S. Environmental Protection Agency
Washington, D.C. 20460**

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PROGRESS TO DATE



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INTRODUCTION

This booklet describes the progress EPA has made to date in accomplishing the mandated requirements of the Noise Control Act of 1972, which sets as its goal the promotion of an environment for all Americans free from noise that jeopardizes their health and welfare. Also included are EPA plans for future actions. The information is presented in a section-by-section format for ease of reference.

Progress is described for only those sections of the Act requiring definite outputs or major coordinating actions. Sections involving strictly administrative procedures are not treated.

Included at the back of the booklet is a listing of all available EPA publications along with the information necessary to obtain copies. Also, a mailing list application is included as the centerfold. If you think you may require future EPA noise documents, tear the form out carefully, fill it in and drop it in the mail.

One document that may be of particular interest is the National Noise Abatement Strategy drafted by EPA as a guide to a coordinated national program utilizing the talents and authorities of all segments of society to achieve a quieter America. For copies of that document and for more specific program information write:

Office of Noise Abatement and Control (AW471)
U.S. Environmental Protection Agency
Washington, D.C. 20460

You may also contact the EPA Noise representative in your nearest EPA regional office. A list of their names and addresses is provided.

Charles L. Elkins
Deputy Assistant Administrator for
Noise Control Programs

SECTION 4—FEDERAL PROGRAMS

Federal Facility Compliance with State and Local Noise Laws

Under this Section of the Act, each Federal agency is required to comply with Federal, State, interstate, and local noise control requirements.

EPA has taken actions to ensure such compliance on the part of Federal agencies. To date, EPA has developed formal administrative guidelines and directives in the following areas:

- Project reporting by agencies
- Inspection and monitoring of Federal facilities
- Exemptions of Federal facilities.

EPA also reviews the efforts of other agencies to assure compliance. This portion of EPA's responsibility is carried out under Executive Order 11752 and Office of Management and Budget Circular A-106, which outline a management role for the Agency in ensuring compliance with requirements concerning all forms of pollution at Federal facilities.

Federal Noise Program Coordination

Section 4 of the Act also requires EPA to coordinate all Federal noise research and control programs.

The Agency's objectives in fulfilling its coordination role are to ensure that

- Each Federal agency develops noise abatement policies and programs to the fullest extent possible.
- The policies and programs of Federal agencies operate in harmony with one another.

In discharging this major coordinating responsibility, EPA has

- Established four interagency noise research panels, whose reports are listed along with the other EPA publications. The panels have generated reports that examined Federal RD&D activities during the FY73-FY75 period to determine the contribution of these efforts to the control of noise and understanding of its effects. Research activities in the areas of noise effects, aircraft noise, surface vehicle noise, and machinery noise were reported. The panels were reactivated in 1976 to update the data base and to assess the contribution of the on-going and planned RD&D programs to meeting the long range goals of a national noise abatement and control program. A report on this subject will be published in 1977.
- Urged Federal agencies to adopt a uniform environmental noise descriptor (L_{dn}/L_{eq}). The Department of Defense has officially adopted the descriptor and is presently integrating it into its programs. The Federal Highway Administration has adopted L_{eq} as an alternate descriptor to L_{10} . Disposition of the issue with HUD awaits completion of a major study, although, in the interim, HUD will accept L_{dn} as a descriptor for aircraft noise. A modification to L_{dn} has been proposed by EPA to other agencies as an interim solution for measuring blast noise pending further refinement.
- Coordinated all EPA standard setting and rule making activities with other Federal agencies having expertise in the product or the area being regulated or that would be affected by the regulatory actions of EPA.
- Provided technical assistance upon request to other agencies.

Consultations

Other Federal agencies are required to consult with EPA before prescribing noise regulations. EPA may require public review of those regulations if the Agency determines the regulations do not sufficiently protect public health and welfare.

EPA has assisted other agencies by acting as a central clearinghouse for information, by lending equipment and by giving advice and consultation in developing effective noise assessment requirements as part of their programs. In addition EPA personnel are available to provide assistance in assessing individual projects of other agencies.

EPA has reviewed and commented upon the policies and regulations of such Federal agencies as DOT, HUD, DOC, and GSA. Regarding the pending decision on Federal occupational noise standards, EPA has strongly stated its case for a more stringent occupational noise standard than that proposed by OSHA (EPA 550/9-76-007).

The Agency's strong public stand for a more stringent standard is based on the conclusion, which was reached after extensive study of the standard proposed by OSHA, that substantial impairment to hearing would be prevented by a stricter standard and that such a standard is both technically feasible and economically reasonable.

Federal Status Report

As a major part of its coordination activity, EPA is required to report periodically on the status and progress of Federal noise control activities. In June 1975, the Agency issued the first of such comprehensive reports (550/9-75-023).

The 1975 report, which will be periodically updated, describes and discusses interrelationships among the noise programs of 38 Federal agencies in the following areas: standards and regulations, hearing conservation, noise abatement, and research, development and demonstration.

EIS Review

As a major part of its noise control effort, EPA reviews Environmental Impact Statements (EIS) submitted by other agencies. EIS review is carried out under the authority of the National Environmental Policy Act (NEPA) and Section 309 of the Clean Air Act.

NEPA requires agencies to prepare detailed statements of the environmental effects of their proposed major actions. The scope of "proposed major actions" now includes Federal funding, permitting, and regulating actions.

Pursuant to NEPA and to Section 309, EPA reviews about 1500 draft and 500 final statements per year. Statements in which noise is a factor are reviewed primarily in the EPA regional offices, with Headquarters providing guidelines, manuals, and technical assistance as required. Although not required to do so by law, EPA prepares EISs on certain of its own environmental regulatory activities, including noise emission regulations under the Noise Control Act.

In making its noise evaluations of other agency EISs, the Agency utilizes EPA noise criteria as well as standards of the agency preparing the EIS.

Interagency Agreements

EPA is receiving consulting and technical support in a number of program areas (e.g., health effects, measurement, monitoring) through agreements with other Federal agencies. EPA is currently working with the National Academy of Sciences Committee on Hearing, Bioacoustics, and Biomechanics (CHABA), the USAF Aeromedical Research Lab, the U.S. Army Construction Engineering Research Lab, the National Bureau of Standards, and the Department of Transportation.

Special Project and Demonstration Program

In assisting Federal agencies to utilize their authority for noise control, EPA has developed a two-part program for FY77 and FY78. The first part includes joint studies with other agencies to identify and evaluate potential noise control methods that could be incorporated in Federal projects. The second part is to demonstrate the feasibility and effectiveness, including costs, of incorporating such measures in specific projects. Results of such efforts will ultimately be incorporated in technical guides and manuals.

SECTION 5—IDENTIFICATION OF MAJOR SOURCES OF NOISE, NOISE CRITERIA, AND CONTROL TECHNOLOGY

Criteria and Levels Documents

Under this Section of the Act, EPA is required to publish two major documents: the “Criteria Document” and the “Levels Document.”

The “Criteria Document” (EPA 550/9-73-002) represents an appraisal of available knowledge relating to the health and welfare effects of noise.

The “Levels Document” (EPA 550/9-74-004) identifies levels of environmental noise requisite to protect the public health and welfare with an adequate margin of safety. In accordance with the Act, this document does not take economics and technology into account. However, it does provide helpful guidance in evaluating the benefits to be gained from noise abatement actions.

The agency is currently undertaking studies to supplement both of these major documents. These studies include work on: hearing loss, intrusive characteristics of noise, and effects of noise on the cardiovascular system.

Major Sources Identification

EPA is further required to publish reports identifying major sources of noise and to provide information on controlling noise from those sources.

Identification of a product as a major source of noise begins the 2-year regulatory process culminating in a noise emission regulation for new products, under Section 6 of the Act. The Agency has issued several separate identification documents. The first identification, published June 21, 1974, encompassed

- Portable air compressors
- Medium and heavy trucks

The second identification, published May 28, 1975, encompassed

- Wheel and crawler tractors (formerly wheel and track loaders, wheel and track dozers)
- Truck refrigerator units
- Truck-mounted solid waste compactors
- Motorcycles
- Buses.

The third identification document, published on January 12, 1977, cited power lawn mowers as major noise sources. The fourth identification document, identifying pavement breakers and rock drills, was published on February 3, 1977.

EPA now is conducting a number of pre-identification studies that will allow decisions to be made on a phased basis concerning identification of additional major sources of noise. Among the products now under study are automobiles and light trucks, tires, chainsaws, air conditioners, and earth moving equipment.

Cost and Technology Reports

EPA has published several cost and technology reports, which are noted in the list of EPA reports in the back of this brochure. As current programs move forward in the regulatory process, more such documents will be made available. Topics covered by the documents currently available are:

- Snowmobiles
- Lawn mowers

- Rail transit cars
- Interstate motor carriers
- Interstate rail carriers
- Medium and heavy trucks
- Portable air compressors.

SECTION 6—NOISE EMISSION STANDARDS FOR PRODUCTS DISTRIBUTED IN COMMERCE

EPA is authorized under this Section of the Act to promulgate noise standards for any products identified as major noise sources, which includes, but is not limited to, the following categories:

- Construction equipment
- Transportation equipment
(including recreational vehicles and related equipment)
- Motors and engines
(including any equipment of which an engine or motor is an integral part)
- Electrical or electronic equipment.

In addition to health and welfare effects, these standards must take technological feasibility and cost of compliance into account.

On January 14, 1976, the Agency published final regulations on newly manufactured portable air compressors. These regulations will have the effect of eliminating such compressors as a major source of construction site noise. The regulation, which sets a maximum noise level of 76 dBA at 7 meters, becomes effective January 1, 1978 for compressors with maximum rated capacity between 75 and 250 CFM, and July 1, 1978 for units exceeding 250 CFM.

On April 13, 1976 the Agency published noise regulations for medium and heavy trucks. These regulations will reduce the urban traffic noise impact for 97 million people. The new standard, which sets a maximum noise level of 83 dBA at 50 feet during maximum acceleration, becomes effective January 1, 1978. A maximum level of 80 dBA becomes effective January 1, 1982.

EPA is currently moving forward with regulatory programs concerning all of the other products identified as major sources under Section 5 of the Act (see list on page 9). Proposed standards for all products except those most recently identified will be published in the Federal Register in the spring of 1977.

Standards Development

The noise regulatory program strives to employ noise measurement methodologies, or "standards," that are accurate and repeatable, that provide ease of enforcement for EPA and that are cost-effective to the industries that must implement them. EPA policy is to adopt feasible measurement standards developed by voluntary standard-setting organizations and in general use. To this end, EPA's noise program has voting representation on the Acoustical Standards Planning Board of the American National Standards Institute (ANSI), and representatives on numerous technical working groups of such organizations as the Society of Automotive Engineers (SAE).

EPA participates in the activities of voluntary standards setting organizations after receipt of a formal request from the organization, and after determining that the organization's activities are compatible with EPA requirements.

On occasion, noise standards developed by voluntary organizations do not meet EPA noise regulatory requirements. In such cases EPA develops the requisite measurement methodology, requesting cooperation from and participation of technical experts from voluntary standards-setting and other organizations.

In early 1977, EPA initiated a program to evaluate alternative noise measurement procedures for light motor vehicles and to arrive at a methodology best suited to its regulatory purposes. This program is run in an operational setting near Tuscon, Arizona, where over 100 1977 model U.S. and foreign motor vehicles will be studied on a day-to-day basis.

SECTION 7—AIRCRAFT NOISE STANDARDS

Although aviation noise regulatory authority rests with the FAA, EPA is mandated to play a significant role in the aviation regulatory process. Under Section 7 of the Act, EPA is directed to prepare a comprehensive report on the problem of aircraft/airport noise and to submit regulatory proposals to the FAA.

Although EPA has no direct regulatory role, the Agency's actions under this Section of the Act do have a significant impact. The FAA is required to publish the EPA proposed regulations in the Federal Register within 30 days of receipt. Within 60 days after publication, the FAA is required to hold public hearings.

After those hearings, the FAA must either accept the EPA proposals or state in the Federal Register why the proposals were rejected.

If EPA believes that any FAA action regarding the EPA proposals does not adequately protect the public health and welfare, the Agency can request the FAA to publish a report in the Federal Register stating the basis behind any FAA decisions.

Report to Congress on Aircraft/Airport Noise

On July 27, 1973, EPA completed, as scheduled, the "Report to Congress on Aircraft/Airport Noise" (Senate Document 93-8). The report presented findings and recommendations in four major areas:

1. Adequacy of FAA flight and operational noise controls.
2. Adequacy of noise emission standards on new and existing aircraft, together with recommendations on the retrofitting and phaseout of existing aircraft.
3. Implications of identifying and achieving levels of cumulative noise exposure around airports.
4. Additional measures available to airport operators and local governments to control aircraft noise.

This report established the need for the submission of regulatory proposals by EPA to the FAA.

Submission of Proposed Rules to FAA

The proposals identified as necessary for EPA submission to the FAA can be grouped into three categories:

- **Source Regulations**

SST – Submitted 27 February 1975 (Future SSTs) (40 FR 14093)*

SST – Submitted 13 January 1976 (Present SSTs) (41 FR 6270)

Propeller Driven Small Airplanes – Submitted 6 December 1974 (40 FR 1061)

Retrofit – Submitted 28 January 1975 (40 FR 8218)

Fleet Noise Level – Submitted 28 January 1975 (40 FR 8222)

Modify FAR PART 36 – Submitted 1 October 1976 (41 FR 47358)

Short Haul – (Submission date indefinite)

- **Operational Regulations**

Approach and Landing (3) – Submitted 29 August 1975 (40 FR 44256)

Minimum Altitude – Submitted 6 December 1974 (40 FR 1072)

Takeoff – In preparation.

- **Airport Noise Regulatory Process – Submitted 22 October 1976 (41 FR 51522)**

*Federal Register issue and page number.

Hearings on all of the EPA proposals have been held. The FAA has accepted the EPA proposals concerning reduced flap approach and landing and retrofit, except for some minor provisions. The FAA has not yet taken any formal action on the EPA proposals pertaining to: future SSTs, present SSTs, FAR PART 36, or airports. The FAA has issued notices of decisions not to prescribe the EPA proposals pertaining to: propeller driven airplanes, except for some minor provisions; fleet noise level; two-segment visual approach and landing; two-segment instrument approach and landing; and minimum altitudes.

To assist in determining noise levels around airports, a prerequisite to compatible land use planning, the Environmental Protection Agency has developed a simplified and objective approach which is called the Airport Noise Evaluation Process. This process was designed for use by individuals who do not have an in-depth background in aircraft acoustics. The process utilizes information pertaining to airport operations and local demographic characteristics. In most cases, the EPA process can be used without the need for computers, using a workbook manual (Calculations of Day-Night Levels [L_{dn}] resulting from Civil Aircraft Operations) which EPA has developed.

SST Activities

EPA provided technicians and equipment to monitor the noise emissions of the initial Concorde 02 SST flights into Dulles International and Dallas, Fort Worth airports in September of 1973. The results of that monitoring exercise were published and are available (EPA 550/9-74-013).

In January 1976, EPA provided a detailed analysis of the issues associated with the applications of British Airways and Air France for Concorde SST flights to U.S. airports.

SECTION 8—PRODUCT LABELING

Under this Section, EPA is mandated to label any product

1. Emitting noise capable of adversely affecting the public health or welfare
2. Sold wholly or in part on the basis of its effectiveness in reducing noise.

A proposed rule to label hearing protectors will be published in 1977 along with general provisions for all future labeling regulatory actions. Studies are currently underway for the selection of household and other products warranting noise labeling consideration.

SECTION 14—RESEARCH, TECHNICAL ASSISTANCE AND PUBLIC INFORMATION

This Section of the Act provides EPA with the authority to

- Conduct and finance research
- Advise on training of noise control personnel and on selection and operation of noise abatement equipment
- Develop improved methods of measuring and monitoring noise.
- Prepare model State or local legislation for noise control
- Disseminate information to the public.

Conduct and Finance Research

In the area of noise effects, studies are being initiated concerning:

- Investigation of the effects of protracted noise exposure on blood pressure and heart rate using Rhesus monkeys
- Assessment of the relationship between annoyance and intrusiveness of noise sources
- Early detection of noise-induced hearing impairment
- Individual and community response to noise in areas away from airports and highways
- Assessment of subjective loudness and annoyance.

RD&D programs have been initiated with Purdue University and with the U.S. Department of Transportation. The Purdue program deals with identification of truck noise sources and engine enclosure investigations. The EPA/DOT program concerns development of several “quiet” truck configurations. Both programs are in support of future regulatory actions. Additional study programs may be identified as a result of the inter-agency noise panel reviews (see Section 4).

State and Local Technical Assistance

Assistance to State and local agencies is provided by both the headquarters staff and the 10 EPA regional offices, with the latter assuming the major role in this area. Efforts to date have concentrated on encouraging the development of State and local noise control programs to implement in-use and operational measures for immediate noise control benefits and to complement EPA regulatory efforts. Examples of these activities range from assisting the City of Philadelphia with planning and conducting a community noise measurement program to working with the City of Kansas City on the development of a noise ordinance and helping the State of Washington develop and implement a State noise control program.

EPA also surveys and assesses State and municipal environmental noise programs. In February 1975, EPA published "Noise Source Regulation in State and Local Noise Ordinances" (550/9-75-020), summarizing laws and ordinances stipulating specific decibel levels. In 1974, EPA surveyed 55 States and territories and 235 municipalities. The results of this survey are contained in "State and Municipal Noise Control Activities 1973-1974" (EPA 550/9-76-006). The next survey, to be conducted in 1977, will include a larger number of communities.

Advice on Training of Noise Control Personnel

EPA sponsors regional noise workshops to train State and local officials in all aspects of environmental noise. These workshops are administered by the EPA regional noise program personnel. EPA has conducted over 35 workshops in various locations throughout the country, educating an estimated 1,500 persons.

To further assist State and local noise programs, EPA published "Guidelines for Developing a Training Program in Noise Survey Techniques" (EPA 550/9-75-021) in July 1975.

Advice on Selection and Operation of Noise Abatement Equipment

EPA also advises State and local governments on types and uses of sound measurement and analysis instruments. Sound level meters and other types of equipment are available for loan to States and localities through the EPA regional noise offices. EPA also evaluates instruments such as sound level meters and community noise monitoring systems.

Development of Improved Methods for Measuring and Monitoring Noise

EPA is developing a community noise monitoring and assessment manual. This manual is designed to provide local community officials with uniform guidelines for the design and implementation of a community monitoring program.

Preparation of Model State and Local Legislation

Both a Model Community Noise Control Ordinance (EPA 550/9-76-003) and model State noise control enabling legislation have been developed by EPA. The model State law was developed in cooperation with the Council of State Governments and was published by them in 1974. As a complement to the model community ordinance, EPA is preparing a code of recommended practices concerning sound measurement equipment and procedures.

Dissemination of Public Information

A major public information effort was launched in 1976 with the opening of an environmental noise exhibit. The exhibit, designed to stimulate the audience's awareness of noise and its effects, is now on permanent display in Chicago at the Museum of Science and Industry.

The list of available EPA noise documents at the back of this publication attests to the Agency's vigorous program of information dissemination. The list contains 91 EPA entries and does not include several major documents in preparation as of this writing. EPA plans to substantially increase its public information program in FY77 and FY78.

SECTION 15—LOW NOISE EMISSION PRODUCTS

On February 13, 1974, EPA issued certification procedures for low-noise emission products to be purchased by the Federal government. Since these procedures apply only to products for which a new product regulation was issued under Section 6, no program could be initiated prior to promulgation of the first new product regulation. EPA is now implementing a comprehensive program concerning low-noise emission products.

In the spring of 1977, EPA will propose regulations implementing Section 15 of the Act by establishing criteria for determining if a product will qualify as a low noise emission product. Also being established are the specific LNEP levels for new medium and heavy trucks and portable air compressors, products that are now subject to EPA noise rules.

SECTION 17—RAILROAD NOISE EMISSION STANDARDS

Under this Section of the Act, EPA promulgated on December 31, 1975, regulations setting specific maximum in use noise standards applicable to trains operated by inter-state rail carriers.

The standards, which are measured at 100 feet perpendicular to the center line of the truck, are:

- | | |
|---|---|
| <ul style="list-style-type: none">● (Effective December 31, 1976)
Locomotives
(Best maintenance)
73 dBA at idle
93 dBA stationary at all
other throttle settings
96 dBA moving at any speed | <ul style="list-style-type: none">● (Effective December 31, 1979)
Locomotives
(Newly manufactured)
70 dBA at idle
87 DBA stationary at all other
throttle settings
90 dBA moving at any speed |
| <ul style="list-style-type: none">● (Effective December 31, 1976)
Rail cars
88 dBA at speeds up to and including 45 mph
93 dBA at speeds greater than 45 mph | |

A detailed background study report (550/9-76-005) on railroad noise was prepared as a part of the rule making process.

The Department of Transportation, through the Federal Railroad Administration, is responsible for the enforcement of this regulation. Proposed compliance procedures will be published in the Federal Register in the near future.

SECTION 18—MOTOR CARRIER NOISE EMISSION STANDARDS

On October 29, 1974, EPA promulgated regulations setting specific maximum in-use noise standards applicable to vehicles over 10,000 pounds Gross Vehicle Weight Rating (GVWR) operated by interstate motor carriers. This regulation will lessen the noise impact for approximately 10 million people. The standards are:

- 88 dBA stationary runup
- 86 dBA up to and including 35 mph
- 90 dBA over 35 mph

Publications Mailing List Application



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

**OFFICE OF NOISE ABATEMENT AND CONTROL
WASHINGTON, D.C. 20460**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Noise Abatement and Control
Washington, D.C. 20460

MAILING LIST APPLICATION

TO BE COMPLETED BY APPLICANT/ONAC (One letter/number per block. Do not use periods, commas or etc.)

C	1	INITIALS	LAST NAME	TITLE
A	2	ORGANIZATION (If applicable)		
R	3	STREET ADDRESS OR P.O. BOX NO.		
D	4	CITY	STATE	ZIP/POSTAL CODE
CHECK APPLICABLE BOX(ES)				
<input type="checkbox"/> N—New Application <input type="checkbox"/> C—Change Name/Address <input type="checkbox"/> D—Delete Name/Address <input type="checkbox"/> A—Add Area of Interest Code(s) <input type="checkbox"/> D—Delete Area of Interest Code(s)				
PREVIOUS NAME/ADDRESS (If changed)				DATE OF APPLICATION

PROCEED TO PAGE 2 AND COMPLETE APPROPRIATE SECTIONS.

FOR EPA USE ONLY (Do NOT write in this space)	
ORIGINATOR (Name)	TELEPHONE NO.
REMARKS	
AUXILIARY CODE – Mark an "X" in the appropriate auxiliary code box(es)	
<div><input checked="" type="checkbox"/> 01 <input type="checkbox"/> 02 Press Release <input type="checkbox"/> 03 Advance Notice of Proposed Rule Making (ANPRM) <input type="checkbox"/> 04 Notice of Proposed Rule Making (NPRM) <input type="checkbox"/> 05 Final Regulation <input type="checkbox"/> 06 Background Documents <input type="checkbox"/> 07 Economic Impact Analysis <input type="checkbox"/> 08 Environmental Impact Statement</div> <div><input type="checkbox"/> 09 Technical Reports (other than R&D) <input type="checkbox"/> 10 R&D Reports <input type="checkbox"/> 11 Guidelines/Manuals <input type="checkbox"/> 12 Federal Noise Program Reports <input type="checkbox"/> 13 Educational Materials/General Brochures <input type="checkbox"/> 14 RFP's <input type="checkbox"/> 15 _____</div>	
ADDRESSEE ADDED BY – Check one	
<input type="checkbox"/> 20 DAA's Office <input type="checkbox"/> 21 Division NO.1 <input type="checkbox"/> 22 Division NO.2 <input type="checkbox"/> 23 Division NO.3	
SIGNATURE (Project Officer Approval)	DATE

FOR GSA USE ONLY (Do NOT write in this space)																				
Doc. ID	Mail List	Yr.	Mo.	Day	AGENCY IDENTIFICATION NUMBER										Ø CARD ONLY					
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TO BE COMPLETED BY APPLICANT/ONAC

ORGANIZATION TYPE (Check one that applies)

FEDERAL GOVERNMENT

- ☐ 0101 Advisory Board
- ☐ 0102 Intra-agency Review Office
- ☐ 0103 Interagency Review Office
- ☐ 0104 Federal Agency/Bureau
- ☐ 0105 Regional EPA Office
- ☐ 0106 EPA Headquarters Office
- ☐ 0107 Member of Congress
- ☐ 0108 Congressional Staff
- ☐ 0109 Foreign Government
- ☐ 0110 _____

STATE-LOCAL GOVERNMENT

- ☐ 0201 Official of State Government
- ☐ 0202 Official of Local Government
- ☐ 0203 _____

PROFESSIONAL ASSOCIATION

- ☐ 0301 Official of National Association
- ☐ 0302 Member of National Association
- ☐ 0303 Official or Member of State/
Local Association
- ☐ 0304 _____

TRADE ASSOCIATION

- ☐ 0401 Official of National Association
- ☐ 0402 Member of National Association
- ☐ 0403 Official or Member of State/
Local Association
- ☐ 0404 _____

NEWS MEDIA

- ☐ 0501 Columnists and Writers
- ☐ 0502 Newspapers/Newsletters
- ☐ 0503 Magazines and Journals
- ☐ 0504 Radio/TV
- ☐ 0505 _____

BUSINESS/INDUSTRY

- ☐ 0601 Component Parts Manufacturing
- ☐ 0602 End Product Manufacturing
- ☐ 0603 End Product Wholesale/Retail
- ☐ 0604 End Product User
- ☐ 0605 End Product Leasing/Renting
- ☐ 0606 End Product Maintenance/Repair
- ☐ 0607 Consulting/Planning Firm
- ☐ 0608 Law Firm
- ☐ 0609 Airport Proprietor
- ☐ 0610 _____

EDUCATIONAL INSTITUTION

- ☐ 0701 University/College
- ☐ 0702 High School
- ☐ 0703 Vocational
- ☐ 0704 _____

OTHER

- ☐ 0801 Public Interest/
Environmental Group
- ☐ 0802 International Organization
- ☐ 0803 Library
- ☐ 0804 Concerned Private Citizen
- ☐ 0805 Insurance Firms
- ☐ 0806 _____

AREA OF INTEREST (Check appropriate areas)

GENERAL AREAS

- ☐ 0101 Available Technology
- ☐ 0102 Enforcement
- ☐ 0103 Measurement Methodologies
- ☐ 0104 Useful Life
- ☐ R105 Special Local Conditions - Railroad
- ☐ M105 Special Local Cond. - Mtr. Carrier
- ☐ 0106 Public Health and Welfare Effects
- ☐ 0107 State/Local Ordinances
- ☐ 0108 Land-use
- ☐ 0109 Instrumentation for Dynamic
Measurements
- ☐ 0110 Hearing Protection Devices
- ☐ 0111 Audiometric Testing Equipment
- ☐ 0112 Loud Speakers
- ☐ 0113 Warning Systems
- ☐ 0114 Sonic Booms
- ☐ 0115 Aviation Noise
- ☐ 0116 Blast Noise
- ☐ 0117 Mining Noise
- ☐ 0118 Construction Site Noise
- ☐ 0119 Highway Noise
- ☐ 0120 Power Plant Noise
- ☐ 0121 Sports Arena Noise
- ☐ 0122 Labeling
- ☐ 0123 _____

AIRPORTS

- ☐ 0201 Commercial
- ☐ 0202 General Aviation
- ☐ 0203 Military
- ☐ 0204 Operating Procedures
- ☐ 0205 _____

AIRCRAFT

- ☐ 0301 Conventional Subsonic
- ☐ 0302 Conventional Supersonic
- ☐ 0303 R/STOL
- ☐ 0304 VTOL
- ☐ 0305 Operating Procedures
- ☐ 0306 _____

SURFACE TRANSPORTATION

- ☐ 0401 Railroads
- ☐ 0402 Medium/Heavy Trucks
- ☐ 0403 Light Trucks and Pickups
- ☐ 0404 Specialty Trucks
- ☐ 0405 Buses
- ☐ 0406 Guided Mass Transit
- ☐ 0407 Automobiles
- ☐ 0408 Motorcycles
- ☐ 0409 Interstate Motor Carrier
- ☐ 0410 Tires
- ☐ 0411 _____

CONSTRUCTION EQUIPMENT

- ☐ 0501 Earthmoving Equipment
- ☐ 0502 Road Building Equipment
- ☐ 0503 Materials Handling Equipment
- ☐ 0504 Stationary Equipment
- ☐ 0505 Impact Equipment
- ☐ 0506 Rotary Equipment
- ☐ 0507 Pneumatic/Hydraulic
Power Source
- ☐ 0508 _____

INTERNAL COMBUSTION ENGINE POWERED PRODUCTS

- ☐ 0601 Lawn and Garden Care
- ☐ 0602 Chainsaws
- ☐ 0603 Pumps and Generators
- ☐ 0604 Snow Blowers
- ☐ 0605 _____

ELECTRICAL/ELECTRONIC POWERED PRODUCTS

- ☐ 0701 Shop Tools
- ☐ 0702 Air Moving Equipment
- ☐ 0703 Air Conditioners
- ☐ 0704 Electric Lawn and Garden
Care Equipment
- ☐ 0705 Stereo/HiFi Equipment
- ☐ 0706 Hair Conditioning Equipment
- ☐ 0707 Vacuum Cleaners
- ☐ 0708 Pumps and Generators
- ☐ 0709 Transformers/Power Station
Equipment
- ☐ 0710 _____

GENERAL HOME APPLIANCES

- ☐ 0801 Food Disposals
- ☐ 0802 Dishwashers
- ☐ 0803 Clothes Washers
- ☐ 0804 Clothes Dryers
- ☐ 0805 Garbage Compactors
- ☐ 0806 Kitchen Appliances
- ☐ 0807 _____

INDUSTRIAL MACHINERY

- ☐ 0901 Printing Equipment
- ☐ 0902 Textile Equipment
- ☐ 0903 Agriculture Equipment
- ☐ 0904 Mining Equipment
- ☐ 0905 Wood Forming Equipment
- ☐ 0906 Chemical Processing Equipment
- ☐ 0907 Surface Finishing Equipment
- ☐ 0908 Metal Forming
- ☐ 0909 _____

RECREATIONAL AND ENTERTAINMENT PRODUCTS

- ☐ 1001 Snowmobiles
- ☐ 1002 Motorboats
- ☐ 1003 Off road Vehicles
- ☐ 1004 Toys
- ☐ 1005 _____

☐ 0ALL ALL NOISE AREAS

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**OFFICE OF NOISE ABATEMENT AND CONTROL
WASHINGTON, D.C. 20460**

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APPLICATION**

The regulation also requires vehicle exhaust systems not to be defective and bans the use of noisy tires on vehicles subject to the regulation.

Present plans call for revising these in-use standards to require new trucks meeting the more stringent new product standards promulgated under Section 6 to continue to meet more stringent levels while in use.

The Department of Transportation's Bureau of Motor Carrier Safety (BMCS) is responsible for enforcement of this regulation. BMCS issued compliance regulations on September 12, 1975. BMCS and several States and localities are now enforcing these regulations.

STUDIES AND SPECIAL PROJECTS

A document of major importance is the National Noise Abatement Strategy, which was published for comment in October of 1976 and is now being revised for publication in the spring of 1977. This general strategy will form the basis for specific program strategies in surface transportation noise and construction noise that will be developed in 1977.

EPA is also heavily involved in developing industry-forecasting models, decision-making analyses, and methodology for determining the economic benefits of noise abatement.

ENFORCEMENT

The Noise Enforcement Division was established on April 30, 1976 under the EPA Office of Enforcement. The new Division's responsibilities include development and implementation of enforcement regulations requiring testing, record keeping, reporting, and any necessary remedial actions by manufacturers of new products for which standards or labeling requirements are prescribed under Sections 6 and 8 of the Noise Control Act. In addition, the Division will assist EPA regions, States and localities in enforcing Federal noise control standards and regulations and in designing and enforcing supplementary State and local controls.

The primary Federal enforcement strategies to be applied to new products are:

- Production verification testing of initial representative products at the assembly line.
- Statistical sampling and testing of new products at the assembly line.
- Manufacturer's time-of-sale warranty.
- Tampering prohibitions.
- Maintenance instruction requirements.
- Administrative orders including recall of noncomplying products.

Regulations to implement these strategies have been promulgated for medium and heavy trucks and portable air compressors, for which noise standards become effective in 1978. Production verification for those products will begin in late 1977.

Noise enforcement testing will be conducted at the new EPA Noise Enforcement Facility, located in Sandusky, Ohio. The facility is equipped with a low-speed passby test track and a stationary runup pad for testing trucks and compressors, respectively. In addition, two mobile testing units have been developed to perform sophisticated noise testing anywhere in the country. These testing facilities will be used to conduct EPA tests on regulated products, to monitor and correlate a manufacturer's compliance testing, and to train EPA regional, State, and local personnel for noise enforcement.

INTERNATIONAL ACTIVITIES

EPA performs a number of important noise related functions on the international level. These activities are conducted on both an ad hoc basis and as part of a continuing international effort toward reducing environmental noise and harmonizing the efforts of individual countries. This is particularly important since products made in one country may have a very significant impact on the noise environment in another country.

EPA has participated in ad hoc noise activities of the following international groups:

- World Health Organization
- NATO
- US-USSR Working Group on the Enhancement of the Urban Environment
- International Organization for Standardization.

A major on-going EPA activity is the Agency's participation in the efforts of the International Civil Aviation Organization (ICAO). The Agency, through its official representative provides recommendations on international aviation matters, exchanges views on environmental considerations, and reviews and recommends aircraft noise standards.

EPA is also a major participant in the noise activities of the Paris-based Organization for Economic Cooperation and Development (OECD). EPA is the lead U.S. agency in the noise area, with its representative acting as the official U.S. delegate to the International Ad Hoc Group on Noise, which is chaired by another EPA official. The OECD mission concerning noise is to:

- Establish a basis for international harmonization of noise standards
- Establish a basis for international development of technical and economic criteria
- Study various measurement indices.

An EPA noise official is currently chairman of an international noise task group under the U.N. Economic Commission for Europe in Geneva, Switzerland. The task force is examining and exchanging information on environmental noise problems and control measures and appropriate research activities.

EPA noise officials also participate in:

- The cooperative environment program of the Commission of European Communities, in Brussels, Belgium.
- Planning for the third International Congress on Biological Effects of Noise to be held in Freiburg, Germany in May 1978.

MONITORING PROGRAM

EPA has initiated a noise monitoring effort having two primary facets—environmental trend monitoring and specific source monitoring. As presently planned, both the trend and source-specific monitoring will be carried out at national and local levels. At each level, the environment (geographic location) and personal exposure will be examined through physical noise measurements and social surveys. The Agency anticipates that the trend monitoring effort will:

- Establish a baseline from which to assess changes in the noise environment
- Determine the population at risk
- Establish standard methods and procedures for quality assurance and comparability of data
- Provide assistance to States and municipalities in assessing the success of their noise control programs.

Source-specific monitoring is primarily designed to support the EPA regulatory development process.

Measurement of Stationary Noise Sources

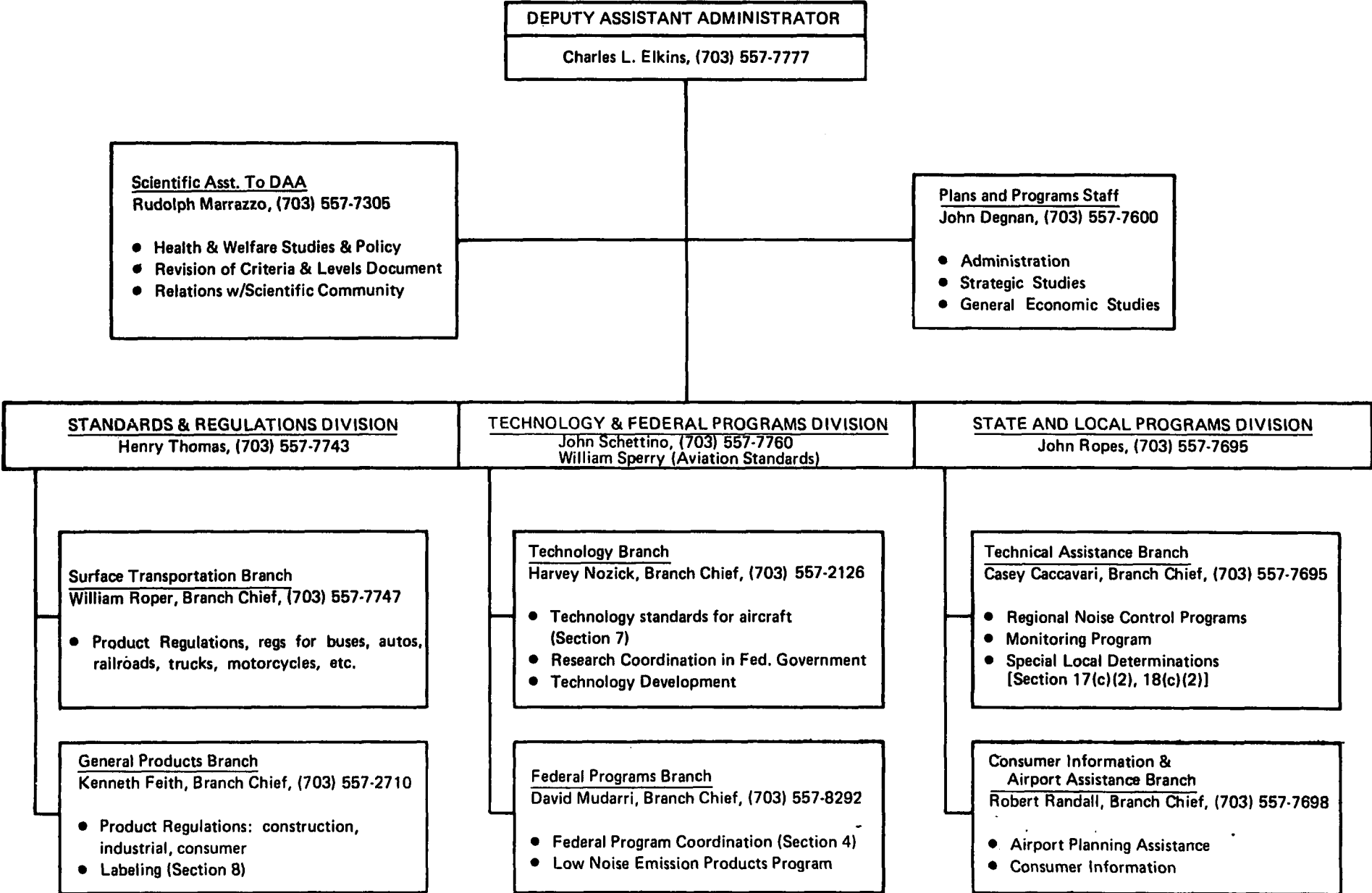
The Agency recently conducted a study to determine an accurate statistical/manual sampling technique to be used for the measurement of stationary noise sources. The objective is to recommend measurement methodologies, procedures, and instrumentation

suitable for enforcement of various types of ordinance provisions that set property line sound limits. This study will also be used in supporting a model code of recommended enforcement practices.

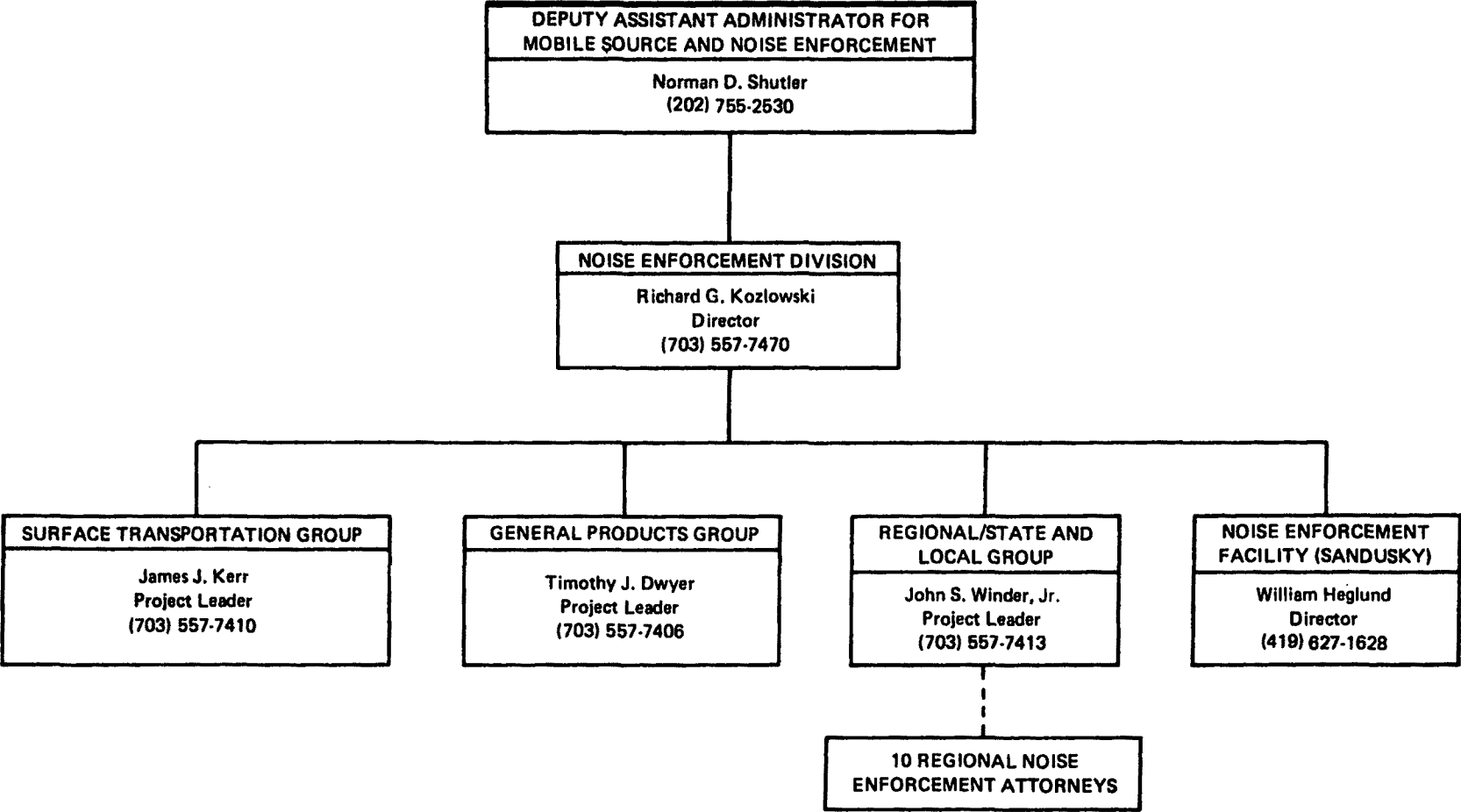
Study of Interior Noise Levels for Transportation Systems

To determine the extent to which noise environments of enclosed transportation systems represent a risk to passenger health, an analysis was made of information collected by past transportation studies as well as new data gathered for this project. EPA anticipates that the recent study results (EPA 550/9-75-025) will assist State and municipal agencies in setting noise specifications for the purchase of transportation equipment. Data developed in this study will be one element in assessing the impact of community noise on individuals over a 24-hour period. EPA is planning to set interior noise level standards on certain products, such as newly manufactured buses, at the Federal level.

OFFICE OF NOISE ABATEMENT AND CONTROL ORGANIZATION CHART



EPA NOISE ENFORCEMENT



EPA REGIONAL NOISE REPRESENTATIVES

EPA Region	States	Address	Noise Representatives
I	Maine, N.H., Vt., Mass., R.I., Conn.	JFK Building Room 2113 Boston, Mass. 02203	Mr. Al Hicks (617/223-5708)
II	N.Y., N.J., P.R., V.I.	26 Federal Plaza Room 907G New York, N.Y. 10007	Mr. Tom O'Hare (212/264-2109)
III	Pa., Md., Del., W. Va., Va., D.C.	Curtis Building Room 225 6th & Walnut Sts. Philadelphia, Pa. 19106	Mr. Patrick Anderson (215/597-9118)
IV	N.C., S.C., Tenn., Ky., Miss., Ga., Fla., AL	354 Courtland St., N.E. Atlanta, Ga. 30308	Dr. Kent Williams (404/881-4861)
V	Wisc., Ill., Mich., Ohio, Ind., Mn.	230 S. Dearborn Chicago, Ill. 60604	Mr. Horst Witschonke (312/353-2205)
VI	N. Mex., Okla., Ark., La., Tex.	1600 Patterson St. Room 1107 Dallas, Texas 75201	Mr. Mike Mendias (214/749-3837)
VII	Nebr., Kans., Iowa Mo.	1735 Baltimore St. Kansas City, Mo. 64108	Mr. Vincent Smith (816/374-3307)
VIII	Mont., N. Dak., S. Dak., Wyo., Utah, Colo.	1860 Lincoln St. Suite 900 Denver, Colo. 80203	Mr. Robert Simmons (303/337-2221)
IX	Calif., Nev., Ariz., Hawaii	100 California St. San Francisco, Calif. 94111	Dr. Richard Procunier (415/556-4606)
X	Wash., Oreg., Idaho Alaska	1200 Sixth Avenue Room 11C Seattle, Wash. 98101	Ms. Deborah Yamamoto (206/442-1253)

NOISE DOCUMENTS

The following “noise” technical documents, unless otherwise noted, are for sale by the *National Technical Information Service (NTIS)*, U.S. Department of Commerce, 425 13th Street, N.W., Room 620, Washington, D.C. 20004 (Phone: 202/296-4348) or from the Superintendent of Documents, U.S. Government Printing Office (GPO) Washington, D.C. 20402 (Phone: 202/783-3238).

The documents are grouped into the areas of:

- Reports to Congress
- Health and Welfare
- Noise Monitoring
- Surface Transportation
- Aviation
- Construction
- State and Local Noise Control
- Federal Programs
- Regional
- Other

TITLE	NTIS DOCUMENT NO.
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Report to the President and Congress on Noise - December 31, 1971	PB-206716
Report on Aircraft-Airport Noise (Senate Document 93-8) - August 1973	AVAILABLE AT GPO
First Report on Status and Progress of Noise Research and Control Programs in the Federal Government - June 1975	PB-243447/AS Vol. I PB-243448/AS Vol. II
<u>Health and Welfare</u>	
Noise from Industrial Plants December 1971	PB-206718
Community Noise - December 1971	PB-207124
Effects of Noise on Wildlife and Other Animals - December 1971	PB-206720
Effects of Noise on People December 1971	PB206723
Social Impact of Noise - December 1971	PB-206724
The Effects of Sonic Boom and Similar Impulsive Noise on Structures December 1971	PB-206725
Economic Impact of Noise December 1971	PB-206726

TITLE	NTIS DOCUMENT NO.
Physiological and Psychological Effects, Boston, Massachusetts October 28-29, 1971, Vol. VII*	AVAILABLE AT EPA ONAC and GPO #5500-0056 (\$1.50)
Relation Between Daily Noise Exposure and Hearing Loss Based on the Evaluation of 6,835 Industrial Noise Exposure Cases - June 1973	AD-767204
A Scientific Basis for Limiting Noise Exposure for Purposes of Hearing Conservation - July 19, 1973	AD-767274
Prediction of NIPTS Due to Continuous Noise Exposure July 19, 1973	AD-767205
Public Health and Welfare Criteria for Noise - July, 1973	PB-241000/AS
Proceedings of the International Congress on Noise as a Public Health Problem, Dubrovnik, Yugoslavia May 13-18, 1973	PB-241060/AS ALSO AVAILABLE AT EPA
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*EPA Public Hearings

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Some Considerations in Choosing an Occupational Noise Exposure Regulation	PB-251408
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Fundamentals of Noise Measurement Rating Schemes, and Standards December 1971	PB-206727
Standards and Measurements Methods, Legislation and Enforcement Problems, San Francisco, California September 27-29, 1971, Vol. IV*	AVAILABLE AT GPO
Evaluation of Commercial Intergrating-Type Noise Exposure Meter December 1973	COM-74-104-77
The Design of a Low Cost Sound Level Meter - April 1974	AB-783808

*EPA Public Hearings

TITLE	NTIS DOCUMENT NO.
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Transportation Noise and Noise from Equipment Powered by Internal Combustion Engines December 1971	PB-208660
Manufacturing and Transportation Noise (Highway & Air) - Chicago, Illinois - July 28-29, 1971, Vol. II*	AVAILABLE AT GPO
Transportation Noise (rail and other); Urban Noise Problems and Social Behavior, New York, New York October 28-29, 1971, Vol. VI*	AVAILABLE AT GPO
Control of Snowmobile Noise (Vol. I) Technology and Cost Information June 1973	AVAILABLE AT EPA

*EPA Public Hearings

TITLE	NTIS DOCUMENT NO.
Measurements of Railroad Noise-Line Operations, Yard Boundaries, and Retarder - December 1974	COM-75-10088
NPRM on Special Local Determinations (Sec. 17 & 18) and Guidelines for State and Local Governments on the Filing and Processing of Applications for Preemption Waiver Determinations November 1976	AVAILABLE AT EPA
Background Document for Interstate Motor Carrier Noise Emission Regulations - October 1974	PB-242554/AS
Environmental Noise Measurements on Interstate 57 During and After Truck Strike - June 1974 (USA Const. Engrg. Research Lab)	AVAILABLE AT EPA
Noise in Rail Transit Cars: Incremental Costs of Quieter Cars - June 1974	PB-234992/AS
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Background Document for Railroad Noise Emission Standards December 1975	PB-251713
Background Document for Medium and Heavy Truck Noise Emission Regulations - March 1976	AVAILABLE AT EPA
Noise and Recreational Vehicles Noise on Wheels	AVAILABLE AT EPA

TITLE	NTIS DOCUMENT NO.
<u>Aviation</u>	
The Effects of Sonic Boom and Similar Impulsive Noise on Structures December 1971	PB-206725
Legal and Institutional Analysis of Aircraft and Airport Noise and Appor- tionment of Authority Between Federal, State, and Local Government July 1973	PB-225149/4AS
Report on Operations Analysis Including Monitoring, Enforcement, Safety, and Cost - July 1973	PB-225150/2AS
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Review and Analysis of Present and Planned FAA Noise Regulatory Actions and Their Consequences Regarding Aircraft and Airport Operations - July 1973	PB-224405/AS
Military Aircraft and Airport Noise and Opportunities for Reduction Without Inhibition of Military Missions - July 1973	PB-223637/AS
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Civil Aviation Studies and Interagency Coordinating Organizations (Vol. I) December 1974	PB-239344/AS

TITLE	NTIS DOCUMENT NO.
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Noise Standards for Aircraft Type Certification (Modification to FAR Part 36) - August 1976	PB-262401/AS
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PB-206717

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PB-206719

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PB-208659

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and Noise in the Home - Dallas, Texas
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PB-230065

Technology and Economics of Noise
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*EPA Public Hearings

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State and Municipal Noise Control Activities, 1973-1974 - January 1976	PB-251999

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TITLE	NTIS DOCUMENT NO.
An Assessment of the Federal Noise Research, Development and Demonstration Activities: FY73-FY75	PB-246894/LK
EPA Guidance for Inspection of Federal Facilities for Compliance with Noise Abatement Standards	
<u>Other</u>	
An Assessment of Noise Concern in Other Nations - December 1971	PB-206721 (Vol. I) PB-206722 (Vol. II)
Noise Programs of Professional/Industrial Organizational, Universities and Colleges - December 1971	PB-207125
Soviet Noise Research Literature From the F. F. Erisman Scientific Research Institute for Hygiene, Moscow, USSR April 1974	PB-235086/T
Lawn Mowers: Noise and Cost of Abatement - June 1974	PB-234932/AS
1976 Reassessment of Noise Concerns of Other Nations (Vol. I - Summary of Selected Topics)	PB-259923
1976 Reassessment of Noise Concerns of Other Nations (Vol. II - Country by Country Reviews)	PB-259924
University Noise Research Proceedings of EPA - University Noise Seminar October 18-20, 1976	Being Processed By NTIS

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Environmental Noise Assessment - City of Grand Prairie, Texas, 1973 (Region VI – Dallas)	AVAILABLE AT EPA REGION VI - DALLAS