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EPA NOISE CONTROL PROGRAM

PROGRESS TO DATE



February 1977

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

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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 mall.

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 (Ldn/Leq). The Department of Defense has officially adopted the descriptor and is presently integrating it into its programs. The Federal Highway Administration has adopted Leq as an alternate descriptor to L10. Disposition of the issue with HUD awaits completion of a major study, although, in the interim, HUD will accept Ldn as a descriptor for aircraft noise. A modification to Ldn 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 consulation 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 OSIIA (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 OSIIA, 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 critieria as well as standards of the agency preparing the EIS.

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
- Motors and engines
- Electrical and 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 6). Proposed standards for all products except those most recently identified will be published in the Federal Register in the spring of 1977.

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.
- Adequacy of noise emission standards on new and existing aircraft, together with recommendations on the retrofitting and phaseout of existing aircraft.
- Implications of identifying and achieving levels of cumulative noise exposure around airports.
- 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 [Ldn] 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 O2 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 interagency 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 interstate rail carriers.

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

- (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
- (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
- (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 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 program provides Federal enforcement of new product emission standards promulgated by EPA and enforcement-related assistance to the States and localities. The Noise Enforcement Test Facility at Sandusky, Ohio, provides the necessary Federal testing capability to support the noise enforcement program.

In 1975, emphasis was placed on locating and developing a noise test facility site and developing policy and regulations for achieving compliance with Federal noise standards and labeling requirements for new products. Activities included promulgation of regulations for implementing the enforcement strategy for new product noise emission standards (medium and heavy trucks and portable air compressors) and development of the strategy for Federal enforcement of standards related to the products in use, such as the anti-tampering provisions.

The new product noise emission standards for medium and heavy tracks and portable air compressors will be effective in 1978. These standards are enforced as soon as manufacturers notify EPA that they wish to begin production verification. Manufacturers have indicated that they desire the flexibility to verify production models before the regulations are effective. This verification will require evaluation and monitoring by EPA and will begin in 1977.

Publications Mailing List Application



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF NOISE ABATEMENT AND CONTROL WASHINGTON, D.C. 20180

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF NOISE ABATEMENT AND CONTROL WASHINGTON, D.C. 20460

OFFICIAL DUBINESS PENALTY FOR PRIVATE USE, \$300



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MAILING LIST APPLICATION

The strategy for enforcement of new product noise emission standards for medium and heavy trucks and portable air compressors consists of two parts: (1) auditing noise emission performance of new products, and (2) production verification.

As already mentioned, noise standards for railroads and interstate motor carriers, promulgated under Sections 17 and 18, respectively, are enforced by the Department of Transportation.

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.

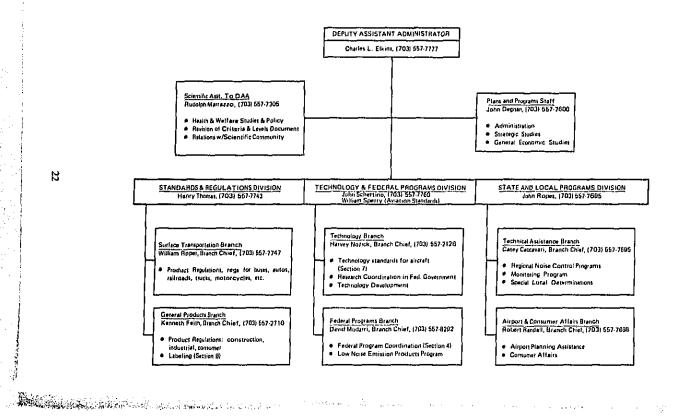
Study of Interior Noise Levels for Transportation Systems

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 buses, at the Federal level.

OFFICE OF NOISE ABATEMENT AND CONTROL ORGANIZATION CHART

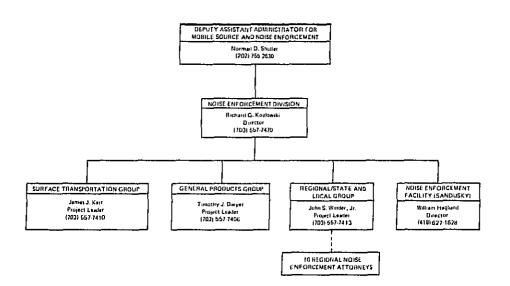
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EPA NOISE ENFORCEMENT

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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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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
Health and Welfare	
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Community Noise - December 1971	PB-207124
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Social Impact of Noise - December 1971	PB-206724
The Effects of Sonic Boom and Similar Impulsive Noise on Structures December 1971	РВ-206725
Economic Impact of Noise December 1971	PB-206726

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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

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A Scientific Basis for Limiting Noise Exposure for Purposes of Hearing Conservation - July 19, 1973

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Prediction of NIPTS Due to Continuous Noise Exposure July 19, 1973

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PB-241060/AS

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PB-245409/AS

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TITLE	NTIS DOCUMENT NO.
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Information on FAA Certification of Aircraft - January 1975	PB-242583/AS
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and Noise in the Home - Dallas, Texas August 18-19, 1971, Vol. III* Technology and Economics of Noise

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Model Community Noise Control Ordinance - September 1975	AVAILABLE AT EPA Public Information Center (PM215)
State and Municipal Noise Control Activities, 1973-1974 - January 1976	PB-251999
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Federal Surface Vehicle Noise Research, Development, and Demonstration Programs: FY73-FY75	PB-241887/LK
Federal Aircraft Noise Research, Development, and Demonstration Programs: FY73-FY75	PB-244904/LK
Federal Machinery Noise Research, Development, and Demonstration Programs, FY73-FY75	PB-243523/LK
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EPA Guidance for Inspection of Federal Facilities for Compliance with Noise Abatement Standards

Other

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
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University Noise Research Proceedings of EPA - University Noise Seminar October 18-20, 1976	AVAILABLE AT EPA ONAC

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AVAILABLE AT EPA REGION VI - DALLAS

Environmental Noise Monitoring at Three Sites in Irving, Texas February 1975 (Region VI)

PB-242567

Environmental Noise Assessment -City of Grand Prairie, Texas, 1973 (Region VI — Dallas)

AVAILABLE AT EPA REGION VI - DALLAS

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)
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111	Pa., Md., Del., W. Va., Va., D.C.	Curtis Building Room 225 6th & Walnut Sts, Philadelphia, Pa. 19106	Mr. Patrick Anderson (215/597-9118)
ıv	N.C., S.C., Tenn., Ky., Miss., Ga., Fla., Al.	354 Courtland St., N.E. Atlanta, Ga. 30308	Dr. Kent Williams (404/881-4861)
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ıx	Calif., Nev., Ariz., Hawaii	100 California St. San Francisco, Calif. 94111	Dr. Richard Procunier (415/556-4606)
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