

EPA NOISE CONTROL PROGRAM

PROGRESS TO DATE



May 1976

U.S. Environmental Protection Agency

CONTENTS

	Page
INTRODUCTION	1
SECTION 4—FEDERAL PROGRAMS	2
SECTION 5—IDENTIFICATION OF MAJOR SOURCES OF NOISE, NOISE CRITERIA, AND CONTROL TECHNOLOGY	5
SECTION 6—NOISE EMISSION STANDARDS FOR PRODUCTS DISTRIBUTED IN COMMERCE	6
SECTION 7—AIRCRAFT NOISE STANDARDS	7
SECTION 8—PRODUCT LABELING	9
SECTION 14—TECHNICAL ASSISTANCE TO STATE AND LOCAL GOVERNMENTS	10
SECTION 15—LOW NOISE EMISSION PRODUCTS	12
SECTION 17—RAILROAD NOISE EMISSION STANDARDS	13
SECTION 18—MOTOR CARRIER NOISE EMISSION STANDARDS	13
ENFORCEMENT	14
INTERNATIONAL ACTIVITIES	15
MONITORING PROGRAM	16
NOISE CONTROL ACT OF 1972—Summary of Statutory Mandates	18
EPA REGIONAL NOISE REPRESENTATIVES	19
AVAILABLE EPA NOISE DOCUMENTS	20

INTRODUCTION

As the title indicates, this booklet describes the progress EPA has made to date in accomplishing the mandated requirements of the Noise Control Act of 1972. 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.

The progress EPA has made in combating environmental noise since enactment of the Noise Control Act is significant. The wide ranging programs set in motion by the Agency are designed to effect a definite reversal in the trend toward increasing levels of environmental noise.

Through its vigorous noise control activities, EPA is carrying out a vital part of its overall mandate to ensure a healthful environment for all Americans.

Included at the back of the booklet is a listing of all available EPA/ONAC publications, along with the information necessary to obtain copies.

For more specific program information write:

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

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

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 examine RD&D activities during FY73 through FY75 to determine the contribution of these efforts to the control of noise and understanding of its effects. An analysis is made of the research activities in the areas of noise effects, aircraft noise, surface vehicle noise, and machinery noise. Conclusions are made concerning the adequacy of current Federal RD&D activities to support EPA regulatory activities.

- 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 concurrence 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.
- Developed a Federal facility hearing conservation program questionnaire. EPA will utilize this tool in assessing hearing conservation programs at Federal facilities. Other agencies are encouraged to use it as a guideline for evaluating their own programs.
- Provided technical assistance to various 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 following conclusions, which were reached after extensive study of the standard proposed by OSHA:

- The proposed criterion does not adequately assure that no employee will suffer material impairment of his health or functional capacity over his working life.
- The use of hearing protectors will not adequately assure that no employee will suffer material impairment. A feasible engineering solution must be selected.
- Cost and technology data based on American industry in general is not specific or reliable enough to justify promulgating a level less protective than that required to assure that no worker will suffer material impairment.

Federal Status Report

As a major part of its coordination activity, EPA is required to periodically report 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 report 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.

EPA, pursuant to NEPA and to Section 309, 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. In addition EPA voluntarily 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 agencies preparing the EIS.

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 “Levels Document” and the “Criteria Document.”

The “Criteria Document” serves as the basis for the establishment of the recommended environmental noise levels set forth in 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) presents recommended levels of environmental noise requisite to protect the public health and welfare with an adequate margin of safety. This major document does not take economics and technology into account. It provides helpful guidance in evaluating the benefits to be gained from noise abatement actions.

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.

The Agency has issued two 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 track loaders
- Wheel and track dozers

- Truck refrigerator units
- Truck-mounted solid waste compactors
- Motorcycles
- Buses.

EPA now is conducting a number of preidentification studies that will lead to identification of additional major sources of noise on a phased basis. Among the products planned for identification in the near future are automobiles and tires.

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.

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 sources and that fall into the following categories:

- Construction equipment
- Transportation equipment
- Motors and engines
- Electrical and electronic equipment

These standards must take technological feasibility and economics into account in addition to health and welfare.

On December 31, 1975, the Agency issued 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 regulations will become effective in 1978, with the new standard of 76 dBA measured at 7 meters.

On March 31, 1976 the Agency promulgated noise regulations for medium and heavy trucks. These regulations will reduce the urban traffic noise impact for 97 million people. The new standards are 83 dBA in 1978 and 80 dBA in 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. Proposed standards for these products will be published in the Federal Register shortly after the beginning of calendar year 1977.

SECTION 7—AIRCRAFT NOISE STANDARDS

Although aviation 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 28 February 1975 (Future SST's)
 - SST – Submitted 13 January 1976 (Present SST's)
 - Prop Airplanes – Submitted 6 December 1974
 - Retrofit – Submitted 28 January 1975
 - Fleet Noise Level – Submitted 28 January 1975
 - Modify FAR PART 36 – In preparation.
 - Short Haul – In preparation (Submission date indefinite)
- Operational Regulations
 - Approach and Landing – Submitted 29 August 1975
 - Minimum Altitude – Submitted 6 December 1974
 - Takeoff – In preparation.
- Airport Regulation – In preparation.

Hearings on all of the EPA proposals have been held; the hearing for the newest SST rule was held on April 5, 1976. The FAA has not yet taken any formal action on any of the EPA proposals, however.

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. Relevant documents available from EPA include: Mr. Roger Strelow's Testimony of January 5, 1976, and Mr. Strelow's further submission for the record of January 13, 1976.

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.

On December 5, 1974, EPA announced its intention to label hearing protectors. A proposed rule will be published shortly. Data analysis for other labeling actions is progressing, and a formal program is being developed and will be announced soon.

SECTION 14—TECHNICAL ASSISTANCE TO STATE AND LOCAL GOVERNMENTS

This Section of the Act provides EPA with the authority to

- Advise on training of noise control personnel and on selection and operation of noise abatement equipment
- Prepare model State or local legislation for noise control
- Disseminate technical information.

Advice on Training of Noise Control Personnel

EPA uses the mechanism of the Regional Noise Workshop to provide training for State and local officials in subjects concerning environmental noise. These workshops, which are from 2 to 4-days long, are administered by the noise program personnel in the EPA regional offices. Since the first workshop (held in Kansas City, Missouri in September of 1972) EPA has conducted over 30 in various locations throughout the country, educating an estimated 1,200 persons. The workshops range from basic courses in sound to technical courses such as field measurement practices.

“Guidelines for Developing a Training Program in Noise Survey Techniques” (EPA 550/9-75-021) was published by EPA in July 1975. The manual will aid States and localities in training technicians to assist in the enforcement of noise ordinances and in the investigation of noise complaints.

Advice on Selection and Operation of Noise Abatement Equipment

EPA provides technical advice to 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. Further, EPA has conducted evaluative testing of instruments such as sound level meters and community noise monitoring systems, to assess their capabilities and limitations for the most common State and local noise program applications. Better informed as a result of these activities, State and local noise program officials are in a position to select and operate noise measurement and analysis instruments.

Preparation of Model State and Local Legislation for Noise Control

Both a model community noise control ordinance and model State noise control program enabling legislation have been developed by EPA. The model State act was developed in cooperation with the Council of State Governments and was published in their 1974 Handbook of Suggested State Legislation. The Model Community Ordinance was published in September 1975 (EPA 550/9-76-003). The Model Community Ordinance is a comprehensive, performance-standard model that communities of various sizes can use to construct noise control ordinances suited to local needs and conditions. As an accompaniment to the model community ordinance, EPA is preparing a code of recommended practices or rules and regulations for sound measurement equipment and measurement methodology.

EPA is currently involved in the development of a Model Building Code, incorporating acoustic criteria for noise control in new buildings. Another current project is the Community Noise Ordinance Workbook. The workbook will contain an expanded version of the Model Community Ordinance, with alternative sections and detailed explanations of provisions; it will also contain chapters on the legal basis of noise control and the health effects of noise. The EPA regional office in Denver, Colorado is the lead organization concerning the Workbook.

Dissemination of Technical Information

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 67 entries and does not include several major documents in preparation as of this writing.

General Assistance to State and Local Agencies

Assistance to State and local agencies is provided by both the headquarters staff and the 10 regional offices, with the latter assuming the major role in this area. Efforts have concentrated on encouraging the development of State and local noise control programs to implement in-use and operational measures for immediate benefits and to complement EPA efforts. Although EPA is developing regulations enforceable against the manufacturers of new products determined to be major sources of noise, the effectiveness of those regulations is partially dependent on complementary use and operation controls at the State and local level. For example, noise emission regulations for construction equipment will result in lowering overall sound levels from construction sites, but local regulations, such as curfews on nighttime operations in residential areas, are required to protect the affected populace.

The regional offices assist State and local governments in the development of noise control programs through such means as the workshops for the training of State and local officials, site visits, review of ordinances, loan of equipment, attendance at legislative hearings, and conducting of noise monitoring and surveys. In FY '74 and '75, approximately 175 visits to State and local offices were made by the regional offices, equipment was loaned to about 50 communities, approximately 40 ordinances were critically reviewed, and 40 noise monitoring surveys were undertaken at the request of State and local governments. Examples of these activities range from assisting the City of Philadelphia with the planning and conducting of a community noise measurement program to working with the City of Kansas City on the development of a noise ordinance. On-going assistance has also been provided to the State of Washington in the development and implementation of a State noise control program.

EPA headquarters, in addition to participating in the activities just mentioned, 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). It summarizes 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 the soon to be published "State and Municipal Noise Control Activities, 1973-1974" (EPA 550/9-76-006). This document was prepared primarily as a planning and reference guide for public administrators and other officials engaged in the development and implementation of environmental noise control programs.

In conjunction with promulgation of the Interstate Motor Carrier Regulation (Section 18) EPA conducted a Cooperative Noise Reduction Program. This comprehensive information effort was geared to promote early compliance with the new standards. It involved close coordination with the DOT Bureau of Motor Carrier Safety, State and local governments, and major trucking industry associations.

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 preparing to implement a comprehensive program concerning low-noise emission products.

SECTION 17—RAILROAD NOISE EMISSION STANDARDS

Under this Section of the Act, EPA promulgated on December 31, 1975, regulations governing Interstate Rail Carriers (550/9-76-005).

The Department of Transportation, through the Federal Railroad Administration is responsible for enforcement of this regulation. Compliance procedures will be established prior to the December 31, 1976, initial effective date of the regulation. The standards (all measured at 100 feet) are:

- Locomotives (Best Maintenance)
73 dBA at idle
93 dBA at all other throttle settings
96 dBA moving at any speed
Effective Dec. 31, 1976
- (Newly Manufactured)
70 dBA at idle
87 dBA at all other throttle settings
90 dBA moving at any speed
Effective Dec. 31, 1979
- Rail cars
88 dBA up to and including 45 mph
93 dBA greater than 45 mph.
Effective Dec. 31, 1976

SECTION 18—MOTOR CARRIER NOISE EMISSION STANDARDS

On October 29, 1974, EPA promulgated regulations governing noise from Interstate Motor Carriers (550/9-74-017). This regulation will lessen the noise impact for approximately 10 million people. It will be revised as cost and technology permit.

The Department of Transportation Bureau of Motor Carrier Safety (BMCS) is responsible for enforcement of this regulation. BMCS issued compliance regulations on September 12, 1975. BMCS and several localities and States are now enforcing these regulations. The standards, measured at 50 feet, are:

- 88 dBA stationary runup
- 86 dBA under 35 mph
- 90 dBA over 35 mph.

Present plans call for revising these in-use standards as the new trucks meeting the more stringent standards to be promulgated under Section 6 come into use.

ENFORCEMENT

The noise enforcement program is designed to implement the enforcement strategy developed pursuant to the Noise Control Act of 1972. The program will provide Federal enforcement of new product emission standards developed by the Office of Noise Abatement and Control, establish the Federal in-use activity, and provide enforcement-related assistance to the States and localities. The Noise Enforcement Test Facility will provide 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 such standards in-use.

The new product noise emission standards for medium and heavy trucks and portable air compressors will be effective in 1977. 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.

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. Program activities include the development of an EPA standard test capability. This capability is essential to support the enforcement activity for enforcement of new products subject to noise emission standards by audit and for new product verification. To aid in accomplishing its import enforcement goals, the Agency has constructed a noise test facility in Sandusky, Ohio.

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.

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 and chairman of the International Ad Hoc Group on Noise. 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.

Other on-going EPA international activities involve participating in the Cooperative Environmental Program of the Commission of European Communities and in the Task Force on Noise of the Economic Commission for Europe.

MONITORING PROGRAM

EPA has initiated an extensive 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.

Design Specifications for Sound Level Meter

This project was intended to stimulate the availability of low cost instrumentation. The design concept and construction specifications were developed by the Air Force Academy under an Interagency Agreement with EPA. This project did encourage some commercial manufacturers to examine the possibilities of producing some low cost equipment.

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.

NOISE CONTROL ACT OF 1972
Summary of Statutory Mandates

Regulations/Reports	Identification		Proposal in Fed. Reg.		Final in Fed. Reg.		Reports		NCA-72 Section
	Mandated	Actual	Mandated	Actual	Mandated	Actual	Mandated	Actual	
1st Identification Report	4/27/74	6/21/74	---	---	---	---	---	---	5(b) (1)
Portable Air Compressors Regs.	---	6/21/74	4/27/74	10/29/74	10/27/74	1/14/76	---	---	6
Medium & Heavy Truck Regs.	---	6/21/74	4/27/74	10/30/74	10/27/74	---	---	---	6
2nd Identification Report	None	5/28/74	---	---	---	---	---	---	5(b) (1)
Wheel & Track Loader Regs.	---	5/28/75	11/28/76	---	5/28/77	---	---	---	5(b) (1)
Wheel & Track Dozers Regs.	---	5/28/75	11/28/76	---	5/28/77	---	---	---	5(b) (1)
Truck Transport Refrig. Units Regs	---	5/28/75	11/28/76	---	5/28/77	---	---	---	5(b) (1)
Truck Mounted Solid Waste Compactors Regs.*	---	5/28/75	11/28/76	---	5/28/77	---	---	---	5(b) (1)
Motorcycles Regs.	---	5/28/75	11/28/76	---	5/28/77	---	---	---	5(b) (1)
Bus Regs.	---	5/28/75	11/28/76	---	5/28/77	---	---	---	5(b) (1)
Railroad Noise Emission Std	---	---	6/27/73	7/03/74	10/27/73	1/14/76	---	---	17
Motor Carrier Noise Emission Std.	---	---	6/27/73	6/27/73	10/27/73	10/29/74	---	---	18
Report to Congress on Aircraft	---	---	---	---	---	---	7/27/73	7/27/73	7
Criteria Document	---	---	---	---	---	---	7/27/73	7/27/73	5
Levels Document	---	---	---	---	---	---	7/27/73	4/04/74	5

EPA REGIONAL NOISE REPRESENTATIVES

EPA REGION	STATES	ADDRESS	NOISE REPRESENTATIVES	TELEPHONE
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. EMILIO ESCALADAS MR. TOM O'HARE	212/264-4418
III	PA., MD., DEL., W.VA., VA., WASH., D.C.	CURTIS BUILDING ROOM 225 6th & WALNUT STS PHILADELPHIA, PA. 19106	MR. PATRICK ANDERSON DR. DAVID LANGFORD	215/597-9118 215/597-8115
IV	N.C., S.C., TENN., KY., MISS., GA., FLA., ALASKA	1421 PEACHTREE ST., NE ROOM 109 ATLANTA, GA. 30309	DR. KENT WILLIAMS	404/528-5861/5101
V	WISC., ILL., MICH., OHIO, IND.	230 S. DEARBORN CHICAGO, ILL. 60604	MR. HORST WITSCHONKE	312/353-5264
VI	N. MEX., OKLA., ARK., LA., TEX.	1600 PATTERSON ST ROOM 1107 DALLAS, TEXAS 75201	MR. MIKE MENDIAS	214/749-7601
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. 80202	MR. ROBERT SIMMONS	303/837-2221
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

AVAILABLE EPA 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: AC 202/296-4348) or from the Superintendent of Documents, U.S. Government Printing Office (GPO) Washington, D.C. 20402 (Phone: Area Code 202/783-3238).

Limited copies of some documents are available from the EPA Office of Noise Abatement and Control (ONAC).

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
- Research
- Regional
- Other

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
<u>Reports to Congress</u>		
	Report on Aircraft Noise (Senate Document 93-8)	AVAILABLE AT GPO
NCR500.1	Report to the President and Congress on Noise - December 1972	PB-206716
550/9-75-023	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. I
<u>Health and Welfare</u>		
NTID300.2	Noise from Industrial Plants December 1971	PB-206718
NTID300.3	Community Noise - December 1971	PB-207124
NTID300.5	Effects of Noise on Wildlife and Other Animals - December 1971	PB-206720
NTID300.7	Effects of Noise on People December 1971	PB-206723
NTID300.11	Social Impact of Noise - December 1971	PB-206724
NTID300.12	The Effects of Sonic Boom and Similar Impulsive Noise on Structures - December 1971	PB-206725
NTID300.14	Economic Impact of Noise December 1971	PB-206726

*EPA Public Hearings

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
*Vol V	Agricultural and Recreational Use Noise, Denver, Colorado - September 30 - October 1, 1971	AVAILABLE AT EPA ONAC ONLY
*Vol VII	Physiological and Psychological Effects, Boston, Massachusetts October 28-29, 1971	AVAILABLE AT EPA ONLY
AMRL-TR-73-53	Relation Between Daily Noise Exposure and Hearing Loss Based on the Evaluation of 6,835 Industrial Noise Exposure Cases June 1973	AD-767204
550/9-73-001-A	A Basis for Limiting Noise Exposure for Hearing Conservation - July 19, 1973	AD-767274
550/9-73-001-B	Predition of NIPTS Due to Continuous Noise Exposure July 19, 1973	AD-767205
550/9-73-002	Public Health and Welfare Criteria July 1973	PB-241000/AS
550/9-73-008	Proceedings of the International Congress on Noise as a Public Health Problem, Dubrovnik, Yugoslavia May 13-18, 1973	PB-241060/AS
NTID 73.4	Impact Characterization of Noise Including Implications of Identifying and Achieving Levels of Cumulative Noise Exposure - July 1973	PB-224408/AS
550/9-74-004	Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety March 1974	PB-239429/AS

*EPA Public Hearings

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
550/9-74-009	Population Distribution of the United States As a Function of Outdoor Noise Level - June 1974	PB-235022/AS
550/9-74-009-A	Population Distribution of the United States As a Function of Outdoor Noise Level — Volume 2 - June 1974	AVAILABLE AT EPA ONLY
*550/9-76-007	Some Considerations in Choosing an Occupational Noise Exposure Regulation	

Noise Monitoring

550/8-76-001	Procedures for Estimating Sound Power From Measurements of Sound Pressure - July 1975 (NBS/NBSIR 75-652)	COM-75-11399
NTID300.15	Fundamentals of Noise Measurement Rating Schemes, and Standards December 1971	PB-206727
**Vol IV	Standards and Measurements Methods, Legislation and Enforcement Problems, San Francisco, California - September 27-29, 1971	AVAILABLE AT GPO
550/9-73-007	Evaluation of Commercial Integrating-Type Noise Exposure Meter December 1973 (NBS)	COM-74-104-77
550/9-74-008	The Design of A Low Cost Sound Level Meter - April 1974 (USAFA-TR-74-6)	AB-783808

*Being processed for NTIS availability.

**EPA Public Hearings.

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
*550/9-75-021	Guidelines for Developing A Training Program in Noise Survey Techniques July 1975 (Office of Naval Research)	AD-A01667
<u>Surface Transportation</u>		
550/9-75-025	Passenger Noise Environments of Enclosed Transportation Systems June 1975	PB-245409/AS
NTID300.13	Transportation Noise and Noise from Equipment Powered by Internal Combustion Engines December 1971	PB-208660
*Vol II	Manufacturing and Transportation Noise (Highway & Air) - Chicago, Illinois - July 28-29, 1971	AVAILABLE AT GPO
*Vol II	Transportation Noise (rail and other); Urban Noise Problems and Social Behavior, New York, New York October 28-29, 1971	AVAILABLE AT GPO
550/9-74-001A	Control of Motorcycle Noise (Vol I) Technology and Cost Information June 1973	Temporarily Out of Stock Stock
550/9-74-003A	Control of Snowmobile Noise (Vol I) Technology and Cost Information June 1973	AVAILABLE AT EPA ONLY
550/9-73-007	Measurements of Railroad Noise-Line Operations, Yard Boundaries, and Retarder - December 1974 (NBS-NBSIR 74-88)	COM-75-10088

*EPA Public Hearings

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
550/9-74-017	Background Document for Inter- state Motor Carrier Noise Emission Regulations - October 1974	PB-242554/AS
550/9-74-010	Environmental Noise Measurements on Interstate 57 During and After Truck Strike - June 1974 (USA Const. Engrg. Research Lab.)	AVAILABLE AT EPA ONLY
550/9-74-012	Noise in Rail Transit Cars: Incremen- tal Costs of Quieter Cars - June 1974	PB-234992/AS
<u>Aviation</u>		
550/9-75-024	National Measure of Aircraft Noise Impact Through the Year 2000 June 1975	PB-243522/AS
NTID 73.2	Legal and Institutional Analysis of Aircraft and Airport Noise and Appor- tionment of Authority Between Federal, State, and Local Govern- ment - July 1973	PB-225149/4AS
NTID 73.3	Report on Operations Analysis Including Monitoring, Enforcement, Safety, and Cost - July 1973	PB-225150/2AS
NTID 73.5	Noise Source Abatement Technology and Cost Analysis Including Retrofit- ting - July 1973	PB-224422/AS
NTID 73.6	Review and Analysis of Present and Planned FAA Noise Regulatory Actions and Their Consequences Regarding Aircraft and Airport Operations - July 1973	PB-224405/AS

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
NTID 73.7	Military Aircraft and Airport Noise and Opportunities for Reduction Without Inhibition of Military Missions - July 1973	PB-223637/AS
	Testimony of Roger Strelow on Concorde SST, January 1976	AVAILABLE AT EPA ONAC
550/9-74-013	Noise Measurement of Concorde 02 Approach and Takeoff at Dallas, Ft. Worth and Dulles International Airports - August 1974	PB-245156/AS
550/9-74-019A	Civil Aviation Studies and Interagency Coordinating Organizations (Vol I) December 1974	PB-239344/AS
550/9-74-019B	Civil Aviation Studies and Interagency Coordinating Organizations (Vol II) Appendices - December 1974	PB-239345/AS
550/9-75-022	Information on FAA Certification of Aircraft - January 1975	PB-242583/AS
NTID300.12	The Effects of Sonic Boom and Similar Impulsive Noise on Structures - December 1971	PB-206725

Construction

NTID300.1	Noise from Construction Equipment and Operations, Building Equipment, and Home Appliances,- December 1971	PB-206717
*Vol I	Construction Noise -Atlanta, Georgia July 8-9, 1971	PB-230064

*EPA Public Hearings

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
<u>State and Local Noise Control</u>		
550/9-76-003	Model Community Noise Control Ordinance - September 1975	AVAILABLE AT EPA Public Information Center (PM215)
NTID300.4	Laws and Regulatory Schemes for Noise Abatement - December 1971	PB-206719
NTID300.8	State and Municipal Non-Occupational Programs - December 1971	PB-208659
*Vol III	Urban Planning, Architectural Design: and Noise in the Home - Dallas, Texas - August 18-19, 1971	PB-230065
*Vol VIII	Technology and Economics of Noise Control; National Problems and Their Relation with State and Local Programs, Washington, D.C. November 9-12, 1971	AVAILABLE AT GPO
550/9-75-020	Noise Source Regulation in State and Local Noise Ordinances - February 1975	PB-245158/AS
<u>Federal Programs</u>		
NTID300.10	Summary of Noise Programs in the Federal Government - December 1971	AVAILABLE AT GPO ONLY
550/9-75-023	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

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
	<u>Research</u>	
600/2-75-003	Federal Aircraft Noise Research, Development, and Demonstration Programs: FY 73 – FY 75	PB-244904/LK
600/2-75-008	Federal Machinery Noise Research, Development, and Demonstration Programs, FY 73 – FY 75	PB-243523/LK
600/2-75-002	Federal Surface Vehicle Noise Research, Development, and Demonstration Programs: FY 73 – FY 75	PB-241887/LK
600/2-75-010	An Assessment of the Federal Noise Research, Development and Demonstration Activities: FY 73 – FY 75	PB-246894/LK
550/9-74-002	Soviet Noise Research Literature From the F. F. Erisman Scientific Research Institute for Hygiene Moscow, USSR - April 1974	PB-235086/T
600/1-75-001	Federal Noise Effects Research: FY73-FY75	PB-241751/LK

NOTE: Background documents for the final Portable Air Compressor and Rail Carrier regulations are being processed for NTIS availability.

EPA DOCUMENT NO.	TITLE	NTIS DOCUMENT NO.
	<u>Other</u>	
550/9-74-011	Lawn Mowers: Noise and Cost of Abatement - June 1974	PB-234932/AS
NTID300.6	An Assessment of Noise Concern in Other Nations - December 1971	PB-206721 (Vol. I) PB-206722 (Vol. II)
NTID300.9	Noise Programs of Professional/ Industrial Organizational, Universities and Colleges December 1971	PB-207125

Regional

	Environmental Noise Assessment Waco Texas Metropolitan Area April 5, 1974 (Region VI) (Available from EPA Region VI—Dallas)	
906/9-75-001	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) (Available from EPA Region VI—Dallas)	

