

AIR POLLUTION ABATEMENT BY FEDERAL FACILITIES

REPORT
OF THE
ADMINISTRATOR
TO THE
UNITED STATES CONGRESS

JANUARY, 1971

ENVIRONMENTAL PROTECTION AGENCY

Air Pollution Programs

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I. OVERVIEW

On February 4, 1970, President Nixon issued Executive Order 11507, which set forth requirements for the prevention and control of air and water pollution at Federal facilities. This Executive Order, which is reproduced in Appendix A of this report, superseded Executive Order 11282, dated May 26, 1966.

The principal provisions of the new Executive Order are as follows:

- Federal facilities are defined as including buildings, installations, structures, public works, equipment, aircraft, vessels, and other vehicles and property owned by or constructed or manufactured for the purpose of leasing to the Federal Government.
- Federal facilities are required to comply with air quality standards, including implementation plans, adopted under the Clean Air Act, as amended.
- In areas not covered by air quality standards, including implementation plans, Federal facilities are required to comply with the regulations promulgated by the Secretary of Health, Education, and Welfare in June 1966, as amended in July 1969. These regulations (42 C.F.R. 76) are reproduced in Appendix A.
- With respect to Federal facilities in existence on the date of issuance of the Executive Order, actions necessary to meet the requirements outlined above must be underway or completed by December 31, 1972.

The requirements set forth in the Executive Order must be considered at the earliest possible stage of planning for new Federal facilities.

To meet the December 1972 deadline, Federal departments and agencies

will have to initiate, during Fiscal 1972 and Fiscal 1973, many air pollution abatement projects that previously were not scheduled for action until subsequent Fiscal years. This needed acceleration is reflected in budget requests for Fiscal 1972.

Lack of adequate emission control technology will necessitate the postponement of some projects until after Fiscal 1973. These projects deal primarily with smoke from fire-fighting schools, nitrogen oxides emissions from Army ammunition plants, emissions from testing of jet engines, and problems associated with disposal of munitions and propellants. Efforts to devise solutions to these problems are in progress; these efforts are discussed in greater detail in Chapter IV of this report.

As of the date of issuance of the new Executive Order, the Secretary of Health, Education, and Welfare was responsible for promulgation of air pollution abatement regulations applicable to Federal facilities; providing technical assistance to Federal departments and agencies in preparing and implementing abatement plans; and furnishing the Office of Management and Budget assistance in making technical and administrative reviews of the abatement plans. On December 2, 1970, with the creation of the Environmental Protection Agency (EPA), these responsibilities were assumed by the EPA Administrator.

II. Progress: Stationary Sources

Federal departments and agencies submitted their most recent annual reports of progress to the Office of Management and Budget in June 1970. These reports reflected conditions as they existed on April 1, 1970.

Over that period, 500 remedial actions were initiated at 391 Federal installations in 49 States, the District of Columbia, and Puerto Rico.

The 500 remedial actions included 121 involving fuel conversions, 46 involving cessation of open burning, closing of 20 incinerators, upgrading of 11 incinerators, and construction of 11 new incinerators.

Appendix B of this report provides statistical summary of remedial actions classified by agencies and types of projects. Appendix B provides a brief description of each project.

For Fiscal 1970, appropriations were made for nearly every abatement project for which funds were requested. It is now estimated that a total of more than \$74,000,000 has been invested by Federal departments and agencies in air pollution abatement projects initiated or completed over the past four years.

III. Progress: Mobile Sources

At the request of the President, the Administrator of General Services issued, in October 1970, a regulation requiring the use of lead-free or low-lead (containing not more than 0.5 grams of lead per gallon) gasoline in motor vehicles operated by the Federal Government except where it is clearly impractical or unfeasible to comply. The regulation excludes cost as a factor in determining whether compliance is practical or feasible.

In announcing issuance of the regulation, the President also released the text of a letter in which he urged all Governors to undertake similar efforts with respect to the States' use of gasoline.

The President's announcement, the text of his letter to Governors, and the regulation issued by the Administrator of General Services are reproduced in Appendix D of this report.

Within the Department of Defense, the Air Force has a program underway to install new burner cans and fuel nozzles in certain jet engines to reduce emissions of particulate matter (smoke). These programs are being carried out as part of routine maintenance operations. In addition, Navy contracts for procurement of new production engines now contain stringent specifications regarding emission standards. The Air Force also has underway or planned a number of studies aimed at providing new or better solutions to the problem of air pollution from jet engines.

The General Services Administration and the Postal Service, in cooperation with EPA, have undertaken a number of studies of the desirability and feasibility of using fuels such as compressed natural gas

and liquified petroleum gas in their motor vehicle fleets. These studies are being conducted in several cities. The Tennessee Valley Authority also is engaged in efforts to upgrade control of emissions from its motor vehicles.

The Coast Guard is converting boilers on 18 of its cutters to use Navy Special Fuel Oil, a relatively clean-burning fuel. In addition, six cutters equipped with gas turbine propulsion systems are being upgraded through the installation of improved burner cans.

IV. Special Problems

This section describes increased efforts made by Federal agencies to define and solve various special problems in the field of air pollution control.

Because of the continuing concern about emissions from Army Ammunition Plants (AAP), especially nitrogen oxides emissions, a three-day seminar was conducted in June 1970. This seminar was devoted to an in-depth discussion of the best available technology for the control of nitrogen oxides. Participants included representatives of the Army Materiel Command, Army Munitions Command, Corps of Engineers, and the Army Environmental Health Agency.

The Navy has undertaken a great deal of developmental work relating to the control of visible smoke from fire-fighting training schools. Fire-fighting training requires the use of open tank fires, open flight-deck fires, helicopter-pad fires, and contained fires in ship mock-up structures. At its Treasure Island facility, the Navy has installed an afterburner, which significantly reduces visible emissions during fire-fighting training operations in ship mockup structures.

A prototype facility for the elimination of smoke from large open tank fires is under construction at the Fleet Training Center in San Diego. The open-fire pollution control technology developed at these facilities, together with the results of research and development work at the Navy Training Device Center in Orlando, Florida, will facilitate design of smoke-elimination facilities for other fire-fighting training schools.

At the Great Lakes Training Facility, another prototype system has been installed and is being tested as a means of controlling smoke from

open tank fires and ship mock-up fires. This system consists essentially of devices which inject a fine spray of water at the burning surface. Objectionable smoke is eliminated and, at the same time, the training requirements for flame and heat are maintained. Such a system is less expensive than an afterburner facility.

An incinerator used for the disposal of harbor driftwood by the Corps of Engineers at its Caven Point Facility in New Jersey was evaluated in September 1970. Participants were sampling teams from the Air Force, the Army, and EPA. The evaluation provided a basis for necessary corrective measures to bring emissions into compliance with applicable standards.

The continuing problem of munition and propellant disposal is under active study by both the Army and Navy. At Picatinny Arsenal in New Jersey, an existing incineration system, incorporating well instrumented scrubbers, afterburners, and catalytic converters, is being modified to permit detailed study and evaluation of new methods for the disposal of such materials.

At the Naval Ordnance Station in Indian Head, Maryland, and the Naval Weapons Laboratory in Dahlgren, Virginia, work is underway on improved incineration techniques for shipboard destruction of monopropellants and other waste munitions. The Naval Ordnance Environmental Health Center in Cincinnati, Ohio, is also undertaking a substantial program to develop ways to recycle or reclaim useful products from explosives and propellants. Among the methods receiving special attention are controlled incineration, chemical destruction, and biological degradation.

Control of emissions from jet engine test cells is a particularly difficult problem. Research on this problem, for both the Air Force and

Navy, is being carried out at the Naval Air Rework Facility in Jacksonville, Florida. A prototype nucleation-scrubber is under construction on one test cell and will be studied for operating characteristics, efficiency, and cost.

Technical assistance was provided to the General Services Administration (GSA) on the disposal of approximately 30,000 pounds of surplus or deteriorated morphine. In cooperation with officials of the State of New Jersey, the morphine was incinerated under controlled conditions. Extensive advice was obtained from recognized experts on morphine and on its chemistry and disposal. While there were no precise data on the end-products resulting from the combustion of morphine, it was concluded that by maintaining sufficiently high temperatures, in excess of 1200-1400°F, there would be no deleterious products.

In two instances during the past year, problems arose with facilities which involved technical, rather than direct, Federal ownership. In one case, the Federal Housing Administration (FHA) had assumed ownership of two properties with incinerator problems in the State of New Jersey due to default by the original owners of the properties. In another instance, the Rural Electrification Administration (REA) had assumed ownership of a power plant utilizing high-sulfur coal in southern Indiana. In each of these instances, after appropriate consultation with EPA, these agencies initiated steps to correct the air pollution problems associated with the facilities.

V. Emission Studies

Preparation of emission inventory reports on Federal Facilities has been initiated with respect to 34 air quality control regions. Thus far, 21 reports have been completed and distributed to the agencies and personnel involved in the evaluation and control of air pollution from Federal sources within the regions. Reports on the other 13 regions will be completed by June 30, 1971.

Work is continuing on a data bank on the estimated 20,000 Federally owned installations in the Nation. The data bank is designed to store data on air pollution emissions from each of these installations in a form readily accessible for study and problem evaluation. The data bank has been useful in responding to various requests from State and local agencies for facility and emission data on Federal sources within their areas of jurisdiction.

VI. Incineration

In 1970, EPA personnel witnessed tests on four manufacturers' lines of incinerators proposed for use at Federal facilities. The purpose of witnessing the tests is to determine whether the incinerator units comply with the emission limitations contained in the regulations applicable to Federal sources (42 C.F.R. 76). In each instance, the emissions were within allowable particulate and visible emission limits. This brings to seven the number of incinerator lines or units which have been shown to meet the emission regulations. All Federal agencies have been informed of these findings for their use and guidance when procuring incinerators.

Technical problems associated with testing of incinerators received considerable attention. Meetings were held with officials of the Incinerator Institute of America to resolve differences between their test method and the official Federal method, as described in the manual, "Specifications for Incinerator Testing at Federal Facilities". A comparative study showed that the methods are not compatible. The procedures in the Federal manual continue to serve as the basis for determining compliance.

An "Interim Guide of Good Practice for Incineration at Federal Facilities" is among the guidance documents prepared for use by Federal agencies. EPA also assisted the Building Research Advisory Board (BRAB), the Federal Construction Council (FCC) and the National Academy of Sciences (NAS) in issuing a document entitled "Impact of Air Pollution Regulations on Design Criteria for Power Plants." Presentations were made at incineration seminars held for the National Parks Service, the Department of Agriculture, the Department of the Army, and the Department of Health, Education, and Welfare.

APPENDIX A

Control of Air and Water Pollution at Federal Facilities

*Statement by the President Upon Signing Executive
Order 11507. February 4, 1970*

A wise man once told a friend, "What you do speaks so loudly, I cannot hear what you say." Because actions speak louder than words, I have today issued an Executive order which will eliminate air and water pollution caused by Federal facilities.

Over the past several years, the Federal Government has become one of the Nation's worst polluters. Clearly, the Federal Government cannot be an effective leader in the battle to save the environment so long as this intolerable situation continues.

The order I am issuing today will require that all projects or installations owned by or leased to the Federal Government be designed, operated, and maintained so as to conform with air and water quality standards—present and future—which are established under Federal legislation.

Specific performance requirements for each facility will be set by agency heads with the approval of the Secretary of Health, Education, and Welfare in the case of air pollution controls and the Secretary of the Interior in the case of water pollution controls. All existing facilities must comply with this order by December 31, 1972.

The order establishes a \$359 million program for achieving this objective and prohibits the transfer of these funds to other programs. The order also requires that all facilities which are built in the future must be pollution free; budget requests for new facilities must include all necessary funds for pollution control.

Orders similar to this one have been issued in the past but their requirements have been ambiguously worded, poorly enforced, and generally ineffective. This order remedies the deficiencies of these earlier efforts: It sets precise standards, it provides for strict enforcement, and it guarantees that pollution control funds will not be diverted to other uses. The order also establishes procedures for operating pollution control facilities, handling materials which may cause air or water pollution, and eliminating pollution of ground waters.

The order I am issuing today represents another important step in our efforts to clean up the environment, one which takes advantage of the fact that Federal legislation already sets quality standards for air and water. There are other Federal activities, of course, which affect the environment in other important ways. I have asked the Environmental Quality Council to maintain surveillance over such activities and to recommend any further actions which may be needed.

Federal facilities are owned by all the people. This order will see to it that they are operated in the interests of all the people. As the Federal Government considers and institutes further pollution abatement measures in the future, it can do so with the confidence that it has first moved to sweep its own doorstep clean.

Control of Air and Water Pollution at Federal Facilities

Executive Order 11507. February 4, 1970

PREVENTION, CONTROL, AND ABATEMENT OF AIR AND WATER POLLUTION AT FEDERAL FACILITIES

By virtue of the authority vested in me as President of the United States and in furtherance of the purpose and policy of the Clean Air Act, as amended (42 U.S.C. 1857), the Federal Water Pollution Control Act, as amended (33 U.S.C. 466), and the National Environmental Policy Act of 1969 (Public Law No. 91-190, approved January 1, 1970), it is ordered as follows:

SECTION 1. Policy. It is the intent of this order that the Federal Government in the design, operation, and maintenance of its facilities shall provide leadership in the nationwide effort to protect and enhance the quality of our air and water resources.

SEC. 2. Definitions. As used in this order:

(a) The term "respective Secretary" shall mean the Secretary of Health, Education, and Welfare in matters pertaining to air pollution control and the Secretary of the Interior in matters pertaining to water pollution control.

(b) The term "agencies" shall mean the departments, agencies, and establishments of the executive branch.

(c) The term "facilities" shall mean the buildings, installations, structures, public works, equipment, aircraft, vessels, and other vehicles and property, owned by or constructed or manufactured for the purpose of leasing to the Federal Government.

(d) The term "air and water quality standards" shall mean respectively the quality standards and related plans of implementation, including emission standards, adopted pursuant to the Clean Air Act, as amended, and the Federal Water Pollution Control Act, as amended, or as prescribed pursuant to section 4(b) of this order.

(e) The term "performance specifications" shall mean permissible limits of emissions, discharges, or other values applicable to a particular Federal facility that would, as a minimum, provide for conformance with air and water quality standards as defined herein.

(f) The term "United States" shall mean the fifty States, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, and Guam.

SEC. 3. Responsibilities. (a) Heads of agencies shall, with regard to all facilities under their jurisdiction:

(1) Maintain review and surveillance to ensure that the standards set forth in section 4 of this order are met on a continuing basis.

(2) Direct particular attention to identifying potential air and water quality problems associated with the use and production of new materials and make provisions for their prevention and control.

(3) Consult with the respective Secretary concerning the best techniques and methods available for the protection and enhancement of air and water quality.

(4) Develop and publish procedures, within six months of the date of this order, to ensure that the facilities under their jurisdiction are in conformity with this order. In the preparation of such procedures there shall be timely and appropriate consultation with the respective Secretary.

(b) The respective Secretary shall provide leadership in implementing this order, including the provision of technical advice and assistance to the heads of agencies in connection with their duties and responsibilities under this order.

(c) The Council on Environmental Quality shall maintain continuing review of the implementation of this order and shall, from time to time, report to the President thereon.

SEC. 4. *Standards.* (a) Heads of agencies shall ensure that all facilities under their jurisdiction are designed, operated, and maintained so as to meet the following requirements:

(1) Facilities shall conform to air and water quality standards as defined in section 2(d) of this order. In those cases where no such air or water quality standards are in force for a particular geographical area, Federal facilities in that area shall conform to the standards established pursuant to subsection (b) of this section. Federal facilities shall also conform to the performance specifications provided for in this order.

(2) Actions shall be taken to avoid or minimize wastes created through the complete cycle of operations of each facility.

(3) The use of municipal or regional waste collection or disposal systems shall be the preferred method of disposal of wastes from Federal facilities. Whenever use of such a system is not feasible or appropriate, the heads of agencies concerned shall take necessary measures for the satisfactory disposal of such wastes, including:

(A) When appropriate, the installation and operation of their own waste treatment and disposal facilities in a manner consistent with this section.

(B) The provision of trained manpower, laboratory and other supporting facilities as appropriate to meet the requirements of this section.

(C) The establishment of requirements that operators of Federal pollution control facilities meet levels of proficiency consistent with the operator certification requirements of the State in which the facility is located. In the absence of such State requirements the respective Secretary may issue guidelines, pertaining to operator qualifications and performance, for the use of heads of agencies.

(4) The use, storage, and handling of all materials, including but not limited to, solid fuels, ashes, petroleum products, and other chemical and biological agents, shall be carried out so as to avoid or minimize the possibilities for water and air pollution. When appropriate, preventive

measures shall be taken to entrap spillage or discharge or otherwise to prevent accidental pollution. Each agency, in consultation with the respective Secretary, shall establish appropriate emergency plans and procedures for dealing with accidental pollution.

(5) No waste shall be disposed of or discharged in such a manner as could result in the pollution of ground water which would endanger the health or welfare of the public.

(6) Discharges of radioactivity shall be in accordance with the applicable rules, regulations, or requirements of the Atomic Energy Commission and with the policies and guidance of the Federal Radiation Council as published in the Federal Register.

(b) In those cases where there are no air or water quality standards as defined in section 2(d) of this order in force for a particular geographic area or in those cases where more stringent requirements are deemed advisable for Federal facilities, the respective Secretary, in consultation with appropriate Federal, State, interstate, and local agencies, may issue regulations establishing air or water quality standards for the purpose of this order, including related schedules for implementation.

(c) The heads of agencies, in consultation with the respective Secretary, may from time to time identify facilities or uses thereof which are to be exempted, including temporary relief, from provisions of this order in the interest of national security or in extraordinary cases where it is in the national interest. Such exemptions shall be reviewed periodically by the respective Secretary and the heads of the agencies concerned. A report on exemptions granted shall be submitted to the Council on Environmental Quality periodically.

SEC. 5. *Procedures for abatement of air and water pollution at existing Federal facilities.* (a) Actions necessary to meet the requirements of subsections (a)(1) and (b) of section 4 of this order pertaining to air and water pollution at existing facilities are to be completed or under way no later than December 31, 1972. In cases where an enforcement conference called pursuant to law or air and water quality standards require earlier actions, the earlier date shall be applicable.

(b) In order to ensure full compliance with the requirements of section 5(a) and to facilitate budgeting for necessary corrective and preventive measures, heads of agencies shall present to the Director of the Bureau of the Budget by June 30, 1970, a plan to provide for such improvements as may be necessary to meet the required date. Subsequent revisions needed to keep any such plan up-to-date shall be promptly submitted to the Director of the Bureau of the Budget.

(c) Heads of agencies shall notify the respective Secretary as to the performance specifications proposed for each facility to meet the requirements of subsections 4(a)(1) and (b) of this order. Where the respective Secretary finds that such performance specifications are not adequate to meet such requirements, he shall consult with the agency head and the latter shall thereupon develop adequate performance specifications.

(d) As may be found necessary, heads of agencies may submit requests to the Director of the Bureau of the Budget for extensions of time for a project beyond the time specified in section 5(a). The Director, in consultation with the respective Secretary, may approve such request if the Director deems that such project is not technically feasible or immediately necessary to meet the requirements of subsections 4 (a) and (b). Full justification as to the extraordinary circumstances necessitating any such extension shall be required.

(e) Heads of agencies shall not use for any other purpose any of the amounts appropriated and apportioned for corrective and preventive measures necessary to meet the requirements of subsection (a) for the fiscal year ending June 30, 1971, and for any subsequent fiscal year.

SEC. 6. *Procedures for new Federal facilities.* (a) Heads of agencies shall ensure that the requirements of section 4 of this order are considered at the earliest possible stage of planning for new facilities.

(b) A request for funds to defray the cost of designing and constructing new facilities in the United States shall be included in the annual budget estimates of an agency only if such request includes funds to defray the costs of such measures as may be necessary to assure that the new facility will meet the requirements of section 4 of this order.

(c) Heads of agencies shall notify the respective Secretary as to the performance specifications proposed for each facility when action is necessary to meet the requirements of subsections 4 (a)(1) and (b) of this order. Where the respective Secretary finds that such performance specifications are not adequate to meet such requirements he shall consult with the agency head and the latter shall thereupon develop adequate performance specifications.

(d) Heads of agencies shall give due consideration to the quality of air and water resources when facilities are constructed or operated outside the United States.

SEC. 7. *Procedures for Federal water resources projects.*

(a) All water resources projects of the Departments of Agriculture, the Interior, and the Army, the Tennessee Valley Authority, and the United States Section of the International Boundary and Water Commission shall be consistent with the requirements of section 4 of this order. In addition, all such projects shall be presented for the consideration of the Secretary of the Interior at the earliest feasible stage if they involve proposals or recommendations with respect to the authorization or construction of any Federal water resources project in the United States. The Secretary of the Interior shall review plans and supporting data for all such projects relating to water quality, and shall prepare a report to the head of the responsible agency describing the potential impact of the project on water quality, including recommendations concerning any changes or other measures with respect thereto which he considers to be necessary in connection with the design, construction, and operation of the project.

(b) The report of the Secretary of the Interior shall accompany at the earliest practicable stage any report proposing authorization or construction, or a request for funding, of such a water resource project. In any case in which the Secretary of the Interior fails to submit a report within 90 days after receipt of project plans, the head of the agency concerned may propose authorization, construction, or funding of the project without such an accompanying report. In such a case, the head of the agency concerned shall explicitly state in his request or report concerning the project that the Secretary of the Interior has not reported on the potential impact of the project on water quality.

SEC. 8. *Saving provisions.* Except to the extent that they are inconsistent with this order, all outstanding rules, regulations, orders, delegations, or other forms of administrative action issued, made, or otherwise taken under the orders superseded by section 9 hereof or relating to the subject of this order shall remain in full force and effect until amended, modified, or terminated by proper authority.

SEC. 9. *Orders superseded.* Executive Order No. 11282 of May 26, 1966, and Executive Order No. 11288 of July 2, 1966, are hereby superseded.

RICHARD NIXON

The White House
February 4, 1970

Title 42—PUBLIC HEALTH

Chapter I—Public Health Service Department of Health, Education, and Welfare

SUBCHAPTER F—QUARANTINE, INSPECTION, AND LICENSING

PART 76—PREVENTION, CONTROL, AND ABATEMENT OF AIR POLLUTION FROM FEDERAL GOVERNMENT ACTIVITIES: PERFORMANCE STANDARDS AND TECHNIQUES OF MEASUREMENT

Sec.

- 76.1 Definitions.
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- 76.7 Storage and handling of fuels and ash.
- 76.8 Disposal of refuse
- 76.9 Other pollution producing processes.

AUTHORITY: The provisions of this Part 76 issued under section 5 of Executive Order 11282; 3 CFR, 1966 comp.

SOURCE: The provisions of this Part 76 appear at 31 F.R. 7902, June 3, 1966, unless otherwise noted.

§76.1 Definitions.

As used in this part:

- (a) "Executive Order" means Executive Order No. 11282.
- (b) "Nonurban areas" means all areas other than urban areas.
- (c) "Ringelmann Scale" means the Ringelmann Scale as published in the latest U.S. Bureau of Mines Information Circular entitled "Ringelmann Smoke Chart".
- (d) "Secretary" means the Secretary of Health, Education, and Welfare.
- (e) "Smoke Inspection Guide" means the U.S. Public Health Service Smoke Inspection Guide described in Part 75 of this title.
- (f) "Urban areas" means those areas classified as urban in the latest available Federal census, or as Standard Metropolitan Statistical Areas by the Bureau of the Budget.
- (g) "Unit" means all indirect heat exchangers connected to a single stack.
- (h) "Particulate matter" means any material, except uncombined water, that exists as a solid or liquid at standard conditions.
- (i) "Standard conditions" means a temperature of 70° Fahrenheit at a pressure of 14.7 pounds per square inch, absolute.
- (j) "Waste" means any solid, liquid, or gaseous substance, the disposal of which may create an air pollution problem.

[31 F.R. 7902, June 3, 1966, as amended at 34 F.R. 11419, July 10, 1969]

§76.2 Intent.

It is the intent of these standards that emissions to the atmosphere from Federal facilities and buildings shall not be permitted if such emissions endanger health or welfare and that emissions which are likely to be injurious or hazardous to people, animals, vegetation, or property shall be minimized.

§76.3 Applicability.

(a) Unless otherwise indicated, the standards in this part apply to both new and existing Federal facilities and buildings. These standards are effective upon publication in the FEDERAL REGISTER, except for those facilities and buildings which are likely to require installation of improvements under the plan to be submitted in accordance with section 3 of the Executive Order.

(b) Except for discharges of radioactive effluents which are regulated by the Atomic Energy Commission, Federal facilities and buildings shall conform to the air pollution standards prescribed by the State or community in which they are located. If State or local standards are not prescribed for a particular location, or if the State or local standards are less stringent than the standards prescribed herein, the standards in this part shall be applicable to discharges from such Federal facilities and buildings except as otherwise indicated.

(c) Temporary operations that may result in potential air pollution problems, such as those associated with research, development, test, evaluation, space, and military activities, shall be conducted with such precautions and safeguards as are needed to achieve the intent of these standards.

(d) The Secretary may, upon application of the relevant department, agency or establishment, exempt any Federal facility or building from the objectives contained in section 4 of the Executive order and from any or all of these standards whenever he determines that the activities of such building or facility will not significantly conflict with the intent of the Executive order and that such an exemption is in the public interest.

§76.4 Combustion of fuel.

(a) The following standards apply to the combustion units of facilities and buildings having a heat

input of less than 1,000 million B.t.u./hour, other than fireplaces, stoves, or grills burning wood or charcoal:

(1) Manually fired equipment shall not be installed as new or replacement equipment, except for the burning of anthracite, coke, or smokeless fuel.

(2) (i) For new units, except during startup, cleaning of fires, or soot blowing, the density of any emission to the atmosphere shall not exceed No. 1 on the Ringelmann Scale or the Smoke Inspection Guide.

(ii) For existing units, except during startup, cleaning of fires, or soot blowing, the density of any emission to the atmosphere shall not exceed No. 2 on the Ringelmann Scale or Smoke Inspection Guide.

(3) A photoelectric or other type smoke detector, recorder, or alarm shall be installed on units larger than ten million BTU per hour input, except where gas or light oil (No. 2 or lighter) is burned.

(4) During routine operation, the emission of particles larger than 60 microns shall not normally occur.

(5) Means shall be provided in all newly constructed units and wherever practicable in existing units to allow the periodic measurement of flyash and other particulate matter.

(6) All new or replacement spreader stoker installations shall be of a type that automatically discharges ashes to the ash pit either continuously or in very frequent small increments, and flyash shall be reinjected only from boiler passes.

(7) For units of less than 10 million BTU/hour heat input, the emission of flyash and other particulate matter shall not exceed 0.6 pounds of particulate matter per million BTU heat input, as measured by the American Society of Mechanical Engineers Power Test Code No. 2.7 for "Determining Dust Concentrations in a Gas Stream," or equivalent test method.

(8) For units between 10 million and 1,000 million BTU/hour heat input, the emission of flyash and other particulate matter shall not exceed that specified in figure 1, as measured by the test

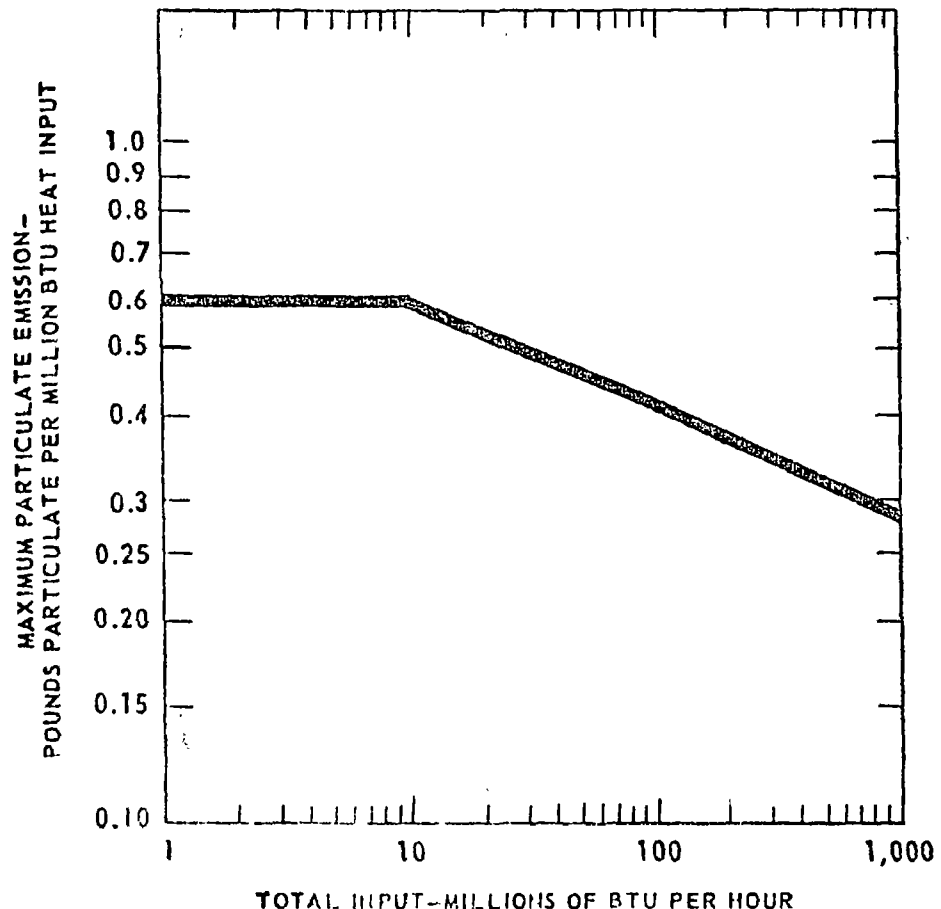
method specified in subparagraph (7) of this paragraph. Existing units shall meet this standard within the time designated by the plan submitted in accordance with section 3 of the Executive order except that with respect to existing spreader stoker units the plan may specify certain units which may emit particulate matter at an interim rate not exceeding 0.6 lb/million BTU heat input.

(b) For units having a heat input of more than 1,000 million BTU/hour, the appropriate department, agency, or establishment shall seek special advice from the Secretary with regard to smoke, flyash, and other particulate emissions.

§76.5 Sulfur oxides.

(a) Combustion units of facilities or buildings not located in areas specified by the Secretary under paragraph (c) of this section and whose heat input is less than 1,000 million BTU/hour shall burn the lowest sulfur content fuel that is reasonably available. In determining reasonable availability, the factors to be considered include, among others, price, firmness of supply, extent of existing pollution, and assurance of

FIGURE 1. -- MAXIMUM EMISSION OF PARTICULATE MATTER FROM FUEL BURNING INSTALLATIONS



supply under adverse weather and natural disaster conditions.

(b) For combustion units or Federal facilities or buildings not located in areas specified by the Secretary under paragraph (c) of this section and whose heat input is more than 1,000 million BTU/hour, the appropriate department, agency, or establishment shall seek special advice from the Secretary with regard to sulfur-oxide emissions.

(c) (1) Effective October 1, 1969, combustion units of all Federal facilities or buildings located in the following areas shall comply with applicable emission limitations and control measures set out below:

(i) In the New Jersey-New York Connecticut Interstate Air Quality Control Region as defined by 42 CFR Part 81, the emission rate of sulfur oxides (calculated as sulfur dioxide) from fuels used in combustion units shall not exceed 0.35 pounds per million B.t.u. (gross value) heat input.

(ii) In the Metropolitan Chicago Interstate Air Quality Control Region (Indiana-Illinois) and in the Metropolitan Philadelphia Interstate Air Quality Control Region (Pennsylvania-New Jersey-Delaware) as defined in 42 CFR Part 81, the emission rate of sulfur oxides (calculated as sulfur dioxide) from fuels used in combustion units shall not exceed 0.65 pounds per million B.t.u. (gross value) heat input.

(2) If compliance with the above emission standard is to be accomplished by means of controlled fuel quality, the agency responsible for each Federal facility in the designated areas shall establish appropriate fuel specifications to insure that the above emission limitations are met and shall provide for adequate tests to ascertain that delivered fuel meets the applicable specifications. If removal of sulfur oxides from flue gases is used to control emissions, the facility shall provide for continuous monitoring and recording of the sulfur oxide content of flue gases emitted. The sulfur content of fuels shall be determined in accordance with current recognized testing procedures of the American Society for Testing and Materials. The sulfur content of the flue gases shall be determined in accordance with current recognized testing procedures of the American Society of Mechanical Engineers.

(3) The limitations and measures established in subparagraph (1) of this paragraph shall be revised or amended only after consultation with appropriate Federal, State, and local officials and affected parties. Not less than 30 days prior to prescribing such revised or amended limits or measures, the Secretary will publish in the FEDERAL REGISTER notice of his intention to adopt such limits or measures, and will thereafter publish in the FEDERAL REGISTER the limits or measures established. The Secretary may at any time

designate other urban areas which suffer from extremely high air pollution levels, and after similar consultation, and publication in the FEDERAL REGISTER, prescribe such limits or measures as he determines are necessary to carry out the intent of Executive Order 11282.

(d) The emission of the oxides of sulfur the atmosphere shall be monitored at regular intervals by determining the sulfur content of the fuel used or by determining the sulfur content of flue gases.

[31 F.R. 7902, June 3, 1966, as amended at 32 F.R. 4415, Mar. 23, 1967; 34 F.R. 11419, July 10, 1969]

§76.6 Stacks.

For buildings or facilities in nonurbanized areas, the particle emission standards of § 76.4(a) (7) and (8) may be revised for an individual installation by amount to be determined by the Secretary, when:

(a) The stack height exceeds by $2\frac{1}{2}$ times the height of the highest building in that area, and

(b) The pollution level in any area will not be significantly increased thereby.

For large plants the determination of chimney height shall be based on air quality criteria, land use, and meteorological, topographical, aesthetic, and operating factors.

§76.7 Storage and handling of fuels and ash.

(a) Solid fuels and ash shall be stored and handled so as not to release to the atmosphere dust in significant quantities.

(b) In quantities of 40,000 gallons or more, gasoline or any volatile petroleum distillate or organic liquid having a vapor pressure of 1.5 p.s.i.a. or greater under actual storage conditions shall be stored in pressure tanks or reservoirs or shall be stored in containers equipped with a floating roof or vapor recovery system or other vapor emission control device.

(c) Stationary gasoline storage tanks with a capacity of 250 gallons or more shall be equipped with either submerged filling inlets or with vapor recovery or emission control systems such that loss of vapor to the atmosphere during filling operations shall be minimized.

(d) Gasoline or petroleum distillate tank car or tank truck loading facilities handling 20,000 gallons per day or more shall be equipped with submersible filling arms or other vapor emission control systems.

§76.8 Disposal of waste.

(a) (1) Waste shall not be burned in open fires in urban areas.

(2) In nonurban areas, there shall not be burned in open fires, within a 24-hour period, more than 25 pounds of waste at a single site nor more than 500 pounds of waste at any number of sites within a 1-mile radius, except that these quantities may be exceeded in the case of onsite burning of waste produced in connection with operations performed at railroad rights-of-way, interurban highways, irrigation canals, forests, agricultural sites, etc., and provided that care is exercised to prevent creation of localized air pollution which endangers health or welfare. Deteriorated or unused explosives, munitions, rocket propellants, and certain hazardous wastes may be burned in open fires, in accordance with recognized procedures.

(3) Wastes shall not be left in open dumps.

(4) Wastes that are disposed of in sanitary landfills shall be disposed of in accordance with procedures described in "Sanitary Landfill Facts" (PHS publication No. 1792, 1968) and any amendments or revisions thereof. Said document is available to any interested person, whether or not affected by the provisions of this part, upon request to the National Air Pollution Control Administration, Rockville, Md. 20852, which maintains an official historic file of the document, or to the Public Health Service Information Center as listed in 45 CFR 5.31 (32 F.R. 9316).

(b) (1) Waste shall be burned only in facilities especially designed for that purpose, except as provided in paragraph (a) of this section.

(2) For incinerators acquired on or after June 3, 1966 the density of any emission to the atmosphere shall not exceed number 1 on the Ringelmann Scale or the Smoke Inspection Guide for a period or periods aggregating more than 3 minutes in any 1 hour, or be of such opacity as to obscure an observer's view to an equivalent degree.

(3) For incinerators acquired prior to June 3, 1966 the density of any emission to the atmosphere shall not exceed number 2 on the Ringelmann Scale or the Smoke Inspection Guide for a period or periods aggregating more than 3 minutes in any 1 hour, or be of such opacity as to obscure an observer's view to an equivalent degree.

(c) (1) In addition, for installations burning more than 200 pounds of waste per hour, emissions shall not exceed 0.2 grain of particulate matter per standard cubic foot of dry flue gas corrected to 12 percent carbon dioxide (without the contribution of carbon dioxide from auxiliary fuel), measured in accordance with the test procedures described in "Specifications for Incinerator Testing at Federal Facilities" (PHS publication, October, 1967) and any amendments or revisions thereof. Said document is available to any interested person, whether or not affected by the

provisions of this part, upon request to the National Air Pollution Control Administration, Rockville, Md. 20852, which maintains an official historic file of the document, or to the Public Health Service Information Center or Regional Office Information Center as listed in 45 CFR 5.31 (32 F.R. 9316).

(2) For installations burning 200 pounds of waste per hour or less, emissions shall not exceed 0.3 grain of particulate matter per standard cubic foot of dry flue gas corrected to 12 percent carbon dioxide (without the contribution of carbon dioxide from auxiliary fuel), measured in accordance with the test specifications described in "Specifications for Incinerator Testing at Federal Facilities" (PHS publication, October 1967) and any amendments or revisions thereof.

(.) Test procedures which are approved by the Commissioner, National Air Pollution Control Administration, as Equivalent to those prescribed by paragraphs (c) (1) and (c) (2) of this section may be used for the purpose of determining an installation's compliance with the emission standards for particulate matter contained in such paragraphs.

[34 F.R. 11419, July 10, 1969]

§76.9 Other pollution producing processes.

For dusts, fumes, or gases from any process not heretofore described, except for discharges of radioactive effluents regulated by the Atomic Energy Commission, whatever measures may be necessary to comply with the intent of these regulations shall be applied. This will generally require the installation of equipment or devices to minimize such emissions to the point where they will meet the standards contained in these regulations. For processes which emit toxic substances in quantities which might endanger health or welfare and for fires which emit smoke or fumes at official firefighting schools, the appropriate department, agency, or establishment shall seek special advice from the Secretary.

APPENDIX B

SUMMARY OF REMEDIAL ACTIONS BY FEDERAL DEPARTMENTS AND AGENCIES -- FY 1970

SUMMARY OF REMEDIAL ACTIONS BY FEDERAL DEPARTMENTS AND AGENCIES -- FY 1970																			
DEPARTMENT OR AGENCY	GRAND TOTALS	FACILITY REPORTS	REMEDIAL ACTIONS	COMPLETED										UNDERWAY				OTHER	
				IMPROVED FUEL BURNING SYSTEMS						IMPROVED WASTE DISPOSAL PRACTICES				VAPOR OR CHEM CONTROL	PROJECT CONTRACTS		PROJECT STUDIES & DESIGNS		
				CONVERSION				NEW CONTROLS INSTALLED		OPEN BURNING STOPPED	INCINERATORS		AWARDED OR UNDER CONST.		OUT FOR BIDS	COMPLETED	IN PROGRESS		
				TO BURN GAS	TO BURN OIL	USING LOWER SULFUR FUEL	BUYING STEAM	SMOKE DETECTORS	SMOKE COLLECTORS		ELIMINATED	UPGRADED						NEW	
		391	500	77	26	18	2	25	7	46	20	11	11	50	26	4	12	110	55
DEFENSE																			
ARMY		78	117	18	15			7	2	2	12	3	3	17	4			22	11
NAVY		71	89	2	1	1		14	2	8	2	2		20				31	4
AIR FORCE		23	46	7	3	7	1		1	1	1	1	3	2		1		2	14
C. ENGINEERS		14	11			2				8			1						
AGRICULTURE		11	11			7											2	2	
ATOMIC ENERGY		16	23	1				4		3	1	2	1		3	1	2		
COMMERCE		1	1												1				
GENERAL SERVICES ADMIN.		72	72	30	4		1					3			7		1		4
HEALTH, EDUCATION & WELFARE		10	14	2						1	2		2			1			
INTERIOR		10	26	3	1					10					1			1	
JUSTICE		13	24	4						7								2	
NAT'L AERONAUTICS & SPACE		6	5			1							1						3
POST OFFICE		23	25		2					5				10		1			7
SMITHSONIAN INSTITUTION		1	1	1															
TENNESSEE VALLEY AUTHORITY		9	10						2										
TRANSPORTATION		3	4			1				1					1			1	
VETERANS ADMINISTRATION		20	20	9											9				1

* "OTHER" - includes: Operational Control programs established, projects discontinued or deferred due to inactivation, phase-out, changed procedures, or found in compliance with regulations.

APPENDIX C

ANNUAL REPORT OF PROGRESS BY INSTALLATION

DURING FISCAL YEAR 1970

DEPARTMENT OF AGRICULTURE

<u>INSTALLATION</u>	<u>ACTION</u>
U. S. NATIONAL ARBORETUM Washington, D. C.	Using fuel oil containing no more than 1% sulfur. Complies with local regulations.
AGRICULTURAL RESEARCH CENTER Beltsville, Maryland	DO
AGRICULTURAL RESEARCH STATION ADP Incinerator-129A ARC Beltsville, Maryland	Design completed for new incinerator in Post Mortem building.
AGRICULTURAL RESEARCH STATION Incinerator-204 ARC Beltsville, Maryland	Funds secured to design and construct a new incinerator.
AGRICULTURAL RESEARCH STATION Heating Plant-309A ARC Beltsville, Maryland	Design completed and funds secured to convert heating plant from coal to gas with #2 oil standby.
PLANT INTRODUCTION STATION Glendale, Maryland	Using fuel oil containing no more than 1% sulfur. Complies with local regulations.
SWC HEAT PLANT #1 Morris, Minnesota	Design completed and funds secured to convert heating plant from #4 oil to gas with #2 oil as standby.
PLANT INSPECTION HOUSE Hoboken, New Jersey	Using fuel oil containing no more than 1% sulfur. Complies with local regulations.
ENTOMOLOGY RESEARCH STATION Moorestown, New Jersey	DO
PLUM ISLAND ANIMAL DISEASE LABORATORY Plum Island, New York	DO
EASTERN UTILITIES RESEARCH AND DEVELOPMENT LABORATORY Wyndmoor, Pennsylvania	DO

ATOMIC ENERGY COMMISSION

INSTALLATION

ACTION

ROCKY FLATS PLANT
Golden, Colorado

Replace existing incinerator with a disintegrator or compliant incinerator.

ARGONNE NATIONAL LABORATORY
Argonne, Illinois

Funds have been secured to convert boilers to natural gas

BURLINGTON PLANT
Burlington, Iowa

Conversion of steam plant to gas completed in December 1969.

PADUCAH GASEOUS DIFFUSION PLANT
Paducah, Kentucky

Wet scrubber has been installed in incinerator.

ATOMIC ENERGY COMMISSION HEADQUARTERS
Germantown, Maryland

Incinerator being designed for refuse disposal.

BENDIX PLANT
Kansas City, Missouri

Installation of gas afterburner and flue gas washer completed in classified waste destructor.

Pulverizer and shredder installed in lieu of incinerator.

KNOLLS ATOMIC POWER LABORATORY
Niskayuna, New York

Stopped open burning. Using sanitary landfill temporarily pending construction of incinerator now out for bid.

KNOLLS ATOMIC POWER LABORATORY
West Milton, New York

Smoke detectors and alarms have been installed on steam plant.

FEED MATERIAL PRODUCTION CENTER
Fernald, Ohio

Convert from coal to natural gas firing.

Replace open burning with sanitary landfill. Install incinerator or disintegrator for classified waste, and special purpose incinerator for uranium recovery.

MOUND LABORATORY
Miamisburg, Ohio

Engineering work proceeding toward conversion of heating plant to gas and installation of special purpose incinerator.

PORTSMOUTH AREA GASEOUS DIFFUSION PLANT
Portsmouth, Ohio

Special purpose incinerator being designed.

SAVANNAH RIVER PLANT
Aiken, South Carolina

Monitors being installed in one of seven steam plants for evaluation purposes. Engineering study for a sanitary landfill is completed.

INSTALLATION

ACTION

OAK RIDGE GASEOUS DIFFUSION PLANT (K-25)
Oak Ridge, Tennessee

Completed installation of smoke recorder.
Study showed electrostatic precipitators not required.

OAK RIDGE NATIONAL LABORATORY
Oak Ridge, Tennessee

Landfill site completed and in operation.

OAK RIDGE OPERATIONS
DIV. OF TECHNICAL INFORMATION
Oak Ridge, Tennessee

Construction of gas-fired boilers now underway.

RICHLAND OPERATIONS OFFICE
Richland, Washington

Packed column counterflow scrubber installed on fume exhaust stack.

Prototype smoke monitors evaluated and monitors for remaining installations being procured.

DEPARTMENT OF COMMERCE

INSTALLATION

U.S. MERCHANT MARINE ACADEMY
Kings Point, Long Island, New York

ACTION

Contract awarded to convert existing
boilers to use natural gas and #2 oil
standby. Scheduled for completion in
September 1970.

DEPARTMENT OF DEFENSE

AIR FORCE

INSTALLATION

ACTION

ACS COMMUNICATIONS STATIONS
Alaska (remote sites)

Project to install incinerators at 11 remote Alaskan sites cancelled because of sale of Stations to RCA

MURPHY DOME AF STATION
Fairbanks, Alaska

Incinerator installed in April 1970.
Project completed.

WILLIAMS AIR FORCE BASE
Chandler, Arizona

Underground jet fuel and aviation gas tanks equipped with submerged inlets.
Project completed.

NORTON AIR FORCE BASE
San Bernardino, California

Modification of liquid storage fill under design for 7 gasoline storage tanks and 2 solvent storage tanks.

U. S. AIR FORCE PLANT 57
Ventura, California

Waste oil separator installed in May 1970.
Eliminates open burning.
Project completed.

DOVER AIR FORCE BASE
Dover, Delaware

Conversion from manual to automatic control at Central Heating Plant under design.

ROBINS AIR FORCE BASE
Warner-Robins, Georgia

Pressure/vacuum valve installed on POL tank and heating plant in Bldg. 230 eliminated by extending steam lines.

CHANUTE AIR FORCE BASE
Rantoul, Illinois

Ash collector hopper repaired.

ANDREWS AIR FORCE BASE
Camp Springs, Maryland

Five boilers in Bldg. 1515 converted to 1% S oil max, in March 1970.
Project completed.

WESTOVER AIR FORCE BASE
Amherst, Massachusetts

Classified waste incinerator has been replaced by a waste destructor in August 1969.

WESTOVER AIR FORCE BASE
Chicopee, Massachusetts

Classified waste incinerator has been replaced by a waste destructor in August 1969.

EALUMET AIR FORCE STATION
Ealumet, Michigan

Coal fired Central Heating Plant converted to oil in August 1969.
Project completed.

WADENA AIR FORCE STATION
Wadena, Minnesota

Project concerning heating plant and dust collector cancelled. Station inactivated in September 1970.

DEPARTMENT OF DEFENSE

<u>INSTALLATION</u>	<u>AIR FORCE</u>	<u>ACTION</u>
KEESLER AIR FORCE BASE Biloxi, Mississippi		Submerged fill pipe installed on one 500 gallon gasoline storage tank in August 1969.
McGUIRE AIR FORCE BASE Burlington, New Jersey		Heating plant 34-02 converted to oil in June 1969.
PALERMO AIR FORCE STATION Atlantic City, New Jersey		Project concerning conversion of heating plant cancelled. Station inactivated in June 1970.
PLATTSBURGH AIR FORCE BASE Plattsburgh, New York		Incinerators in Buildings 2385 and 2008 replaced with new incinerators. Project completed.
STEWART AIR FORCE BASE Newburgh, New York		Project to convert heating plant was cancelled. Station inactivated in December 1969.
MINOT AIR FORCE STATION Minot, North Dakota		Coal fired Central Heating Plant, Bldg. 106 converted to gas with light oil standby in November 1969. Project completed.
CLINTON COUNTY AIR FORCE BASE Wilmington, Ohio		Project to modify ash conveyors for boilers #1 and #2 for service by the ash conveyor system for boilers #3 and #4 not for bids. Modifications to be made at no cost to the government.
FINKE AIR FORCE BASE Oklahoma City, Oklahoma		Venturi scrubber installed on a pathological incinerator in June 1969. Project completed.
HILL AIR FORCE BASE Ogden, Utah		Funding and design completed for conversion of boilers in Bldg. 885 from coal to gas.
W.E. WARREN AIR FORCE BASE Cheyenne, Wyoming		Boilers in Bldgs. 810, 805, 841, 804, 151 and 150 converted from coal to gas in September 1969. Project completed.

DEPARTMENT OF DEFENSE

ARMY

INSTALLATION

ACTION

FORT RUCKER
Daleville, Alabama

440 hand-fired coal furnaces eliminated
by conversion to gas heat in September 1969.

Conversion of central gas-fired heating
plant with coal as standby now underway to
provide oil standby in place of coal.
Conversion of 440 hand-fired coal furnaces
to gas or #2 oil now under design.

PETROLEUM DIST. OFFICE
(Haines-Fairbanks)
Alaska

Review of facilities indicates existing
control measures meet HEW regulations.
Project cancelled.

PETROLEUM DIST. OFFICE
(Whittier - Anchorage)
Alaska

DO

FORT WAINWRIGHT
North Star Borough
Alaska

New incinerator installed to replace two
old oil-fired incinerators in June 1969.

NAVAJO ARMY DEPOT
Flagstaff, Arizona

One coal-fired plant of 4 boilers in Bldg.
S-111 converted to natural gas in March 1970.

FORT CHAFFEE
Fort Smith, Arkansas

Project to provide paper shredder and to
convert coal burning heating plant to gas
cancelled because post is inactive.

FORT ORD
Monterey Co., California

Design underway for repair of old incinerator
as temporary measure until new hospital is
completed.

RIVERBANK ARMY AMMUNITION PLANT
Riverbank, California

Submerged inlet installed on a 1,000 gal.
gasoline tank in May 1969.

SIERRA ARMY DEPOT
Herkon, California

Conversion of 4 central coal-fired boilers
to oil now under design.

FORT CARSON
Colorado Springs, Colorado

Conversion of 208 individual hand-fired coal
burning heating plants to gas now under
design.

FITZSIMONS GENERAL HOSPITAL
Aurora, Colorado

Two incinerators being modified now.

PUEBLO ARMY DEPOT
Pueblo, Colorado

#2 fuel oil now used for two heating plants
using 6 boilers. Change made in September 1969.
Project complete.

INSTALLATION

ACTION

ROCKY MT. ARSENAL
Denver, Colorado

Instruments for expansion of air monitoring network now on order. To be installed when received.

FORT LESLIE J. McNAIR
Washington, D. C.

Now using 1% max. fuel oil. Installed smoke recorder in May 1970.

ATLANTA ARMY DEPOT
Forest Park, Georgia

Conversion of coal fired heating plants to natural gas now under design.

FORT BENNING
Chattahoochee, Georgia

884 coal fired plants at the San Hill Area and 860 coal plants at the Harmony Church Area were converted to LPG and natural gas in May 1970.

HUNTER ARMY AIRFIELD
Savannah, Georgia

12 coal fired heating plants were converted to oil in October 1969.

FORT STEWART
Hinesville, Georgia

Hand-fired coal furnaces converted to gas or #2 fuel oil in October 1969.

Conversion of 2 central coal-fired heating plants to gas with oil standby now under design.

U. S. ARMY RESERVE CENTER
E. St. Louis, Illinois

Conversion of central coal-fired plant to natural gas now underway.

GRANITE CITY ARMY DEPOT
Granite City, Illinois

Conversion of boilers to gas and installation of incinerator cancelled. Installation is to be inactivated in July 1971.

JOLIET ARMY AMMUNITION PLANT
Joliet, Illinois

Conversion of 2 central coal fired heating plants (10-100 MBTUH) to natural gas now underway. Funds for this conversion have been appropriated.

ROCK ISLAND ARSENAL
Rock Island, Illinois

Submerged inlets installed on two gasoline storage tanks in March 1970.

SAVANNAH ARMY DEPOT
Carroll Co., Illinois

Smoke detectors installed on five central oil fired heating plants in May 1970. A shredding machine has replaced an incinerator for disposal of classified waste.

INSTALLATION

ACTION

FORT BENJAMIN HARRISON
Indianapolis, Indiana

30 small coal-fired heating plants were converted to gas and #2 oil in December 1969.

INDIANA ARMY AMMUNITION PLANT
Charlestown, Indiana

Electrostatic precipitators for 5 boilers now under design.

U.S. ARMY RESERVE CENTER
Indianapolis, Indiana

Coal fired heating system converted to gas in September 1969. Project completed.

U. S. ARMY RESERVE CENTER
Lafayette, Indiana

Coal fired heating plant converted to gas in July 1969.

NEWPORT ARMY AMMUNITION PLANT
Newport, Indiana

Fuel conversion not carried out because facility is inactive.

U.S. ARMY RESERVE CENTER
South Bend, Indiana

One coal fired boiler (0-1 MBTUH) to be replaced by direct fired gas unit heaters. Now under design.

U.S. ARMY RESERVE CENTER
Terre Haute, Indiana

Two coal fired heating plants converted to gas and oil.

KANSAS ARMY AMMUNITION PLANT
Parsons, Kansas

Fly ash collectors and over-fire air system installed on 2 coal fired plants.

FORT RILEY
Junction City, Kansas

44 submerged inlets installed on 44 gasoline storage tanks in June 1970.

SUNFLOWER ARMY AMMUNITION PLANT
13 miles east of Lawrence, Kansas

Conversion of gas and coal steam power plant (100-1000 MBTUH) to natural gas and #6 fuel oil now under design. Funds have been appropriated for this conversion.

Fume scrubber for the nitrocotton nitration area now under design.

NICHOLS SUPPORT FACILITY
Louisville, Kentucky

Fuel project cancelled. Facility to be transferred to City of Louisville, Ky.

FORT POLE
Leesville, Louisiana

Submerged inlets and splash plates installed on 60 gasoline storage tanks in August 1969.

INSTALLATION

ACTION

ABERDEEN PROVING GROUND
Aberdeen, Maryland

Project of fuel conversion at 101 coal-fired units (10-100 million BTUH input), 19 units (1-10 million BTUH input), and 87 units (less than 1 million BTUH input) cancelled because of inactivation of this facility.

FORT DETRICK
Frederick, Maryland

Incinerator in Bldg. 1671 now being rehabilitated.

RADIO RECEIVING STATION
Fort Detrick
Frederick, Maryland

Project for submerged inlet cancelled by deactivation of facility in May 1970.

EDGEWOOD ARSENAL
Edgewood, Maryland

Submerged inlets installed on 5 volatile liquid storage tanks (1000-10,000 gals. capacity) in July 1969.

FORT HOLABIRD
Baltimore, Maryland

Submerged inlets now being installed on 12 gasoline storage tanks.

FORT GEORGE MEADE
Odenton, Maryland

Central coal-fired heating plant (3 boilers) and 17 small coal-fired heating plants converted to gas or oil in October 1969.

Submerged inlet for a gasoline storage tank now under design.

NIKE SITE W-44
Waldorf, Maryland

Submerged inlet for a gasoline storage tank now under design.

OFFICE OF CIVIL DEFENSE
Olney, Maryland

Submerged inlet installed on a 5000 gal. gasoline storage tank in November 1969. Project completed.

USASTRATCOM, CONUS
Suitland, Maryland

Submerged inlet installed on a 5,000 gal. gasoline storage tank in September 1969. Project completed.

FORT DEVENS
Ayer, Massachusetts

Coal-fired heating plant now being converted to gas. Submerged inlets being installed on 6 gasoline storage tanks.

MICHIGAN ARMY MISSILE PLANT
Sterling Heights, Michigan

Conversion of one boiler from coal to gas and disconnection of fly ash reinjection from remaining two boilers now under design. Funds have been appropriated for this project.

FORT SNELLING
St. Paul, Minnesota

Combination of gas and oil fired heating plant to be converted to low-sulfur oil - now under design.

INSTALLATION

ACTION

FORT LEONARD WOOD
Waynesville, Missouri

Eight coal-fired heating systems converted to #5 oil; 170 coal furnaces and 11 coal boilers converted to #2 oil. Work completed in June 1969 and January 1969 respectively.

Submerged inlets being installed on 58 gasoline storage tanks.

FORT MISSOULA
Missoula, Montana

4 coal-fired boilers (1-10 MBTUH) and 7 coal-fired boilers (less than 1 MBTUH) converted to gas in October 1969. Project completed.

CORNHUSKER ARMY AMMUNITION PLANT
Grand Island, Nebraska

Incinerator installation cancelled. Waste disposed of in sanitary landfill.

FORT DIX
Fort Dix, New Jersey

Submerged inlets being installed on nine volatile fuel storage tanks.

FORT HANCOCK
(Highlands AADS)
Highlands, New Jersey

Conversion of coal-fired heating plant to gas and standby low sulfur oil now under design.

FORT MONMOUTH (Coles Area)
Red Bank, New Jersey

One central coal-fired heating plant converted to #2 oil in October 1969. Project completed.

FORT MONMOUTH (Main)
Monmouth, New Jersey

3 classified waste incinerators deactivated. One new multi-chamber incinerator (for Type 4 waste) of type approved by the N.J. State Dept. of Health installed in October 1969.

PICATINNY ARSENAL
Dover, New Jersey

In Bldg. 506, two coal-fired boilers to be replaced with one package-type boiler to be fired with gas and #6 oil-now under design. In Bldg. 3013 replacement of boilers and conversion to gas and #6 fuel oil now under design. In Bldg. 3405 standby central coal fired steam generating plant being converted to gas (retaining coal stokers for possible major emergency) - now under design.

WHITE SANDS MISSILE RANGE
Alamogordo, New Mexico

Submerged inlets being installed on 79 gasoline storage tanks.

FORT HAMILTON
Brooklyn, New York

Refrigerators installed December 1969.

HATERVLIET ARSENAL
Hattervliet, New York

Smoke recorders installed on central oil-fired heating plant in June 1969.

INSTALLATION

ACTION

FORT BRAGG
Fayetteville, North Carolina

Conversion of 82nd Division Area central coal-fired heating plant to gas and standby fuel oil now under design. Conversion of 894 coal-fired, hand-fired heating plants now under design.

RIDGEWOOD ARMY AMMUNITION PLANT
Cincinnati, Ohio

Electrostatic precipitators and gas scrubbers projects cancelled because installation is inactive.

INDIANTOWN GAP MILITARY RESERVATION
Annville, Pennsylvania

9 central coal-fired heating plants being converted to oil. Submerged inlets for 44 fuel storage tanks now under design.

VALLEY FORGE GENERAL HOSPITAL
Valley Forge, Pennsylvania

Short stacks eliminated on 9 boilers with breeching to existing 100 ft. stack and smoke detectors installed on all boilers over 10 MBTUH input. Work completed in March 1970.

Construction underway to eliminate short stacks on 9 boilers by connecting to single tall stack. Smoke detectors being installed on boilers.

FORT JACKSON
Columbia, South Carolina

12 coal-fired heating plants converted to oil or gas. Completed in October 1968.

FORT CAMPBELL
Clarksville, Tennessee

Four individual coal-fired plants converted from coal to natural gas in October 1968.

MILAN ARMY AMMUNITION PLANT
Milan, Tennessee

Submerged inlets being installed on 5 gasoline storage tanks.

FORT BLISS
El Paso, Texas

Pulper installed to replace 3 classified waste incinerators in May 1970.

CAMP BULLIS
San Antonio, Texas

Open burning eliminated; waste now contract hauled off base. Project to develop sanitary landfill cancelled.

FORT HOOD
Fort Hood, Texas

Two classified waste incinerators replaced in October 1969 by classified waste shredders.

Water spray system being designed for one pathological incinerator.

FORT SAM HOUSTON
San Antonio, Texas

Open burning of waste oil discontinued; waste oil now sold by Disposal Officer.

FORT WOLTERS
Mineral Wells, Texas

Shredders being installed to replace two (2) classified waste incinerators.

INSTALLATION

ACTION

FORT BELVOIR
Fairfax County, Virginia

One coal-fired heating plant (2 boilers, 10-100 MBTUH) conversion to natural gas with standby, low sulfur oil now under construction.

CAMERON STATION
Alexandria, Virginia

New incinerator replaces old in December 1969. Submerged fill inlets installed on 9 gasoline storage tanks in December 1969.

FORT LEE
Prince Georges County, Virginia

Bldg. 7201, 12054, 3701 and 11300 converted from coal to gas with #2 fuel oil standby in December 1969.

FORT MONROE
Elizabeth City, Virginia

Submerged inlets being installed on 11 gasoline storage tanks.

CAMP PICKETT
Blackstone, Virginia

Construction underway for 4 central coal-fired heating plants to unspecified fuel.

FORT LAWTON
Seattle, Washington

Submerged inlets installed in June 1969 on two, 10,400 gal. gasoline storage tanks. Project completed.

FORT LEWIS
Tacoma, Washington

450 coal-fired units converted to oil or gas in 1969; submerged inlets installed on 5 active gasoline storage tanks in May 1969; two, coal hand fired heating plants replaced by one, oil fired furnace in June 1970; one, coal, stoker-fired heating plant connected to central heating plant to eliminate separate furnace in March 1970.

BADGER ARMY AMMUNITION PLANT
Baraboo, Wisconsin

Conversion of coal-fired Power Plant #1 to oil and gas now under design.

DEPARTMENT OF DEFENSE

CORPS OF ENGINEERS

INSTALLATION

ACTION

SAN FRANCISCO HARBOR AND BAY
Drift Removal
Sausalito, California

Project to replace incinerator discontinued. Incinerator inoperative. Harbor debris will be disposed of in landfill.

JOHN MARTIN RESERVOIR
Hasty, Colorado

Gas-fired incinerator being designed to conform to Colorado State regulations.

POTOMAC & ANACOSTIA RIVERS
Washington, D. C.

Drift removal project. Incinerator on a barge is under design.

RATHBURN RESERVOIR
Appanoose County, Iowa

Discontinued open burning of refuse from recreation area and established a sanitary landfill in May 1970.

KANOPOLIS RESERVOIR
Ellsworth County, Kansas

Sanitary landfill established in March 1970.

PERRY RESERVOIR
Perry, Kansas

Change from open burning to sanitary landfill made in March 1970.

POMONA RESERVOIR
Osage County, Kansas

Sanitary landfill established in March 1970.

TUTTLE RESERVOIR
Riley County, Kansas

Sanitary landfill established in April 1970.

WILSON RESERVOIR
Russell County, Kansas

Sanitary landfill established in March 1969.

BALTIMORE HARBOR DRIFT REMOVAL
Baltimore, Maryland

Open pit incinerator now under design. Harbor debris now being collected, hauled and placed in sanitary landfill.

POMME de TERRE RESERVOIR
Hickory, Missouri

Sanitary landfill established in March 1970.

HARLAN COUNTY RESERVOIR
Harlan County, Nebraska

Sanitary landfill established in March 1970.

OVERFIRE AIR PIT INCINERATOR
Caven Point, New Jersey

Incinerator has been constructed and used for debris disposal.

W. T. PRESTON
Seattle, Washington

Use of lighter oil has enabled this boat to meet local smoke density regulations.

DEPARTMENT OF DEFENSE

NAVY

INSTALLATION

ACTION

MARINE CORPS AIR STATION
Yuma, Arizona

Open burning dump eliminated in July 1969. Refused disposed by contract.

NAVAL AIR STATION
Alameda, California

Submerged fill inlet installed on gasoline storage tanks in June 1969.

(O&M Project)

Pressure breather valves for AVGas storage tanks 97A-97E being installed.

MARINE CORPS SUPPLY CENTER
Barstow, California

Sanitary landfill and plans to eliminate Boiler Plant #3 under design.

NAVAL WEAPONS STATION
Concord, California

Submerged fill inlet installed on gasoline service tanks in June 1969.

NAVAL AIR STATION
Lemore, California

Submerged fill inlet installed on gasoline service tanks in June 1969.

NAVAL AIR STATION
Miramar, California

Development of sanitary landfill on NAS in cooperation with City of San Diego. Under design.

NAVAL AIR STATION, MOFFETT FIELD
Santa Clara, California

Pressure gage indicators and submerged inlets installed on AVGas storage tanks in March and June 1969.

(O&M Project)

Designing a multiple chamber incinerator to replace two inefficient incinerators.

NAVAL POSTGRADUATE SCHOOL (O&M Project)
Monterey, California

Designing pressure breather valve and pressure vacuum gage indicator for AVGas storage tank in Bldg. 55 of Naval Air Facility.

NAVAL AIR STATION, NORTH ISLAND
San Diego, California

7 smoke detectors installed on boiler plant in Bldg. 653 in September 1969.

NAVAL SUPPLY CENTER
Oakland, California

Design underway for canopy and dust collection system for boiler plant tube cleaning operations.

MARINE CORPS BASE (O&M(MARINE CORPS))
Camp Pendleton
Oceanside, California

Smoke detectors installed on boiler plant in Bldg. 653 in September 1969. Control measures for metal plating and surface treating operations under design.

INSTALLATION

ACTION

PACIFIC MISSILE RANGE (O&M Project) Point Mugu Oxnard, California	Smoke detector installation under design. Sanitary landfill also under design to replace 5 open burning dumps.
NAVAL INDUSTRIAL RESERVE ORDNANCE PLANT Pomona, California	Painting facilities rehabilitated. Completed in June 1969.
PUBLIC WORKS CENTER (OPN) San Diego, California	Two smoke detectors being designed for Bldgs. 212-213, Naval Station.
FLEET TRAINING CENTER San Diego, California	Design underway for control system at fire-fighting school.
NAVAL SHIPYARD (HUNTERS POINT) San Francisco, California	Submerged inlets installed on gasoline service tanks in June 1969. Direct flame afterburners for paint bake ovens in Bldgs. 211 and 271 under construction. Conversion of boiler plant in Bldg. 231 to gas with #2 oil standby under design.
NAVAL SHIPYARD (MARE ISLAND) San Francisco, California	Submerged inlets installed on gasoline service tanks in January 1969. Improve- ments to eliminate odors from rubber milling operations in Bldg. 53 completed in January 1969. Direct flame afterburner for paint spray booths and ovens in Bldgs. 334 and 866 under design.
NAVAL FUEL DEPOT San Pedro, California	Vapor collection and flare system being designed to burn excess aviation gas vapors at truck loading stand.
NAVAL STATION (TREASURE ISLAND) San Francisco, California	Smoke collection system and after- burners installed. Completed in May 1969.
MARINE CORPS BASE Twentynine Palms, California	Sanitary landfill being designed to replace open burning dump.

<u>INSTALLATION</u>		<u>ACTION</u>
SUBMARINE BASE New London, Connecticut	(O&M Project)	Smoke detectors being installed at Power Plant Bldg. 29A. Stack insulation being installed in Power Plant Bldg. 29A.
	(OPN)	Smoke detectors being installed on Power Plant Bldg. 29A.
NAVAL COMMUNICATION TRAINING CENTER (CORRY FIELD) Pensacola, Florida		Open burning dump converted to sanitary landfill in July 1969.
NAVAL AIR STATION Jacksonville, Florida	(OPN)	Smoke detectors and recorders being installed in Heating Plant, Bldgs. 104 and 650.
NAVAL HOSPITAL Jacksonville, Florida	(OPN)	Smoke detectors and recorders being installed at Heating Plant, Bldg. 2032.
NAVAL STATION Key West, Florida	(OPN)	Smoke detector and recorder being installed at Boiler Plant NS 116.
NAVAL STATION Mayport, Florida	(OPN)	Smoke recorder being installed at heating plant, Bldg. 250.
PUBLIC WORKS CENTER Pensacola, Florida		Four open burning dumps replaced by sanitary landfill in July 1969.
NAVAL AIR STATION (WHITING FIELD) Milton, Florida		Open burning dump converted to sanitary landfill in July 1969.
MARINE CORP SUPPLY CENTER Albany, Georgia	(O&M) (MARINE CORP)	Sanitary landfill to replace 2 open burning dumps under design.
NAVAL AIR STATION Barbers Point, Hawaii		Sanitary landfill to eliminate open burning dump completed in September 1969.
MARINE CORPS AIR STATION Kaneohe, Hawaii	(O&M Project)	Classified incinerators being modified and replaced in Bldgs. 505 and 1291. Project under design.

<u>INSTALLATION</u>		<u>ACTION</u>
PUBLIC WORKS CENTER Pearl Harbor, Hawaii		New incinerators being designed to replace single chamber incinerators near fire-fighting school site, Aiea, Hawaii.
NAVAL HOSPITAL Great Lakes, Illinois		Alterations to existing incinerator to provide air pollution control, to increase capacity and to improve combustion under design.
PUBLIC WORKS CENTER Great Lakes, Illinois		Conversion from coal to gas with #2 oil completed in April 1970.
NAVAL TRAINING CENTER Great Lakes, Illinois		Controls for fire fighting training school are under design.
NAVAL AMMUNITION DEPOT Crane, Indiana		Submerged inlets installed on underground gasoline tanks in June 1969.
NAVAL INDUSTRIAL RESERVE ORDNANCE Mishawaka, Indiana	(PA&M) (NAVY)	Refuse incinerator being installed to eliminate open dump.
NAVAL AIR STATION Brunswick, Maine	(OPN)	Smoke detectors being installed at heating plant.
NAVAL SHIPYARD RESEARCH DEVELOPMENT CENTER Carderock, Maryland		Smoke detectors installed on heating plant in Bldg. 6 in July 1969.
NAVAL COMMUNICATION STATION Cheltenham, Maryland	(O&M) (PROJECT)	New classified waste incinerator being designed.
NAVAL ORDNANCE STATION Indian Head, Maryland		Chemical incinerator with water scrubber to burn waste liquid chemical is under design.
NAVAL ORDNANCE LABORATORY Silver Spring, Maryland		Smoke detectors installed on heating plant in June 1969.
NAVAL SHIPYARD Boston, Massachusetts		New refuse incinerator being designed.
NAVAL HOSPITAL Chelsea, Massachusetts	(OPN)	Project to improve stack discharge from boiler plant cancelled because hospital is being rebuilt.

<u>INSTALLATION</u>		<u>ACTION</u>
NAVAL AIR STATION Twin Cities, Minnesota		Submerged inlets installed on three gasoline storage tanks in June 1969. Smoke indicators installed on steam plant in June 1969.
NAVAL AUXILIARY AIR STATION Fallon, Nevada		Submerged inlets installed on three gasoline service tanks in June 1969.
	(O&M) (Project)	Smoke density recorder and alarm system for Bldg. 314 being designed.
NAVAL AMMUNITION DEPOT Hawthorne, Nevada		Submerged inlets installed on gasoline service tanks in June 1969.
	(OPN)	Smoke density recording system being designed for boiler plants in Bldgs. 13 and 103-6.
NAVAL AMMUNITION DEPOT Earle, New Jersey		Converted boilers from #4 oil to #2 oil in March 1970.
NAVAL SHIPYARD Brooklyn, New York		Scrubbers and miscellaneous controls installed on incinerator in December 1969.
MITCHELL MANOR HOUSING Garden City, New York	(O&M)	Conversion to gas and #2 oil under design for boilers No. 2B, 4B, 7B, 9B, 11B, 13B, 15B, 17B, 2A, 5A, 8A, 10A and 13A.
NAVAL HOSPITAL St. Albans, New York		Scrubbers and miscellaneous controls installed on incinerator in Jan. 1970. Conversion of heating plant to #2 oil from #6 resid under design.
NAVAL RESERVE TRAINING FACILITY Youngstown, New York		Converted boiler from coal to #2 oil in December 1969.
MARINE CORPS AIR STATION New River, North Carolina	(O&M)	Pressure vacuum vent relief valves being installed on aviation fuel storage facilities.
	(OPN)	Smoke detectors, indicators and alarms being installed on one remaining boiler.
MARINE CORPS BASE (CAMP LEJEUNE) Jacksonville, North Carolina	(O&M) (MARINE CORPS)	Sanitary landfill to replace open burning is under design.

INSTALLATION

ACTION

NAVAL RESERVE TRAINING CENTER
Bethlehem, Pennsylvania

Fuel conversion project cancelled.
Activity disestablished in December
1969.

NAVAL DAMAGE CONTROL TRAINING CENTER
Philadelphia, Pennsylvania

Smoke abatement system under design.

NAVAL SUPPLY DEPOT
Philadelphia, Pennsylvania

Conversion to low sulfur oil and gas
completed in June 1970.

NAVAL STATION
ROOSEVELT ROADS
Humacao, Puerto Rico

Submerged inlets installed on 3 under-
ground gasoline tanks and installed
filters in exhaust fans at paint
spray operations. Project completed
in June 1969.

NAVAL RADIO STATION
Sabana Seca, Puerto Rico

Submerged inlets installed on four
underground gasoline tanks in June
1970.

NAVAL STATION,
SAN JUAN ANNEX
San Juan, Puerto Rico

Submerged inlet and vapor emission
control valves installed on gasoline
service tanks in June 1969.

NAVAL STATION
San Juan, Puerto Rico

Submerged inlet and vapor emission
control valves installed on gasoline
service tanks in June 1969. Completed
in June 1970.

MARINE CORPS,
CAMP GARCIA DETACHMENT
Vieques, Puerto Rico

Vapor emission control valves
installed on 2-2,000 gas. and 4-20,000
gas. gasoline storage tanks in March
1970.

PUBLIC WORKS CENTER (OPN)
Newport, Rhode Island

Smoke detectors under design for 4
boiler plants at this station.

NAVAL AIR STATION (OPN)
(QUONSET POINT)
North Kingston, Rhode Island

New smoke detectors under design to
replace obsolete equipment at NAS,
QUON PT and CBC Davisville Boiler
Plants.

<u>INSTALLATION</u>		<u>ACTION</u>
NAVAL SHIPYARD Charleston, South Carolina	(OPN)	Smoke detector, recorder and alarm being installed on each stack of Bldgs. 123 and 1176.
NAVAL STATION Charleston, South Carolina	(OPN)	Smoke detectors and recorder being installed at Bldgs. 2, 44 and 61 of heating plants.
NAVAL AIR STATION Memphis, Tennessee		Open burning discontinued. Waste hauled to county sanitary landfill in packer trucks. Completed in June 1969.
NAVAL SUPPLY CENTER Norfolk, Virginia		Project for new incinerator cancelled. Refuse disposal by contract. Waste oil destructor being designed.
NAVAL WEAPONS STATION Yorktown, Virginia	(O&M)	Smoke detecting equipment being designed for heating plant, Bldg. 12.
NAVAL AMMUNITION DEPOT Bangor, Washington		Wood shredder for scrap lumber being designed.
	(O&M)	Project to install classified material destructor discontinued because activity was disestablished in July 1970.
NAVAL RADIO STATION (JIM CREEK) Oso, Washington		Refuse incinerator eliminated; commercial collection. Classified waste destructor installed in September 1969.

GENERAL SERVICES ADMINISTRATION
PUBLIC BUILDINGS SERVICE

INSTALLATION

ACTION

FEDERAL CENTER, Bldg. 47
Denver, Colorado

Conversion from coal to gas and #2 fuel oil completed in 1968 but not previously reported.

U.S. Post Office
New Britain, Connecticut

Converted from coal to oil.
Project completed.

U.S. POST OFFICE & COURTHOUSE
New Haven, Connecticut

Converted from coal to gas. Project completed in February 1970.

U. S. POST OFFICE
Stamford, Connecticut

Converted from coal to gas.
Project completed.

CENTRAL HEATING PLANT
13th & C Sts., N.W.
Washington, D. C.

Conversion of boilers from coal to gas-oil heat now under design.

NEW POST OFFICE
Washington, D. C.

Contract has been issued to replace old incinerator with new incinerator.

TEMPO 8
Washington, D. C.

Secondary fuel and an additional chamber has been added to classified waste incinerator.

WEST HEATING PLANT
29th & K Sts., N.W.
Washington, D. C.

Conversion of boilers from coal to gas-oil heat now under design.

U.S. POST OFFICE
Blackfoot, Idaho

Conversion from coal to natural gas completed in 1969.

U.S. POST OFFICE
Orofino, Idaho

Conversion from coal to diesel oil completed in 1969.

U.S. POST OFFICE
Kellogg, Idaho

Design underway to convert from coal to natural gas.

Post Office and Court House
Benton, Illinois

Conversion from coal to gas completed in 1970.

U.S. POST OFFICE
Blue Island, Illinois

Converted from coal to gas. Project completed in 1969.

CHESTNUT ST. P.O. STATION
Chicago, Illinois

Converted from coal to gas. Project completed in 1969.

<u>INSTALLATION</u>	<u>ACTION</u>
U.S. POST OFFICE (BACK BAY ANNEX) Boston, Massachusetts	Converted from coal to purchased steam. Project completed.
U. S. POST OFFICE Brockton, Massachusetts	Converted from coal to gas. Project completed in March 1970.
U. S. POST OFFICE Fitchburg, Massachusetts	Converted from coal to gas heat. Project completed in December 1969.
U. S. POST OFFICE Lowell, Massachusetts	Converted from coal to oil heat. Project completed.
FEDERAL CENTER Battle Creek, Michigan	Design for installation of 3 new gas fired boilers was 90% complete as of 5/4/70. Contract awarded in August 1970.
U. S. POST OFFICE Anoka, Minnesota	Conversion of coal fired boiler to natural gas is underway.
POST OFFICE & CUSTOM HOUSE St. Paul, Minnesota	Design underway for gas burner in incinerator and screen over top of smoke stack.
FEDERAL BUILDING Twin Cities, Minnesota	Burner changes under design to use #2 fuel oil.
U. S. POST OFFICE Ardmore, New Jersey	Converted to gas with #2 oil standby. Project completed in 1969.
POST OFFICE East Orange, New Jersey	Conversion to gas and #2 oil as standby, underway.
U.S. POST OFFICE Dover, New Jersey	Conversion to gas with #2 oil standby. Project completed in 1969.
U. S. POST OFFICE Glen Ridge, New Jersey	Converted to gas with #2 oil standby. Project completed in 1969.
U. S. POST OFFICE Princeton, New Jersey	DO
U. S. POST OFFICE Riverton, New Jersey	DO
SCOTIA DEPOT Scotia, New York	Conversion to gas and #2 oil as standby underway.

<u>INSTALLATION</u>	<u>ACTION</u>
POST OFFICE & COURTHOUSE Charlotte, North Carolina	New gas fired boiler installed in January 1968, but project was not previously reported. Eliminates coal fired boiler.
POST OFFICE & COURT HOUSE Raleigh, North Carolina	Contract for fuel conversion awarded in June 1970. From coal to unnamed fuel.
LAKEWOOD POSTAL STATION Cleveland, Ohio	Conversion of boiler to gas fuel under design.
U.S. POST OFFICE & COURT HOUSE Columbus, Ohio	Three coal/gas boilers to be converted to all gas firing. Project under design.
U.S. POST OFFICE Findlay, Ohio	Boiler being converted to gas fuel.
U.S. POST OFFICE Hamilton, Ohio	Conversion of boiler to gas/oil under-way.
SPRING GARDEN STATION P.O. Philadelphia, Pennsylvania	Converted to gas with #2 oil standby. Project completed in 1969.
U.S. POST OFFICE Phoenixville, Pennsylvania	DO
FEDERAL CENTER Denton, Texas	New paper pulper under design to replace incinerator.
U.S. POST OFFICE & COURTHOUSE Brattleboro, Vermont	Design completed for conversion from coal to oil heat.
U.S. POST OFFICE AND COURTHOUSE Rutland, Vermont	Converted from coal to oil. Project completed.
FEDERAL BUILDING NO. 2 Arlington, Virginia	Transfer of incinerator from Navy Bldg. (No. 080027) to FOB 2 under design.
VIRGINIA HEATING PLANT (Pentagon Power Plant) Arlington, Virginia	Conversion of coal boilers to gas-oil heat now under design.
POST OFFICE AND COURT HOUSE Charlottesville, Virginia	Design underway for replacement of coal boilers with gas/oil boilers.
FRANCONIA B BUILDING Fairfax, Virginia	A scrubber has been installed on existing incinerator in 1969.

<u>INSTALLATION</u>	<u>ACTION</u>
POST OFFICE Hampton, Virginia	Scrubber and afterburner for incinerator now under design.
CUSTOMHOUSE Norfolk, Virginia	DO
POST OFFICE AND COURT HOUSE Norfolk Virginia	DO
POST OFFICE Petersburg, Virginia	DO
FEDERAL BUILDING Portsmouth, Virginia	DO
MAIN POST OFFICE Richmond, Virginia	Replacement of coal boilers with gas/oil boilers now under construction.
U.S. POST OFFICE Chehalis, Washington	Conversion from coal to gas completed in 1969.
U.S. POST OFFICE Pasco, Washington	DO
U.S. POST OFFICE Pullman, Washington	Design underway for conversion from coal to either natural gas or diesel oil.
POST OFFICE Charleston, West Virginia	Scrubber and afterburner for incinerator now under design.
FEDERAL BUILDING LaCrosse, Wisconsin	One boiler being converted to gas fuel; other boiler discontinued.
U.S. POST OFFICE Racine, Wisconsin	Conversion to gas completed in 1969.
U.S. POST OFFICE Sheboygan, Wisconsin	Converted from coal to gas. Completed in 1970.

DEPARTMENT OF HEALTH, EDUCATION,
AND WELFARE

INSTALLATION

ACTION

GALLAUDET COLLEGE
Washington, D. C.

Incinerators discontinued, trash now being removed by contract hauling.

ST. ELIZABETHS HOSPITAL
Washington, D. C.

Design complete for replacement of four coal-fired boilers with gas fired units.

NATIONAL CENTER FOR DISEASE CONTROL
Lawrenceville, Georgia

Design completed for incinerator exhaust gas scrubber.

NATIONAL INSTITUTE OF MENTAL HEALTH
Lexington, Kentucky

Contract hauling of trash replaces open burning. Coal-fired boilers replaced by gas fired units.

NATIONAL INSTITUTES OF HEALTH
Bethesda, Maryland

Design for incinerator completed and bids out for construction.

NORTHEAST RADIOLOGICAL HEALTH LABORATORY
Winchester, Massachusetts

Design completed to convert burners to use fuel containing less than 1% sulfur. Shortage of this fuel is holding up completion of conversion.

PUBLIC HEALTH SERVICE HOSPITAL
Boston, Massachusetts

New incinerator being installed.

U.S. PUBLIC HEALTH SERVICE HOSPITAL
Staten Island, New York

Conversion to gas with #2 oil standby has been completed.

OUTPATIENT CLINIC
Philadelphia, Pennsylvania

Multiple chamber incinerator installed. Project complete.

NATIONAL INSTITUTE OF MENTAL HEALTH
CLINICAL RESEARCH CENTER
Fort Worth, Texas

Incinerator discontinued. Trash hauled to county landfill.

DEPARTMENT OF INTERIOR

BONNEVILLE POWER ADMINISTRATION

INSTALLATION

ACTION

Substation at
Alvey, Oregon

Under design.

Various locations
(unspecified)

Purchasing chipping machines to
supplant maintenance slash burning;
contracting for garbage disposal
services to eliminate open burning and
incineration of garbage; discontinuing
slash burning during construction
right-of-way clearing.

BUREAU OF SPORT FISHERIES AND WILDLIFE

CRAB ORCHARD NATIONAL WILDLIFE REFUGE
Carterville, Illinois

Three Federally owned heating units
were converted from coal to gas by the
lessees in FY 1970 at no cost to the
Federal government.

Industrial lessees of the six remaining
heating units have been requested to
convert to gas or #2 fuel oil by
Dec. 31, 1972 at no cost to the Federal
government.

BUREAU OF INDIAN AFFAIRS

HOPÍ INDIAN HEADQUARTERS
Keams Canyon, Arizona

Conversion of boilers from #5 oil to
#2 oil completed.

FORT DEFIANCE HEADQUARTERS N36-01
Fort Defiance, Arizona

Conversion of boilers from coal to
gas under design

Kayenta Boarding School, N33-08
Kayenta, Arizona

Conversion of boilers from coal to
#2 oil under design.

NAZLINE BOARDING SCHOOL, N35-09
Nazline, Arizona

Conversion of boilers from coal to
gas under construction.

TUBA CITY AGENCY HEADQUARTERS, N33-01
Tuba City, Arizona

Conversion of boilers from #6 oil to
#2 oil under design.

WINDOW ROCK HEADQUARTERS, N00-02
Window Rock, Arizona

Conversion of boilers from coal to
gas under design.

HASKELL INSTITUTE
Lawrence, Kansas

Project discontinued. Re-evaluation
of use of #5 oil indicates negligible
pollution.

<u>INSTALLATION</u>	<u>ACTION</u>
OGLALA COMMUNITY SCHOOL Pine Ridge, South Dakota	Conversion of boilers from coal to #2 oil completed.
INTERMOUNTAIN SCHOOL, N10-01 Brigham City, Utah	Conversion of boilers from coal to gas and establishment of landfill completed.

NATIONAL PARK SERVICE

DEATH VALLEY NATIONAL MONUMENT Death Valley, California	Sanitary landfill scheduled for 1972 to replace open burning of waste.
GRAND CANYON NATIONAL PARK South Rim, Arizona	Established sanitary land-fills in place of original incinerator construction projects.
GRAND CANYON NATIONAL PARK North Rim, Arizona	Discontinued incinerator. Landfill in operation.
GRAND CANYON NATIONAL PARK Desert View, Arizona	DO
VARIOUS SITES (UNSPECIFIED)	Discontinued open burning at 27 NPS areas in 1968 - 1969. Refuse disposal converted to sanitary landfill at 22 NPS sites from 1968 to date. Contracted for commercial collection and disposal of solid waste at 4 NPS areas to date.

DEPARTMENT OF JUSTICE

BUREAU OF PRISONS

INSTALLATION

ACTION

FEDERAL CORRECTIONAL INSTITUTE
Lompac, California

Design underway to upgrade waste handling equipment to improve landfill operations.

U. S. PENITENTIARY
Atlanta, Georgia

Design underway to incinerate combustible and haul non-combustibles to sanitary landfill operated by Atlanta.

U. S. PENITENTIARY
Marion, Illinois

Design underway to improve sanitary landfill operations.

U. S. PENITENTIARY
Terre Haute, Indiana

Conversion of four coal boilers to gas and #2 oil standby underway. Also designing three retort-type incinerators for combustible wastes.

U. S. PENITENTIARY
Leavenworth, Kansas

Design underway to haul wastes to City of Leavenworth landfill.

FEDERAL YOUTH CENTER
Ashland, Kentucky

Plans completed to obtain suitable equipment to haul dry wastes to commercial landfill.

MEDICAL CENTER FOR FEDERAL PRISONERS
Springfield, Missouri

Design underway to provide compactors and waste storage containers and to contract for disposal of waste. Plan to incinerate pathological wastes.

U. S. PENITENTIARY
Lewisburg, Pennsylvania

Design underway to provide controls on incinerator and to landfill non-combustibles.

FEDERAL CORRECTIONAL INSTITUTE
LaTana (Anthony), Texas

Design underway to improve sanitary landfill operations.

FEDERAL CORRECTIONAL INSTITUTE
Seagoville, Texas

Design underway to install retort type incinerator and develop landfill for non-combustibles.

U.S. PENITENTIARY
McNeil Island
Steilacoom, Washington

Design underway to improve sanitary landfill operations.

FEDERAL REFORMATORY FOR WOMEN
Alderson, West Virginia

Single retort-type 600 lb./hr. incinerator under design.

IMMIGRATION AND NATURALIZATION SERVICE

INSTALLATION

ACTION

VARIOUS LOCATIONS
(UNSPECIFIED)

Discontinued open burning at seven locations. Arrangements made for trash disposal by public or private means.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

INSTALLATION

ACTION

MARSHALL SPACE FLIGHT CENTER
Huntsville, Alabama

Smoke abatement project completed at the steam plant in August 1969, as an emergency project.

AMES RESEARCH CENTER
Moffett Field, California

Projects to install centrifugal separator and scrubber in Bldg. 212 and for installation of a fume scrubber in Bldg. 211 have been discontinued. Activities contributing to air pollution have been relocated to other facilities capable of handling the vapor emissions.

NASA INDUSTRIAL PLANT
Downey, California

Project to design new booth and equipment for paint solvent vapor control discontinued. Paint reformulation provides for compliance with air pollution regulations.

MICHOUD ASSEMBLY FACILITY
New Orleans, Louisiana

Incinerator construction completed in November 1969. Other projects deferred by production shutdown.

GODDARD SPACE FLIGHT CENTER
Greenbelt, Maryland

Change to low sulfur fuel completed in June 1970.

MANNED SPACECRAFT CENTER
Houston, Texas

Installation of oxidizer vapor burners and scrubber is deferred pending re-examination of engine fuel composition.

POST OFFICE DEPARTMENT

<u>INSTALLATION</u>	<u>ACTION</u>
P. O. GARAGE Anaheim, California	Submerged fill pipe installed in gasoline storage tank. Completed in September 1969
P. O. GARAGE Berkeley, California	DO
P. O. GARAGE Los Angeles, California	DO
P. O. CENTRAL GARAGE Los Angeles, California	DO
P. O. SOUTH AUXILIARY GARAGE Los Angeles, California	DO
P. O. GARAGE Pomona, California	DO
P. O. GARAGE San Fernando, California	DO
P. O. GARAGE San Francisco, California	DO
P. O. GARAGE San Mateo, California	DO
POST OFFICE Casey, Illinois	Project discontinued. Trash now disposed of by landfill.
POST OFFICE Crete, Illinois	Contract trash removal to eliminate open burning on site.
POST OFFICE Ottawa, Illinois	DO
POST OFFICE River Grove, Illinois	Project discontinued. Trash now burned in incinerator available in nearby building.
POST OFFICE Beltsville, Maryland	Contract trash removal to eliminate open burning at site. Project completed.
FENKELL STATION P. O. Detroit, Michigan	Project discontinued. Building to be remodeled and gas heat provided.
POST OFFICE Freeland, Michigan	Contract trash removal to eliminate open burning on site.

INSTALLATION

ACTION

POST OFFICE
Livonia, Michigan

Project discontinued. Trash burned in incinerator in nearby building.

POST OFFICE
Romulus, Michigan

Contract trash removal to eliminate open burning on site.

P. O. GARAGE
Reno, Nevada

Submerged fill pipe installed in gasoline storage tank. Completed in September 1969.

RIVERSIDE DETACHED UNIT
Reno, Nevada

Project discontinued. Heating plant for building found to be non-polluting.

BAYCHESTER STATION P. O.
Bronx, New York

Contract to convert heating plant to #2 oil has been rescheduled from FY 1970 to FY 1971.

GERARD AVENUE GARAGE
Bronx, New York

New bids being solicited to convert heating plant to #2 oil after first contractor defaulted.

THROGGS NECK STATION P. O.
Bronx, New York

Contract to convert heating plant to #2 oil has been rescheduled from FY 1970 to FY 1971.

WESTCHESTER STATION P. O.
Bronx, New York

DO

WILLIAMSBURG STATION P. O.
Bronx, New York

DO

PARCEL POST ANNEX
Brooklyn, New York

DO

RUGBY STATION P. O.
Brooklyn, New York

DO

GRACIE STATION P. O.
NEW YORK, New York

DO

MIDTOWN STATION P. O.
New York, New York

Completed conversion of heating plant to #2 oil.

INSTALLATION

ACTION

PECK SHIPS STATION P. O.
New York, New York

Contract to convert heating plant to
#2 oil has been rescheduled from FY 1970
to FY 1971.

36th ST. FACILITY
New York, New York

Completed conversion of heating plant to
#2 oil.

53rd ST. GARAGE
New York, New York

Project discontinued. Building is to be
demolished.

P. O. ANNEX
Yonkers, New York

DO

SMITHSONIAN INSTITUTION

INSTALLATION

NATIONAL ZOOLOGICAL PARK
Washington, D. C.

ACTION

Conversion to gas for heating is proceeding as scheduled and should be completed in the near future.

Incinerator repair or replacement, although funded by Congress, has not yet been accomplished.

TENNESSEE VALLEY AUTHORITY

INSTALLATION

COLBERT STEAM PLANT (5)
Tuscumbia, Colbert Co., Alabama

NATIONAL FERTILIZER DEVELOPMENT CENTER
Muscle Shoals, Alabama

ACTION

Engineering studies underway to find best method of meeting fly ash emission standards considering recent technological development in SO₂ removal processes.

Design underway for 97% efficient electrostatic precipitators in series with existing mechanical collectors.

Canopy hood and wet centrifugal collector under design to control taphole fume emissions from No. 5 and No. 6 phosphoric furnaces. Will control P₂O₅ and F.

Dust collection equipment in grate-kiln system needs to be modified by either contractor or TVA to meet the original dust control specifications of contract under which equipment was installed. Operations resulting in discharge of ammonia from absorber in synthesis purge gas system are being modernized to provide better control.

For the No. 3 nitric acid unit stack and storage tank vents, a refrigerated cooling water system is being designed to increase recovery of nitrogen oxides, thereby decreasing the emission of NO_x in the exhaust gases.

System under design for the No. 3 nitric acid unit stack to react NO_x and O₂ in the gases with a fuel in the presence of a catalyst to reduce NO_x to N.

System under design to permit some additional use of CO gas as fuel and decrease amount flared.

INSTALLATION

ACTION

Widows Creek Steam Plant (7-8)
Stevenson, Jackson Co., Alabama

Engineering studies underway to find best method of meeting fly ash emission standards considering recent technological developments in SO₂ removal processes.

SHAWNEE STEAM PLANT (1-10)
Paducah, McCracken Co., Kentucky

Mechanical collectors and electrostatic precipitators providing 99% overall collection efficiency installed. Project completed in June 1970.

GALLATIN STEAM PLANT (1-4)
Gallatin, Tennessee

DO

ALLEN STEAM PLANT
Memphis, Tennessee

Design underway to replace existing electrostatic precipitators (70% efficient) with new electrostatic precipitators (99% efficient).

JOHNSONVILLE STEAM PLANT
New Johnsonville, Tennessee

Design underway for 97% efficient electrostatic precipitators in series with existing mechanical collectors.

JOHN SEVIER STEAM PLANT
Rogersville, Tennessee

DO

VARIOUS LOCATIONS
(Special procedures during periods of high air pollution potential)

At the Kingston Power Plant during the adverse atmospheric stagnation periods from August 15 to December 15 of each year, low-sulfur coal is to be used to reduce SO_x emissions.

At the Paradise Power Plant an operational control program has been developed and implemented. Under this program, the plant's generating capacity is reduced when adverse SO_x dispersion conditions are expected. Reductions may occur about 25 days per year with the present program.

An operational control program also is being developed for the Widow's Creek Power Plant. A contract has been awarded for the purchase of 1.35 million tons per year of approximately 0.7% sulfur coal with full contractual delivery being reached in 1971.

Similar plans are being developed for operational control programs at the National Fertilizer Development Center.

DEPARTMENT OF TRANSPORTATION

U. S. COAST GUARD

INSTALLATION

ACTION

BOSTON BASE

Beston, Massachusetts

Conversion of heating boilers to use low-sulfur fuel is under design.

ELIZABETH CITY AIR STATION

Elizabeth City, North Carolina

Open trash burning discontinued. Containerized trash picked up by municipality. Project complete.

NEW YORK BASE

Governors Island, New York

Conversion of heating plant to use low-sulfur fuel (#2 oil) is ~~under construction~~ *has been completed.*

ST. GEORGE BASE

St. George, New York

Conversion of heating plant to low-sulfur fuel is completed.

VETERANS ADMINISTRATION

INSTALLATION

ACTION

VA Hospital
West Haven, Connecticut

Boilers converted to gas.

VA Hospital
Marion, Indiana

Boilers converted to gas.

VA Hospital
Iowa City, Iowa

Project to convert one boiler to gas has been dropped. Full station load carried by gas-fired boilers.

VA Hospital
Fort Thomas, Kentucky

Coal-fired boilers replaced with gas and #2 oil.

VA Hospital
Battle Creek, Michigan

Boilers converted to gas.

VA Hospital
St. Cloud, Minnesota

Conversion to gas and #2 oil.

VA Hospital
East Orange, New Jersey

Conversion of boilers from #6 oil to gas under construction.

VA Hospital
Batavia, New York

Replacement of coal-fired boilers under construction. Conversion to #2 oil.

VA Center
Bath, New York

Replacement of coal fired boilers under construction. Conversion to gas and #2 oil.

VA Hospital
Bronx, New York

Replacement of #6 oil-fired boilers under construction. Conversion to gas and #2 oil.

VA Hospital
Montrose, New York

Boilers converted to gas.

VA Hospital
Chillicothe, Ohio

Replacement of boiler plant under construction. Conversion to gas and #2 oil.

INSTALLATION	ACTION
VA Hospital Butler, Pennsylvania	Replacement of coal fired boilers under construction. Conversion to gas and #2 oil.
VA Hospital Pittsburgh, Pennsylvania (G.M.)	Conversion of boilers from coal to gas under construction.
VA Center Mt. Home, Tennessee	Replacement of boiler plant under construction.
VA Center Hampton, Virginia	Replacement of boiler plant under design. Conversion to gas and #2 oil.
VA Hospital Richmond, Virginia	Replacement of boiler plant under construction. Conversion to gas and #2 oil.
VA Hospital Salt Lake City, Utah	Boilers converted to gas.
VA Hospital Madison, Wisconsin	Boilers converted to gas.
VA Hospital Vancouver, Washington	Boilers converted to gas.

APPENDIX D

STATEMENT BY THE PRESIDENT

October 26, 1970

At my request, the Administrator of General Services today issued the attached regulation which requires that federally-owned vehicles use low-lead or unleaded gasoline whenever this is practical and feasible. The purposes of this regulation are two-fold: to reduce air pollution and to increase the market for low-lead and unleaded gasoline, in order to make such fuels more generally available.

I have also today written to the Governors of our fifty States suggesting that they take similar steps in their Administrations. If all government agencies -- Federal, State, and local -- were to adopt this policy, we could not only reduce pollution, but we could also provide a sizeable incentive for production and distribution of low or unleaded fuels and thus make them more readily available.

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TEXT OF A LETTER FROM THE
PRESIDENT TO THE GOVERNORS
OF THE FIFTY STATES

Dear Governor:

At my request, the Administrator of General Services today issued the attached regulation which requires that federally-owned vehicles use low-lead or unleaded gasoline whenever this is practical and feasible. The purposes of this regulation are two-fold: to reduce air pollution and to increase the market for low-lead and unleaded gasoline, in order to make such fuels more generally available.

If your State would undertake a similar program, our joint action would offer the gasoline refinery and marketing industries a sizeable incentive to produce and distribute low-lead and lead-free gasoline. As the production and distribution of such fuels become widespread, the motorist will be able to buy them and thus make a major contribution to the cleaning up of our air. I hope you can join in this effort.

Sincerely,

/s/ RICHARD NIXON

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FEDERAL PROPERTY MANAGEMENT REGULATIONS
TEMPORARY REGULATION E-12

TO : Heads of Federal Agencies

SUBJECT: Gasoline for use in motor vehicles

1. Purpose. This regulation establishes a revised standard for gasoline designed to further the use of unleaded and low-lead content gasoline in motor vehicles.
2. Effective date. This regulation is effective upon publication in the Federal Register, however existing contracts need not be revised or amended merely to conform to the provisions of this regulation.
3. Expiration date. This regulation expires July 31, 1971, unless sooner revised or superseded. Prior to this expiration date, this regulation will be codified in the permanent regulations of GSA appearing in Title 41, CFR, Public Contracts and Property Management.
4. Applicability. The provisions of this regulation apply to all executive agencies. Other Federal agencies are encouraged to conform so that maximum benefits may be realized.
5. Background. The phasing out of the use of leaded gasoline is an important step toward cleaner air. Lead in gasoline has two adverse effects: Lead emissions into the air can be harmful to health; and lead inhibits the use of other pollution control devices. In keeping with the President's goal of reducing pollution and improving the quality of the environment, it is appropriate that the Government take full advantage of the availability of recently developed unleaded and low-lead content gasolines by using such fuels in Federal vehicles, except when it is clearly impractical or unfeasible to do so. The objective of this regulation, therefore, is to promote and effect the utilization of unleaded and low-lead content gasolines by providing an assured market for such fuels in Federal vehicles. The existence of such an assured market will hasten the development of refinery and distribution capability that can also serve the general motorist.
6. Use standards for gasoline. Unleaded or low-lead content gasoline (low-lead content gasoline is defined as containing 0.5 gm./gal lead) shall be used in Government-operated vehicles within the 50 States except when it is clearly impractical or unfeasible to do so. The cost of gasoline shall not be used as a factor in determining the practicability or feasibility of using unleaded or low-lead content gasolines; however, manufacturers' recommendations on octane requirements shall be generally followed. Gasoline for use in overseas Government-operated vehicles shall be limited to unleaded or low-lead content gasoline unless; (1) such use would be in conflict with country-to-country or multinational logistics agreements and (2) such gasoline is not locally available at competitive prices.
7. Purchase of or contracts for gasoline. All contracts entered into after the effective date of this regulation shall provide for procurement

of unleaded or low-lead content gasoline in conformance with paragraph 6 above. Where intermediate activities perform a procurement function for other agencies, the type of gasoline procured will be dependent on the needs of the requiring or issuing activity, however, the latter activity shall also be guided by the provisions of paragraph 6.

8. Effect on other issuances. This regulation revises and supersedes the use standards for gasoline set forth in FPMR 101-25.303.

9. Comments or suggestions. Agency views concerning the effect or impact of this regulation on agency operations or programs should be submitted to General Services Administration (FF), Washington, D. C. 20406, no later than February 28, 1971, for consideration and possible incorporation into the permanent regulation.

/s/ ROBERT L. KUNZIG
Administrator of General Services