

4222

**PERMIT TO INSTALL HAMILTON COUNTY
APPLICATION NO.: 14-2814 NESHAPS**

03/10/93

**OEPA/DOE-FN
15
LETTER**



State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149
(614) 644-3020
FAX (614) 644-2329

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AR
MAR 12 2 53 PM '93

George V. Voinovich
Governor
Donald R. Schregardus
Director

Re: Permit to Install
Hamilton County
Application No: 14-2814
NESHAP

CERTIFIED MAIL

March 10, 1993

US DEPT OF ENERGY, FERNALD ENVIR MGMT PR
BEHRAM SHROFF
7400 WILLEY RD
FERNALD, OH 45239

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions I urge you to read it carefully.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Board of Review pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed with the Environmental Board of Review within thirty (30) days after notice of the Director's action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Board. An appeal may be filed with the Environmental Board of Review at the following address:

Environmental Board of Review
236 East Town Street, Room 300
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager
Field Operations & Permit Section
Division of Air Pollution Control

cc: US EPA
CINCINNATI AIR POLLUTION , DAPC

Submit FEE

Permit to Install Terms and Conditions

Application No. 14-2814
APS Premise No. 1431110128
Permit Fee: \$980.00

Name of Facility: US DEPT OF ENERGY, FERNALD ENVIR MGMT PR

Person to Contact: BEHRAM SHROFF

Address: 7400 WILLEY RD
FERNALD, OH 45239

Location of proposed source(s): 7400 WILLEY RD, PLANT 8
FERNALD, OHIO

Description of proposed source(s):
PLANT 8 SUMP SYSTEM WITH DEMISTER PAD, BAG FILTER, FABRIC FI
LTER AND HEPA FILTER - MODIFICATION OF PTI 14-1856.

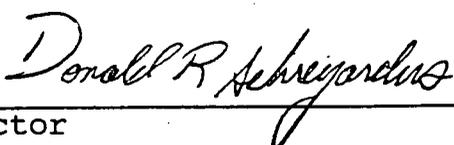
Date of Issuance: March 10, 1993

Effective Date: March 10, 1993

The above named entity is hereby granted a permit to install for the above described source(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described source(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described source(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

TERMINATION OF PERMIT TO INSTALL

Substantial construction for installation must take place within 18 months of the effective date of this permit. This deadline may be extended by up to 12 months, if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

NOTICE OF INSPECTION

The Director of the Ohio Environmental Protection Agency, or his authorized representatives, may enter upon the premises of the above-named applicant during construction and operation at any reasonable time for the purpose of making inspections, conducting tests, or to examine records or reports pertaining to the construction, modification or installation of the source(s) of environmental pollutants identified within this permit.

CONSTRUCTION OF NEW SOURCE(S)

The proposed source(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed source(s) has already begun or has been completed prior to the date the Director of the Ohio Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of Ohio Administrative Code (OAC) Rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

PERMIT TO INSTALL FEE

In accordance with Ohio Revised Code 3745.11, the specified Permit to Install fee must be remitted within 15 days of the effective date of this permit to install.

PUBLIC DISCLOSURE

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC Rule 3745-49-03.

APPLICABILITY

This Permit to Install is applicable only to the contaminant sources identified. Separate application must be made to the Director for the installation or modification of any other contaminant sources.

BEST AVAILABLE TECHNOLOGY

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

PERMIT TO OPERATE APPLICATION

A Permit to Operate application and a \$15 application fee must be submitted to the appropriate field office for each air contaminant source in this Permit to Install. In accordance with OAC Rule 3745-35-02, the application shall be made at least 90 days prior to start-up of the source.

AIR EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for US DEPT OF ENERGY, FERNALD ENVIR MGMT PR located in Hamilton County. The sources listed below shall not exceed the emission limits/control requirements contained in the table. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>Ohio EPA Source Number</u>	<u>Source Identification/Description</u>	<u>BAT Determination</u>	<u>Applicable Federal and OAC Rules</u>	<u>Permit Allowable Mass Emissions and/or Control & Usage Requirements</u>
P259	Plant 8 Sump Precoat Process	Bag Filter 99% Efficient	3745-31-05 3745-15-07 3745-17-07 3745-17-11	4.88×10^{-2} lbs/hr PM, No Visible Emissions From Control Device
P260	Plant 8 Sump Wastewater Treatment Process	Cartridge Filter and HEPA Filter For Drumming Stations; Demister Pad Assembly For Feed Tanks	3745-31-05 3745-15-07 3745-17-07 3745-17-11 40 CFR 61, Subpart H	2.75×10^{-2} lbs/hr PM, 3.10×10^{-4} lbs/hr Uranium; No Visible Emissions From Control Device

SUMMARY

TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM/PM ₁₀	.228
Uranium	1.36×10^{-3}

RADIONUCLIDES NESHAP REQUIREMENTS

The following source(s) are subject to the applicable provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP) as promulgated by the United States Environmental Protection Agency under 40 CFR Part 61.

<u>Source No.</u>	<u>Source Description</u>
P260	Plant 8 Sump System Wastewater Treatment Process

The application and enforcement of these standards are performed by the United States Environmental Protection Agency.

Pursuant to the NESHAP, the source owner/operator is required to report the following milestones:

1. Date of commencement of construction (no later than 30 days after such date);
2. Anticipated date of initial start-up (not more than 60 days or less than 30 days prior to such date);
3. Actual date of initial start-up (within 15 days after such date); and
4. Date of performance testing (at least 30 days prior to testing).

Reports are to be sent to:

United States Environmental Protection Agency
David Kee
Air & Radiation Branch (5AR-26)
230 South Dearborn Street
Chicago, IL 60604

and Ohio Environmental Protection Agency
Division of Air Pollution Control
Field Operations and Permit Section
P.O. Box 1049
Columbus, OH 43266-0149

and

Dept. of Environmental Services
Air Quality Program
1632 Central Parkway
Cincinnati, Ohio 45210

RECORD(S) RETENTION AND AVAILABILITY

All records required by this Permit to Install shall be retained on file for a period of not less than two years unless otherwise indicated by Ohio Environmental Protection Agency. All records shall be made available to the Director, or any authorized representative of the Director, for review during normal business hours.

REPORTING REQUIREMENTS

Unless otherwise specified, reports required by the Permit to Install need only be submitted to SW Ohio Air Pollution Control Agency 1632 Central Parkway, Cincinnati, Ohio 45210.

WASTE DISPOSAL

The owner/operator shall comply with any applicable state and federal requirements governing the storage, treatment, transport and disposal of any waste material generated by the operation of the sources.

MAINTENANCE OF EQUIPMENT

This source and its associated air pollution control system(s) shall be maintained regularly in accordance with good engineering practices and the recommendations of the respective manufacturers in order to minimize air contaminant emissions.

MALFUNCTION/ABATEMENT

In accordance with OAC Rule 3745-15-06, any malfunction of the source(s) or associated air pollution control system(s) shall be reported immediately to the SW Ohio Air Pollution Control Agency, 1632 Central Parkway, Cincinnati, Ohio 45210.

Except as provided by OAC Rule 3745-15-06(A)(3), scheduled maintenance of air pollution control equipment that requires the shutdown or bypassing of air pollution control system(s) must be accompanied by the shutdown of the associated air pollution sources.

AIR POLLUTION NUISANCES PROHIBITED

The air contaminant source(s) identified in this permit may not cause a public nuisance in violation of OAC Rule 3745-15-07.

NINETY DAY OPERATING PERIOD

The facility will be permitted to operate during a 90-day period in accordance with OAC Rule 3745-35-02(C)(4)(b). The purpose of this period of operation is to fulfill the performance test conditions used in the determination of compliance with the provisions of this Permit to Install or other applicable Ohio EPA rules.

CONSTRUCTION COMPLIANCE CERTIFICATION

The applicant shall provide Ohio EPA with written certification (see enclosed form) that the facility has constructed in accordance with the permit to install application and the terms and conditions of the permit to install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

1. The maximum process weight for the Plant 8 Sump Precoat Process shall not exceed 950 pounds per hour.
2. The maximum process weight for the Plant 8 Sump Wastewater Treatment Process shall not exceed 39,392 pounds per hour.
3. The visible emissions of particulate from the operation of sources described in this permit shall not exceed 0% opacity.
4. Any unauthorized or emergency release of an air contaminant from these sources which, due to the toxic or hazardous nature of the material, may pose a threat to public health or otherwise endanger the safety or welfare of the public, shall be reported immediately to the appropriate Ohio EPA field office (during normal business hours) or to the Ohio EPA's Emergency Response Group (1-800-282-9378). (Additional reporting may be required pursuant to the Federal Comprehensive Environmental Response Compensation and Liabilities Act.).
5. The use of Best Available Technology for the Plant 8 Sump System Precoat Process is the venting of particulate emissions to a 99% efficient bag filter. Best Available Technology for the process Feed Tanks is a demister pad assembly with 99% efficiency. The use of Best Available Technology for the Drumming Stations is a cartridge filter and HEPA dust collector with 99.5% and 99.97% particulate and Uranium removal efficiencies.
6. All radionuclide monitoring, testing and reporting shall be performed in accordance with the procedures specified in Sections 61.93 and 61.94 of 40 CFR, Part 61, Subpart H. Particulate testing shall be performed in accordance with OAC rule 3745-17-03 or through the use of an alternative testing procedure approved by the Ohio EPA.
 - a. A monitoring system designed to detect radionuclide activity, particulates and differential pressure shall be installed in exhaust stack EP78-1, downstream of all control devices. The monitoring system shall be operated and maintained in accordance with the procedures specified by the manufacturer. The monitoring system shall be operated continuously when emissions are exhausted through stack EP78-1.

- b. The monitoring system shall have five (5) components: an isokinetic stack sampler, a radiation monitor (Geiger-Mueller or equivalent) differential pressure sensors and device(s) for recording the instantaneous radionuclide activity readings from the radiation monitor counter and for recording the differential pressure readings across the control device(s).
- c. The recorder charts documenting the instantaneous differential pressure across the control device(s), and the instantaneous radionuclide activity readings, in addition to the laboratory results from the radionuclide and particulate emission rate analyses shall be kept onsite, available for inspection by representatives of the Ohio EPA, for a minimum of five (5) years.
- d. The monitoring system shall be designed to sound an alarm and initiate a manual shutdown of the system(s) generating and emitting radionuclides through stack EP78-1 when either the radionuclide activity level, as indicated by the radiation monitor, exceeds a predetermined level approved by the Ohio EPA that ensures the health and safety of the public; or when the differential pressure across the control device(s), as indicated by the differential pressure sensors, fall below predetermined level(s) approved by the Ohio EPA that represents an abnormal conditions such as a malfunction of the Control device(s).

INSTALLATION CERTIFICATION

TO BE FILED UPON COMPLETION OF CONSTRUCTION AND PRIOR TO STARTUP

FACILITY NAME: US DEPT OF ENERGY, FERNALD ENVIR MGMT PR

MAILING ADDRESS: BEHRAM SHROFF
7400 WILLEY RD
FERNALD, OH 45239

PERMIT TO INSTALL NO: 14-2814

SOURCE NO: 1431110128P259

TO BE COMPLETED BY APPLICANT

DATE OF COMPLETION OF CONSTRUCTION: _____

HAVE YOU FILED FOR A PERMIT TO OPERATE? _____ YES _____ NO

This signature shall constitute personal affirmation that the source has been constructed in accordance with the terms and conditions in the Permit to Install and Permit to Install Application and with all other applicable Ohio EPA requirements.

RETURN UPON COMPLETION OF CONSTRUCTION

Authorized Signature (for Facility)

Date

Name

Title

Address

THIS CERTIFICATION SHOULD BE MAILED TO:

Cincinnati Air Pollution Control
1632 Central Parkway
Cincinnati, Ohio 45210

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SOURCE NO: 1431110128P260

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Name

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Address

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Cincinnati Air Pollution Control
1632 Central Parkway
Cincinnati, Ohio 45210

**STATEMENT OF
THE OHIO ENVIRONMENTAL PROTECTION AGENCY
PERMIT TO INSTALL**

APPLICATION NUMBER	AMOUNT DUE
14-2814	\$980.00

FACILITY NAME
 US DEPT OF ENERGY, FERNALD ENVIR MGMT PR

**PURSUANT TO SEC.3745.11 OF THE OHIO REVISED
 CODE, FULL AMOUNT OF THIS PERMIT FEE IS DUE
 WITHIN FIFTEEN (15) DAYS OF THIS PERMIT.**

MAKE CHECKS PAYABLE TO:
 THE TREASURER OF THE STATE OF OHIO.

**RETURN THE STATEMENT WITH YOUR REMITTANCE USING
 THE ENCLOSED ENVELOPE TO:**

**GENERAL ACCOUNTING
 OHIO EPA
 P.O. BOX 1049
 COLUMBUS, OH 43266-0149**

**ALL QUESTIONS REGARDING THIS FEE SHOULD INCLUDE
 THE APPLICATION NUMBER SHOWN ABOVE.**