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**DETERMINATION ON PERMIT TO INSTALL
APPLICATION NO. 14-1516 (SLAG MILLING
PROCESS)**

12/07/88

OEPA/DOE-FN

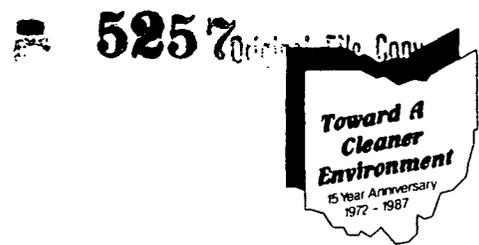
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LETTER



State of Ohio Environmental Protection Agency

P.O. Box 1049, 1800 WaterMark Dr.
Columbus, Ohio 43266-0149



Re: Permit to Install
HAMILTON County
Application No. 14-1516

Richard F. Celeste
Governor

DECEMBER 7, 1988

U.S. DEPT. OF ENERGY, FEED MATERIALS PROD. CTR.
JAMES A. REAFSNYDER, SITE MGR.
P.O. BOX 398705
CINCINNATI, OHIO 45239-8704

Dear Sir:

You are hereby notified that the Ohio Environmental Protection Agency has made a preliminary staff determination recommending that the Director issue a Permit to Install for the source(s) shown on the enclosed draft permit. This preliminary determination is not an authorization to begin construction or modification of your source(s). The purpose of this draft is to solicit public comments on the proposed installation. A public notice concerning the draft permit will appear in the Ohio EPA Weekly Review and the newspaper in the county where the source(s) will be located. Public comments will be accepted by the field office within 30 days of the date of publication in the newspaper.

A permit to install may be issued in proposed or final form based on the preliminary determination, any written public comments received within 30 days of the public notice, or record of a public meeting if one is held. You will be notified in writing of a scheduled public meeting.

Upon issuance of a final permit to install a fee of \$585. will be due. Please do not submit any payment now.

If you have any questions about this draft permit, please contact the field office where you submitted your application, or Clara Dailey, Field Operations Section at (614) 644-2277.

Very truly yours,

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

Date Rec'd DEC 08 1988
Log C-443
File 5472.561
Library _____

cc: US EPA
SOUTHWESTERN OHIO AIR POLLUTION CONTROL AGENCY
OHIO-KENTUCKY-INDIANA REGIONAL
INDIANA AIR POLLUTION CONTROL DIVISION
KENTUCKY DIVISION OF AIR POLLUTION CONTROL
BARBARA WOJTCWICZ

Permit to Install Terms and Conditions

Application No. 14-1516
APS Premise No. 1431110128
Permit Fee:

Name of Facility: U.S. DEPT. OF ENERGY, FEED MATERIALS PROD. CTR.

Person to Contact: JAMES A. REAFSNYDER, SITE MGR.

Address: P.O. BOX 398705
CINCINNATI, OHIO 45239-8704

Location of proposed source(s): 7400 WILLEY RD, PLANT 5
CROSBY TWP, OHIO

Description of proposed source(s): 6000 LBS/HR SLAG MILLING PROCESS
CONTROLLED W/CARTRIDGE & HEPA
FILTRATION SYSTEMS.

Date of Issuance:

Effective Date:

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

EPA 3156

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Substantial construction for installation must take place within eighteen months of the effective date of this permit. This deadline may be extended by up to twelve 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.

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, examining records or reports pertaining to the construction, modification or installation of the above described source of environmental pollutants.

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.

The specified permit fee must be remitted within 15 days of the effective date of this permit to install.

If the construction of the proposed source 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 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.

EMISSION SUMMARY

The air contaminant sources listed below comprise the Permit to Install for U.S. Dept. of Energy, Feed Materials Production Center located in Hamilton County. The sources listed below shall not exceed the emission limits/control requirements contained in the following table:

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<u>Ohio EPA Source No.</u>	<u>Source Identification</u>	<u>BAT Determination</u>	<u>Applicable Ohio EPA rule</u>	<u>Allowable Emissions (lb/hr, lb/MMBTU, gr/DSCF, etc.)</u>
P236	Slag milling process	Cartridge filtration, high efficiency HEPA filtration system, using dust-tight material handling equipment	3745-31-05 3745-17-07 3745-17-11	6.50×10^{-3} lbs/hr part., 9.10×10^{-4} lbs/hr uranium, no visible emissions

SUMMARY
TOTAL NEW SOURCE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
Particulate (PM ₁₀)	0.0274
Uranium	6.28×10^{-4}

This condition in no way limits the applicability of any other state or federal regulation.

APPLICABILITY

This Permit to Install is applicable only to the air contaminant sources listed and does not include the installation or modification of wastewater disposal systems or solid waste disposal facilities. Separate application must be made to the Director for the installation or modification of any such wastewater disposal systems or solid waste disposal facilities.

NESHAPS REQUIREMENTS

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

<u>Source No.</u>	<u>Source Description</u>	<u>NESHAPS Regulation</u>
P236	Slag milling process	40 CFR, Part 61, Subpart H

The application and enforcement of these standards are performed by the USEPA.

Pursuant to the NESHAPS, the source owner/operator is required to report the following milestones;

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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 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:

U.S. EPA
David Key
Air Radiation Branch (5AR-26)
230 South Dearborn
Chicago, Illinois 60604

and Ohio Environmental Protection Agency
Division of Air Pollution Control
Authorization and Compliance Unit
P. O. Box 1049
Columbus, Ohio 43266-0149

and Southwestern Ohio Air Pollution Control Agency
2400 Beekman Street
Cincinnati, Ohio 45214

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.

PERMIT TO OPERATE APPLICATION

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

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.

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MALFUNCTION/ABATEMENT

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.

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 Southwestern Ohio Air Pollution Control Agency. 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 said equipment, must be accompanied by the shutdown of the associated air pollution sources.

ADDITIONAL SPECIAL TERMS AND CONDITIONS

1. The slag milling process shall not be operated more than eight thousand four hundred (8,400) hours per year.
2. The maximum process weight rate for this slag milling process shall not exceed 6,000 pounds per hour.
3. Upon installation of the new slag milling process (P236), the existing building 55 slag milling process shall not process enriched slag. The average, actual, annual₇ emissions from the existing slag milling process is 2.55×10^7 tons per year of uranium. The net increase in allowable annual emissions is 3.73×10^4 tons per year of uranium.
4. The use of dust-tight material handling equipment and/or enclosure of material handling equipment vented to cartridge filtration systems with 99% removal efficiency followed by prefilter/HEPA filtration systems with 99% removal efficiency represents the use of Best Available Technology for the source.
5. Monitors to detect radionuclides shall be installed in the exhaust stacks. The units shall have two components, an isokinetic stack sampler and a Geiger-Mueller counter. The monitors shall sound an alarm and initiate a system shutdown, when the collection of radionuclides increases to a predetermined level.

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