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STATE OF IDAHO

DEPARTMENT OF HEALTH AND WELFARE

DIVISION OF ENVIRONMENT


Pursuant to the Provisions  
of Section 39-115 of the Idaho Code,  
and the Rules and Regulations for the Con-  
trol of Air Pollution in Idaho,

Kerr McGee  
Permittee, including affiliates, if any  
Soda Springs, Idaho 83276  
Located at

is hereby granted permission to operate the Air  
Pollution Source(s) and Control Equipment specified  
herein provided the emission limitations, monitoring  
requirements and other conditions set forth in the  
Source Permit(s) are complied with.

Validation:

Issued 7/18/79Expiration 7/17/84

  
Director

PART I

SOURCE PERMIT NO. 13-0420-0002-01

Page 2 of 12

Kerr McGee located at Soda Springs, Idaho  
is hereby granted permission to operate the following air pollution  
source or control equipment: Ferrophos crusher, dryer, impactor, and  
coarse storage area; all points are controlled by one baghouse

Restrictions:

Emission Point	Emission Characteristic	Emission Limitations	Monitoring Requirements
Baghouse	Particulate	0.10 Pounds per ton of raw material input to the process.	Stack test as required by Operation and Maintenance Manual

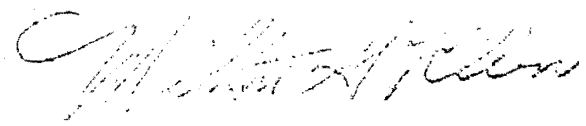
Conditions:

When visible emissions from the baghouse exceed 5% opacity corrective action is to be implemented.

Validation (if different from Facility Permit)

Issued \_\_\_\_\_

Expiration \_\_\_\_\_



PART I

SOURCE PERMIT NO. 13-0420-0002-02

Page 3 of 12

Kerr McGee located at Soda Springs, Idaho

is hereby granted permission to operate the following air pollution source or control equipment: Ferrophos Ballmill with Baghouse

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Restrictions:

Emission Point	Emission Characteristic	Emission Limitations	Monitoring Requirements
Baghouse	Particulate	0.10 Pounds per ton of raw material input to the process.	Stack Test as required by Operation and Maintenance Manu

Conditions:

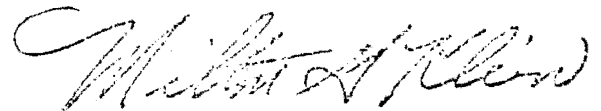
When visible emissions from the baghouse exceed 5% opacity corrective action is to be implemented.

PPT<sup>1</sup> - Pounds per ton of raw material input

Validation (if different from Facility Permit)

Issued \_\_\_\_\_

Expiration \_\_\_\_\_



\_\_\_\_\_  
Authorizing Signature

PART I

SOURCE PERMIT NO. 13-0420-0002-03

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Kerr McGee located at Soda Springs, Idaho

is hereby granted permission to operate the following air pollution source or control equipment: Limestone Ballmill with the emissions controlled by a scrubber

Restrictions:

Emission Point	Emission Characteristic	Emission Limitations	Monitoring Requirements
Scrubber	Particulate	See Part III	Stack Test as required by Operation and Maintenance Manual

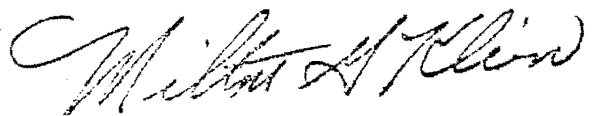
Conditions:

Total process weight is that amount, in pounds per hour, being fed to the ballmill. Total actual emissions are calculated by adding the emissions from the above source(s).

Validation (if different from Facility Permit)

Issued \_\_\_\_\_

Expiration \_\_\_\_\_



PART I

SOURCE PERMIT NO. 13-0420-0002-04

Page 5 of 12

Kerr McGee located at Soda Springs, Idaho

is hereby granted permission to operate the following air pollution source or control equipment: Metering of salt/soda ash, limestone and ferrophos; #1 roaster, with quench and leach tanks. Emissions from the roaster are controlled by a cyclone followed by a venturi scrubber.

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Restrictions:

Emission Point	Emission Characteristic	Emission Limitations	Monitoring Requirements
Scrubber	Particulate	See Part III	Stack test as required by Operation and Maintenance Manu

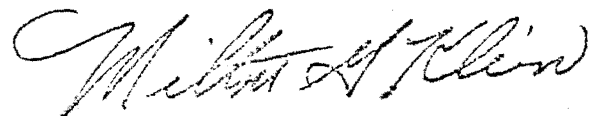
Conditions:

Total process weight is that amount, in pounds per hour, being fed to the roaster. Total actual emissions are calculated by adding the emissions from the above source(s).

Validation (if different from Facility Permit)

Issued \_\_\_\_\_

Expiration \_\_\_\_\_



PART I

SOURCE PERMIT NO. 13-0420-0002-05

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Kerr McGee located at Soda Springs, Idaho  
is hereby granted permission to operate the following air pollution  
source or control equipment: Metering of salt/soda ash, limestone  
and ferrophos; #2 roaster, with quench and leach tanks. Emissions  
from the roaster are controlled by a cyclone followed by a venturi  
scrubber.

Restrictions:

Emission Point	Emission Characteristic	Emission Limitations	Monitoring Requirements
Scrubber	Particulate	See Part III	Stack test as required by Operation and Maintenance Manual

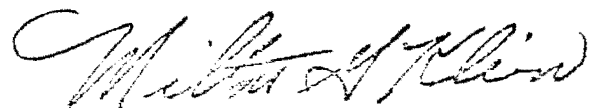
Conditions:

Total process weight is that amount, in pounds per hour, being fed to the roaster. Total actual emissions are calculated by adding the emissions from the above source(s).

Validation (if different from Facility Permit)

Issued \_\_\_\_\_

Expiration \_\_\_\_\_



PART I

SOURCE PERMIT NO. 13-0420-0002-06

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Kerr McGee located at Soda Springs, Idaho  
is hereby granted permission to operate the following air pollution  
source or control equipment: Wet processes for purification of  
vanadium

Restrictions:

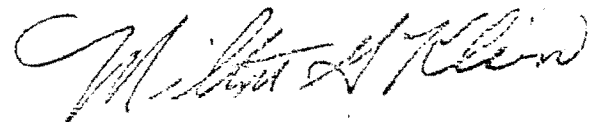
Emission Point	Emission Characteristic	Emission Limitations	Monitoring Requirements
<u>General provisions of the Rules and Regulations for the Control of Air Pollution in Idaho.</u>			

Conditions:

Validation (if different from Facility Permit)

Issued \_\_\_\_\_

Expiration \_\_\_\_\_



PART I

SOURCE PERMIT NO. 13-0420-0002-07

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Kerr McGee located at Soda Springs, Idaho

is hereby granted permission to operate the following air pollution source or control equipment: Ammonium meta vanadate dryer, decomposer fusing operation and packaging; the decomposer emissions are controlled by a baghouse.

Restrictions:

Emission Point	Emission Characteristic	Emission Limitations	Monitoring Requirements
Baghouse	Particulate	See Part III	Stack test as required by Operation and Maintenance Manu
Dryer	NH <sup>3</sup>	General provisions of the Rules and Regulations	


Conditions:

When visible emissions from the baghouse exceed 5% opacity corrective action is to be implemented.

Validation (if different from Facility Permit)

Issued \_\_\_\_\_

Expiration \_\_\_\_\_



## PART II GENERAL PROVISIONS

- A All emissions authorized herein shall be consistent with the terms and conditions of this permit. The emission of any pollutant in excess of the limitations specified herein, or non-compliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules and Regulations for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code 39-101 et seq.
- B The permittee shall at all times (except as provided in the Rules and Regulations for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable laws for the control of air pollution.
- C The permittee shall allow the Director, and/or his authorized representative(s), upon the presentation of credentials:
- 1) To enter upon the permittee's premises where an emission source is located, or in which any records are required to be kept under the terms and conditions of this permit; and

- 2) at reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit, and to sample any emission of pollutants.
- D Except for data determined to be confidential under Section 39-111, Idaho Code, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate regional office of the Division of Environment.
- E Nothing in this permit is intended to relieve or exempt the permittee from compliance with any applicable federal, state or local law or regulation, except as specifically provided herein.
- F In the event of any change in control or ownership of source(s) from which the authorized emissions emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Director.
- G Until the expiration date, this permit shall be renewable annually, provided the permittee submits any and all information necessary for the Director to determine the amount and type of air pollutants emitted from the equipment for which this permit is granted. Failure to submit

such information within sixty (60) days after receipt of the Director's request shall cause the permit to be voided.

- H The Director may require the permittee to develop a list of Operation and Maintenance Procedures which must be approved by the Department. Such list of procedures shall become a part of this permit by reference, and the permittee shall adhere to all of the operation and maintenance procedures contained therein.
- I The permittee shall provide the appropriate regional office a minimum of five (5) days notice prior to the scheduled date of any emissions test required pursuant to this permit. The permittee shall notify the appropriate regional office of any change in the testing schedule and shall provide at least one (1) days notice prior to conducting any rescheduled test. Any records or data generated as a result of such compliance tests shall be made available to the Department upon request.

## PART III EMISSION LIMITATIONS

1. Allowable Mass Emission Rate (Effective on Issuance of Permit Unless Otherwise Noted)

A person shall not discharge into the atmosphere from any source operating prior to February 1, 1979 particulate matter in excess of the amount shown by the following equations:

If PW is less than 17,000 pounds per hour,

$$E = .045 (PW)^{0.60}$$

If PW is equal to or greater than 17,000 pounds per hour,

$$E = 1.12 (PW)^{0.27}$$

Where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour.