

STATE OF IDAHO
 PERMIT TO CONSTRUCT
 AN AIR POLLUTION
 EMITTING SOURCE

PERMIT NUMBER

0 2 3 - 0 0 0 0 1

AQCR

0 6 1

CLASS

A 1

SIC

9 9 9 9

ZONE

1 2

UTM COORDINATE (km)

3 4 3 8 4 8 2 6 0

1. **PERMITTEE**
 United States Department of Energy, Idaho Operations
2. **PROJECT**
 Idaho Chemical Processing Plant Pilot Plants
3. **MAILING ADDRESS**
 785 DOE Place
- CITY**
 Idaho Falls
- STATE**
 Idaho
- ZIP CODE**
 83402
4. **SITE LOCATION COUNTY**
 Butte
- NO. OF FULL TIME EMPLOYEES**
 10,500
- PROPERTY AREA AT SITE (Acreage)**
 569,600
5. **PERSON TO CONTACT**
 Jay R. Mitchell
- TITLE**
 Manager, NEPA/Permitting Dept.
- TELEPHONE**
 (208) 526-9989
6. **EXACT PLANT LOCATION**
 Building CPP-637 - Idaho Chemical Processing Plant - Idaho National Engineering Lab
7. **GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**
 Federal Government

8. **GENERAL CONDITIONS**

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, Section 16.01.01.200, and pertains only to emissions of air contaminants which are regulated by the State of Idaho and to the sources specifically allowed to be constructed by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located, (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment, (c) does not release the permittee from compliance with other applicable federal, state, tribal or local laws, regulations, or ordinances, (d) in no manner implies or suggests that the Department of Health and Welfare, or its officers, agents, or employees, assumes any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit is not transferable to another person, place, piece or set of equipment. This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes of design or equipment that result in any change in the nature or amount of emissions must be approved in advance by the department unless exempted by the Rules for the Control of Air Pollution in Idaho Sections 200 through 225.

Deville D. Green
 ASSISTANT ADMINISTRATOR
 DIVISION OF ENVIRONMENTAL QUALITY

DATE: August 8, 1996

PERMIT TO CONSTRUCT

P E R M I T N U M B E R

PERMITTEE, PROJECT, AND LOCATION

Department of Energy, INEL
ICPP Pilot Plants

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SOURCE

10-CM, 15-CM and 30-CM Calciners

1. EMISSION LIMITS

Opacity Limits

Visible emissions from any stack, vent or functionally equivalent opening shall not exceed twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period in accordance with IDAPA 16.01.01.625 and as determined by procedures contained in the "Procedures Manual for Air Pollution Control, Section II (Evaluation of Visible Emissions Manual)."

2 OPERATING REQUIREMENTS

2.1- Simulated Liquid Waste Solution Feed Rate

- 2.1.1 The simulated liquid waste solution feed rate to the 10-cm calciner shall not exceed any of the following: seventy-two liters per day (72 l/day); two thousand eight hundred eighty liters per year (2,880 l/yr).
- 2.1.2 The simulated liquid waste solution feed rate to the 15-cm calciner shall not exceed any of the following: two hundred eighty-eight liters per day (288 l/day); eleven thousand five hundred twenty liters per year (11,520 l/yr).
- 2.1.3 The simulated liquid waste solution feed rate to the 30-cm calciner shall not exceed any of the following: one thousand eighty liters per day (1,080 l/day); thirty two thousand four hundred liters per year (32,400 l/yr).

3 MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 Simulated Liquid Waste Solution Feed Rate

The permittee shall monitor and record, on a daily basis during operation, the daily feed rate of simulated liquid waste solution to the 10-cm, 15-cm, and 30-cm calciners. The permittee shall also record, annually, the total amount of simulated liquid waste solution fed to the 10-cm, 15-cm, and 30-cm calciners during the previous calendar year. All data shall be maintained on-site for the most recent two (2) year period and be made available to Department representatives upon request.

4. REPORTING REQUIREMENTS

Exceedence Reports

The permittee shall submit a written report to the Department of all exceedences of any emission limit or operational requirement specified in Section 1 and/or 2 of this permit within five (5) days of the exceedence. The report shall contain the date, time and duration of the exceedence if applicable, as well as any corrective action taken to remedy the cause of the exceedence.

Certification of Documents

All documents, including, but not limited to, records, monitoring data, supporting information, testing reports or compliance certifications submitted to the Department shall contain a certification by a responsible official in accordance with IDAPA 16.01.01.123. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

DATE: August 8, 1996

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PERMIT TO CONSTRUCT

P E R M I T N U M B E R

PERMITTEE, PROJECT, AND LOCATION

Department of Energy, INEL
ICPP Pilot Plants

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SOURCE

High Bay Facility Mixing Tanks

1 EMISSION LIMITS

1.1 Opacity Limits

Visible emissions from any stack, vent or functionally equivalent opening shall not exceed twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period in accordance with IDAPA 16.01.01.625 and as determined by procedures contained in the "Procedures Manual for Air Pollution Control, Section II (Evaluation of Visible Emissions Manual)."

2. OPERATING REQUIREMENTS

2.1. Mixing Tank Combined Throughput

The combined throughput of simulated waste solutions that are denitrated within the high bay facility mixing tanks shall not exceed any of the following:

- 2.1.1 Three thousand two hundred liters per month (3,200 l/mo);
- 2.1.2 Fifteen thousand two hundred liters per year (15,200 l/yr).

MONITORING AND RECORDKEEPING REQUIREMENTS

3.1 Mixing Tank Combined Throughput

The permittee shall monitor and record the combined monthly and annual throughput rate of simulated waste solutions that are denitrated within the high bay facility mixing tanks. All data shall be maintained on-site for the most recent two (2) year period and be made available to Department representatives upon request.

4 REPORTING REQUIREMENTS

4.1 Exceedence Reports

The permittee shall submit a written report to the Department of all exceedences of any emission limit or operational requirement specified in Section 1 and/or 2 of this permit within five (5) days of the exceedence. The report shall contain the date, time and duration of the exceedence if applicable, as well as any corrective action taken to remedy the cause of the exceedence.

4.2 Certification of Documents

All documents, including, but not limited to, records, monitoring data, supporting information, testing reports or compliance certifications submitted to the Department shall contain a certification by a responsible official in accordance with IDAPA 16.01.01.123. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

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PERMIT TO CONSTRUCT GENERAL PROVISIONS

- A. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emission of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules 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 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 Idaho 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 at reasonable times upon the 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 methods required in this permit, and require stack emission testing in conformance with the Department's Procedures Manual for Air Pollution Control when deemed appropriate by the Director.
- D. 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.

The permittee shall notify the Idaho Division of Environmental Quality, in writing, of the required information for the following events within five working days after occurrence;

- 1) Initiation of Construction - Date
- 2) Completion/Cessation of Construction - Date
- 3) Actual Production Start up - Date
- 4) Initial Date of Achieving Maximum Production Rate - Production Rate and Date

- F. If emission testing is specified, the permittee must schedule such testing within sixty (60) days after achieving the maximum production rate, but not later than one hundred and eighty (180) days after initial start up. Such testing must strictly adhere to the procedures outlined in the Department's Procedures Manual for Air Pollution Control, and shall not be conducted on weekends or state holidays without prior written Department approval. Testing procedures and specific time limitations may be modified by the Idaho Division of Environmental Quality by prior negotiation if conditions warrant adjustment. The Idaho Division of Environmental Quality shall be notified at least fifteen (15) days prior to the scheduled performance test. Any records or data generated as a result of such performance test shall be made available to the Department upon request.

The maximum allowable operating rate shall be limited to 120% of the average operating rate attained during the performance test period, unless (1) or more restrictive operating limit is specified elsewhere in this permit, or (2) at such an operating rate, emissions would exceed any emission limit(s) set forth in this permit.

- G. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

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