

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)

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1. PERMITTEE
U.S. Department of Energy - Idaho Field Office
2. PROJECT
TAN 603-PBG-76-98, Fuel Oil-Fired Boilers #4 and #5
3. MAILING ADDRESS
785 DOE Place
- CITY
Idaho Falls
- STATE
Idaho
- ZIP CODE
83402-1562
4. SITE LOCATION COUNTY
Bonneville
- NO. OF FULL-TIME EMPLOYEES
8,000
- PROPERTY AREA AT SITE (Acreage)
569,600
5. PERSON TO CONTACT
Ralph W. (Woody) Russell
- TITLE
Environmental Engineer
- TELEPHONE
(208) 526-0561
6. EXACT PLANT LOCATION
Test Area North - Butte County
7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS
Government Research and Support Facilities

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 that 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 Idaho Department of Health and Welfare, Division of Environmental Quality (DEQ) 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 DEQ unless exempted by the Rules for the Control of Air Pollution in Idaho Sections 220 through 225.

David D. Green
 ASSISTANT ADMINISTRATOR
 DIVISION OF ENVIRONMENTAL QUALITY

DATE: May 14, 1998

PERMIT TO CONSTRUCT

PERMITTEE, PROJECT, AND LOCATION

DOE, INEEL
TAN 603-PBG-76-98
Idaho Falls, Idaho

PERMIT NUMBER

0	2	3	-	0	0	0	0	1
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SOURCE

Oil-Fired Boilers #4 and #5, TAN 603 Building

1 EMISSION LIMITS

SO₂ Emission Limit

Sulfur dioxide (SO₂) emissions from the #4 and #5 boiler exhaust stacks shall not exceed thirty-nine and nine-tenths tons per consecutive 12-month period (39.9 T/yr) inclusive.

1.2 Visible Emissions

Visible emissions from the #4 and #5 boiler exhaust stacks shall not exceed 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. Opacity shall be determined using the Department's "Procedures Manual for Air Pollution Control."

OPERATING REQUIREMENTS

Fuel Sulfur Content

No fuel oil containing sulfur in excess of 0.5 percent by weight shall be burned in the boilers in accordance with 40 CFR 60.42(c) and IDAPA 16.01.01.728.

2.2 Fuel Throughput

No more than ninety-three thousand, three hundred thirty-three gallons per month (93,333 gal/mo) or one million, one hundred twenty thousand gallons per consecutive 12-month period (1,120,000 gal/yr) of fuel oil shall be burned in the boilers.

3 MONITORING REQUIREMENTS

3.1 SO₂ Performance Test

Within sixty (60) days after achieving maximum production rate, but not later than one hundred eighty (180) days after initial start-up, the permittee shall conduct a performance test to measure SO₂ emissions from either boiler stack #4 or boiler stack #5 as required in 40 CFR 60.42c, and in accordance with the test methods and procedures in 40 CFR 60.44c and the DEQ's "Procedures Manual for Air Pollution Control." Visible emissions shall be observed and recorded using the methods specified in the DEQ's "Procedures Manual for Air Pollution Control." During the performance test, the fuel sulfur content and amount of fuel oil combusted shall be recorded and reported with the performance test results.

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SOURCE

Oil-Fired Boilers #4 and #5, TAN 603 Building

3.2 Fuel Throughput

The permittee shall monitor and record the amount of fuel oil combusted in the boilers monthly and annually. The monthly and annual usage of fuel oil in the boilers shall be recorded in gallons. All data shall be kept on-site for the most recent two (2) year period and shall be made available to DEQ representatives upon request.

Fuel Sulfur Content

The permittee shall sample and analyze the oil in the initial tank of oil to be fired in the boilers to demonstrate that the oil contains 0.5 weight percent of sulfur or less in accordance with Section 2.1 of this permit. Thereafter, the permittee shall require the vendor of the fuel oil to certify that each load has a 0.5 weight percent or less of sulfur in accordance with 40 CFR 60, Subpart Dc.

REPORTING REQUIREMENTS

Performance Test Protocol

The permittee shall submit a test protocol for the performance test required in Section 3.1 of this permit to DEQ for approval at least thirty (30) days prior to the test date.

4.2 Performance Test Report

The permittee shall submit a performance test report, including the required process data, for the test required in Section 3.1 of this permit, to DEQ within thirty (30) days of the date on which the performance test is concluded.

4.3 Certification of Documents

All documents, including but not limited to, records, monitoring data, supporting information, testing reports, and compliance certifications submitted to DEQ 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: May 14, 1998

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 the 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 DEQ'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 DEQ, in writing, of the required information for the following events within five (5) working days after occurrence:

Initiation of Construction - Date

Completion/Cessation of Construction - Date

3 Actual Production Start-up - Date

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 DEQ's "Procedures Manual for Air Pollution Control," and shall not be conducted on weekends or state holidays without prior written DEQ approval. Testing procedures and specific time limitations may be modified by the DEQ by prior negotiation if conditions warrant adjustment. The DEQ shall be notified at least fifteen (15) days prior to the scheduled compliance test. Any records or data generated as a result of such compliance test shall be made available to the DEQ upon request.

The maximum allowable operating rate shall be limited to 120% of the average operating rate attained during any performance test period, for which a test protocol has been granted prior approval by the DEQ, unless (1) the test demonstrates noncompliance, (2) a more restrictive operating limit is specified elsewhere in this permit, or (3) at such an operating rate, emissions would exceed any emission limit(s) set forth in this permit.

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.

DATE: May 14, 1998