

STATE OF IDAHO
 PERMIT TO CONSTRUCT AN
 AIR POLLUTION EMITTING SOURCE

PERMIT NUMBER

077 - 00006

AQCR

061

CLASS

A1

SIC

2874

ZONE

12

UTM COORDINATE (km)

376 0 4751 0

1. **PERMITTEE** J. R. Simplot Company - Don Siding Facility
 Minerals and Chemical Group
2. **PROJECT**
 Babcock and Wilcox Boiler
3. **MAILING ADDRESS** P.O. Box 912
CITY Pocatello **STATE** Idaho **ZIP CODE** 83204
4. **SITE LOCATION COUNTY** Power **NO. OF FULL TIME EMPLOYEES** 500 **PROPERTY AREA AT SITE (Acreage)** 900 Acres
5. **PERSON TO CONTACT** Paul R. Evans **TITLE** Manager Environmental Support **TELEPHONE NUMBER** (208) 234-5352
6. **EXACT PLANT LOCATION**
 Section 18, R34E, T6S; 5 1/2 Section 7, R34E, T6S
7. **GENERAL NATURE OF BUSINESS AND KINDS OF PRODUCTS**
 Manufacture of Nitrogen, Phosphate and Sulphate Commercial Chemical Products
8. **GENERAL CONDITIONS**

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, Section 16.01.01200, 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.

Don A. P. (A. G. C.)
 ASSISTANT ADMINISTRATOR
 PERMITS AND ENFORCEMENT

DATE: June 16, 1995

PERMIT TO CONSTRUCT

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

PERMITTEE, PROJECT, AND LOCATION

J.R. Simplot Co., Don Siding Facility
 P.O. Box 912
 Pocatello, Idaho 83204

0 7 7 - 0 0 0 0 6

SOURCE

Babcock & Wilcox Boiler

1. SOURCE DESCRIPTION

1.1 Process Description

A Babcock & Wilcox (B & W) boiler is to be installed to replace the existing Keeler boiler, which was damaged in June 1994. The replacement boiler has a design capacity of 58,000 pounds of steam per hour and a burner capacity of 63.8 million Btu per hour.

1.2 Controls

The new gas-fired boiler shall be equipped with a COEN QLN, low NO_x spud type burner with a manufacturer's guaranteed NO_x emission of 30 ppmvd, at 3% oxygen, for control of NO_x emissions.

1.3 Equipment

Boiler equipment listed must meet the following specifications, or be of equivalent design subject to the DEQ's approval:

- 1.3.1 ~~Manufacturer~~ - Babcock & Wilcox
 Model Number - FM-10-79
 Rated Heat Input - 63.807 MMBtu/hr
 Steam Capacity - 58,000 lb/hr
 Fuel - Natural Gas

2. EMISSION LIMITS

2.1 B & W Boiler Emission Limits

PM-10 (as defined in IDAPA 16.01.01.006.71, Rules for the Control of Air Pollution in Idaho), PM (particulate matter), SO₂ (sulfur dioxide), NO_x (oxides of nitrogen), CO (carbon monoxide) and VOC (volatile organic compounds) emissions from the B & W boiler exhaust stack shall not exceed any corresponding emission limit listed in Appendix A.

2.2 Visible Emissions

Visible emissions from the B & W boiler stack shall not exceed twenty percent (20%) opacity for a period or periods aggregating more than three (3) minutes in any sixty (60) minute period, as per IDAPA 16.01.01.625, and as determined by using the DEQ's "Procedures Manual for Air Pollution Control".

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SOURCE

Babcock & Wilcox Boiler

3. OPERATING REQUIREMENTS

3.1 Existing Keeler Boiler Removal

The existing Keeler boiler shall be physically removed from the boiler plant building or rendered inoperative and isolated from the process steam loop of the facility upon start of installation of the B & W boiler.

3.2 Fuel Specifications

The B & W boiler shall only use natural gas as fuel.

3.4 Fuel Consumption

The B & W boiler shall not burn more than five hundred fifty-nine million standard cubic feet (559,000,000 scf) of natural gas fuel per year.

MONITORING AND RECORDING REQUIREMENTS

4.1 Initial Performance Test

The permittee shall conduct an initial performance (stack) test within sixty (60) days of issuance of this Permit to Construct, on the new B & W boiler to measure NO_x (oxides of nitrogen) emissions. The amount of fuel burned during the test shall be recorded with the performance test results.

4.2 Monitoring of Operating Parameters

The permittee shall monitor and record the following information which shall remain on-site for a minimum period of two (2) years and be made available to DEQ representatives upon request.

4.2.1 Date; and

4.2.2 The cumulative volume of natural gas fuel consumed by the B & W boiler on a quarterly basis. Quarterly is defined as a three (3) month period during a calendar year.

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SOURCE

Babcock & Wilcox Boiler

5. REPORTING REQUIREMENTS

5.1 Test Protocol

The permittee shall submit a test protocol for the performance test required in section 4.1 of this Permit to Construct to the DEQ for approval at least thirty (30) days prior to the test date.

5.2 Performance Test Reports

The performance test report, including the required process data, shall be submitted to the DEQ within thirty (30) days of the date on which the performance is conducted.

5.3 Certification of Documents

All documents submitted to the DEQ, including reports, shall contain a certification by a responsible official per 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: June 16, 1995

APPENDIX A

J.R. SIMPLOT CO. - DON SIDING FACILITY

Emission Limits^a - Hourly (lb/hr) and Annual^b (T/yr)

SOURCE DESCRIPTION	PM		PM-10		SO ₂		NO _x		VOC		CO	
	LB/HR	T/YR	LB/HR	T/YR	LB/HR	T/YR	LB/HR	T/YR	LB/HR	T/YR	LB/HR	T/YR
B & W BOILER	0.64	2.79	0.32	1.40	0.04	0.17	2.88	12.63	0.19	0.84	11.7	51.1

- a As determined by a pollutant specific U.S. EPA reference method, or DEQ approved alternative, or as determined by DEQ's emission estimation methods used in this permit analysis.
- b As determined by multiplying the actual or allowable (if actual is not available) pound per hour emission rate by the allowable hours per year that the process(es) may operate, or by actual annual production rates.

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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.
- E. 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 will not be conducted on weekends or state holidays. 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) working 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 Department upon request.
- The performance tests will be performed at the maximum production rate. If this maximum rate is not achieved during testing, the allowable production rate will be limited to the production rate attained during testing.
- 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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