



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

Dirk Kempthorne, Governor  
Toni Hardesty, Director

November 1, 2005

**Certified Mail No. 7004 1160 0005 8739 4946**

Darrell Buffaloe  
Director, Physical Plant  
Idaho State University  
P. O. Box 8137  
Pocatello, ID 83209

RE: Facility ID No. 005-00029, Idaho State University, Pocatello  
Final Permit Letter

Dear Mr. Buffaloe:

The Idaho Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) Number P-050306 for Idaho State University in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received on March 17, 2005. This permit is effective immediately. This permit does not release Idaho State University from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

A representative of the Pocatello Regional Office will contact you regarding a meeting with DEQ to discuss the permit terms and requirements. DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any operations staff responsible for day-to-day compliance with permit conditions.

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to call Dan Pitman at (208) 373-0502 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

Martin Bauer, Administrator  
Air Quality Division

MB/CZ/sd

Permit No. P-050306

Enclosures



**Air Quality  
PERMIT TO CONSTRUCT**  
**State of Idaho  
Department of Environmental Quality**

**PERMIT No.:** P-050306  
**FACILITY ID No.:** 005-00029  
**AQCR:** 061                      **CLASS:** SM  
**SIC:** 8221                      **ZONE:** 12  
**UTM COORDINATE (km):** 383, 4746

**1. PERMITTEE**  
Idaho State University, Physical Plant

**2. PROJECT**  
New gas-fired Keystone Victory boiler rated at 60,000 pounds of steam per hour (Boiler No. 4)

<b>3. MAILING ADDRESS</b> P. O. Box 8137	<b>CITY</b> Pocatello	<b>STATE ID</b>	<b>ZIP</b> 83209
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<b>4. FACILITY CONTACT</b> Darrell Buffaloe	<b>TITLE</b> Director, Physical Plant	<b>TELEPHONE</b> (208) 282-2209
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<b>5. RESPONSIBLE OFFICIAL</b> Darrell Buffaloe	<b>TITLE</b> Director, Physical Plant	<b>TELEPHONE</b> (208) 282-2209
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<b>6. EXACT PLANT LOCATION</b> 749 E. Humbolt, Idaho State University, Bldg No. 20 (Heat Plant)	<b>COUNTY</b>
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**7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**  
University

**8. GENERAL CONDITIONS**

This permit is issued according to IDAPA 58.01.01.200, Rules for the Control of Air Pollution in Idaho, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified 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 Environmental Quality (DEQ) or its officers, agents, or employees, assume 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 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 may require DEQ approval pursuant to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200, et seq.

  
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**TONI HARDESTY, DIRECTOR**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**DATE ISSUED:** November 1, 2005

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## Acronyms, Units, and Chemical Nomenclature

AQCR	Air Quality Control Region
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
gr/dscf	grain (1 lb = 7,000 grains) per dry standard cubic foot
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pound per hour
MMBtu/hr	million British thermal units per hour
NO <sub>x</sub>	nitrogen oxides
PM	particulate matter
PTC	permit to construct
SIC	Standard Industrial Classification
SM	synthetic minor
T/yr	tons per year
UTM	Universal Transverse Mercator

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-050306**

<b>Permittee:</b>	Idaho State University	<b>Facility ID No. 005-00029</b>	<b>Date Issued:</b>	November 1, 2005
<b>Location:</b>	749 E. Humbolt, Pocatello			

**1. PERMIT TO CONSTRUCT SCOPE**

***Purpose***

- 1.1 The purpose of this permit to construct is to permit a new gas-fired boiler.
- 1.2 This is a new PTC and does not replace any other PTC.

***Regulated Sources***

Table 1.1 lists all sources of regulated emissions in this PTC.

**Table 1.1 SUMMARY OF REGULATED SOURCES**

<b>Permit Section</b>	<b>Source Description</b>	<b>Emissions Control(s)</b>
2	Keystone Victory Boiler No. 4, 60,000 lbs steam/hr	Coen low-NO <sub>x</sub> burner

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**2. BOILER NO. 4**

**2.1 Process Description**

Boiler No. 4 is used to heat the Rendezvous building on the Idaho State University campus and is fired on natural gas.

**2.2 Emissions Control Description**

**Table 2.1 Boiler Description**

<b>Emissions Unit(s) / Process(es)</b>	<b>Emissions Control Device</b>
Boiler No. 4 Manufacturer: Keystone Model: Victory Rating: 60,000 lb steam/hr - 72.84 MMBtu/hr Fuel: Natural gas	Coen low-NO <sub>x</sub> burner

***Emissions Limits***

**2.3 Emissions Limits**

The carbon monoxide (CO) emissions from the Boiler No. 4 stack shall not exceed 7.2 pounds per hour (lb/hr).

**2.4 Grain Loading Limit**

The permittee shall not discharge to the atmosphere from the Boiler No. 4 stack PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas in accordance with IDAPA 58.01.01.676.

**2.5 Opacity Limit**

Emissions from the Boiler No. 4 stack, or any other stack, vent, or functionally equivalent opening associated with Boiler No. 4, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

***Operating Requirements***

**2.6 Throughput Limits**

The amount of natural gas used by Boiler No. 4 shall not exceed 468 million standard cubic feet (MMscf) per any consecutive 12-month period.

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**2.7 Fuel Type**

Boiler No. 4 shall be fueled on natural gas exclusively.

***Monitoring and Recordkeeping Requirements***

**2.8 Throughput Monitoring**

The permittee shall monitor and record the amount of natural gas combusted in Boiler No. 4 as specified in 40 CFR 60.48.c(g). In addition, the permittee shall monitor and record the amount of natural gas combusted in Boiler No. 4 each month and for the most recent 12-month period. Records of this information shall remain on site for the most recent two-year period and shall be made available to DEQ representatives upon request.

**2.9 Performance Test**

The permittee shall conduct a performance test to measure CO emissions from Boiler No. 4 within 180 days of commencement of operation of the boiler. The performance testing will be conducted to demonstrate compliance with the emission rate limit listed in Permit Condition 2.3.

The performance test shall be performed in accordance with IDAPA 58.01.01.157. The fuel type and amount to Boiler No. 4 and the steam production in pounds per hour (lb/hr) shall be recorded during the performance test.

**2.10 Compliance Test Protocol**

The permittee is strongly encouraged to submit a test protocol to DEQ for approval at least 30 days prior to the compliance test required in Permit Condition 2.9. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the test does not satisfy the testing requirements.

**2.11 Compliance Test Report**

The permittee shall submit a report of the results of the compliance test required in Permit Condition 2.9, including all required process data, to DEQ within 30 days after the date on which the stack sampling is concluded.

**2.12 Address**

Any correspondence to the EPA shall be sent to:

US EPA  
Region 10  
1200 Sixth Avenue  
Seattle, WA 98101

Any correspondence to the DEQ shall be sent to:

Idaho Department of Environmental Quality  
Pocatello Regional Office  
444 Hospital Way #300  
Pocatello, ID 83204

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**3. PERMIT TO CONSTRUCT GENERAL PROVISIONS**

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. 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 emissions 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.
2. 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.
3. The permittee shall allow the Director, and/or the authorized representative(s), upon the presentation of credentials:
  - To enter, at reasonable times, upon the premises where an emissions source is located, or in which any records are required to be kept under the terms and conditions of this permit.
  - 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 compliance testing in conformance with IDAPA 58.01.01.157 when deemed appropriate by the Director.
4. 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.
5. The permittee shall notify DEQ, in writing, of the required information for the following events within 5 working days after occurrence:
  - Initiation of Construction - Date
  - Completion/Cessation of Construction - Date
  - Actual Production Startup - Date
  - Initial Date of Achieving Maximum Production Rate - Production Rate and Date
6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

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All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

7. 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.
8. In accordance with IDAPA 58.01.01.123, all documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.