



STATE OF IDAHO  
DEPARTMENT OF  
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706-1255 • (208) 373-0502

Dirk Kempthorne, Governor  
Toni Hardesty, Director

October 12, 2004

**Certified Mail No. 7000 0520 0026 0850 2734**

Tommy Arnett, Plant Manager  
Rathdrum Power LLC  
P. O. Box 995  
Rathdrum, ID 83858

RE: Facility ID No. 055-00045, Rathdrum Power LLC, Rathdrum  
Final PTC Letter

Dear Mr. Arnett:

The Idaho Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) Number P-020116 which modifies PTC No. 055-00045 issued October 29, 1999 for the <sup>P-990042</sup> Rathdrum facility. The permit is issued in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho), and it is effective immediately.

This permit does not release Rathdrum Power from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

A representative of the Coeur d'Alene 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 Bill Rogers at (208) 373-0437 to address any questions or concerns you may have with the enclosed permit.

Sincerely,

Martin Bauer, Administrator  
Air Quality Division

MB/KH/sd

Permit No. P-020116

Enclosures

c: Tom Harman, Coeur d'Alene Regional Office  
Ken Hanna, Permit Writer  
Bill Rogers, Permit Coordinator  
Laurie Kral, EPA Region 10



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

**PERMIT No.:** P-020116  
**FACILITY ID No.:** 055-00045  
**AQCR:** 62                      **CLASS:** SM <sup>80</sup>  
**SIC:** 4911                      **ZONE:** 11  
**UTM COORDINATE (km):** 505.7, 5292.2

1. **PERMITTEE**  
Rathdrum Power LLC

2. **PROJECT**  
270 MW Gas Turbine Power Generation Facility

3. <b>MAILING ADDRESS</b> PO Box 995	<b>CITY</b> Rathdrum	<b>STATE ID</b>	<b>ZIP</b> 83858
4. <b>FACILITY CONTACT</b> Blake Bolt	<b>TITLE</b> Compliance Supervisor	<b>TELEPHONE</b> 208-687-5570 ext. 226	
5. <b>RESPONSIBLE OFFICIAL</b> Tommy Arnett	<b>TITLE</b> Plant Manager	<b>TELEPHONE</b> 208-687-5570	
6. <b>EXACT PLANT LOCATION</b> 920 Lancaster Road	<b>COUNTY</b> Kootenai		

7. **GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS**  
Electric power generation

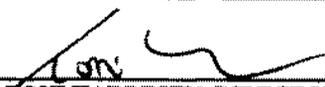
8. **GENERAL CONDITIONS**

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 is not transferable to another person, place, or 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 may require DEQ approval pursuant to the *Rules for the Control of Air Pollution in Idaho*, IDAPA 58.01.01.200, et seq.

  
TONI HARDESTY, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE ISSUED: October 12, 2004

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## Acronyms, Units, and Chemical Nomenclature

acfm	actual cubic feet per minute
AFS	AIRS Facility Subsystem
AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
ASTM	American Society for Testing and Materials
Btu	British thermal unit
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	Environmental Protection Agency
gpm	gallons per minute
gr	grain (1 lb = 7,000 grains)
HAPs	hazardous air pollutants
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
m	meter(s)
MACT	Maximum Achievable Control Technology
MMBtu	million British thermal units
NESHAP	Nation Emission Standards for Hazardous Air Pollutants
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standards
PM	particulate matter
PM <sub>10</sub>	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppmv	parts per million by volume on a dry basis
PSD	Prevention of Significant Deterioration
PTC	permit to construct
PTE	Potential to Emit
Rules	Rules for the Control of Air Pollution in Idaho
scf	standard cubic feet
SIC	Standard Industrial Classification
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
T/yr	tons per year
µg/m <sup>3</sup>	micrograms per cubic meter
UTM	Universal Transverse Mercator
VOC	volatile organic compound

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-020116**

<b>Permittee:</b>	Rathdrum Power LLC	<b>Facility ID No.</b> 055-00045	<b>Date Issued:</b>	October 12, 2004
<b>Location:</b>	Rathdrum, Idaho			

**1. EMISSION LIMITS**

**1.1 NO<sub>x</sub> and CO Emissions**

During normal operation of the turbine with duct firing, emissions of nitrogen oxides (NO<sub>x</sub>) shall not exceed 4.5 parts per million by volume on a dry basis (4.5 ppmvd) at 15% oxygen from the gas turbine stack. When the duct burners are not operating, emissions of NO<sub>x</sub> shall not exceed 3.4 ppmvd at 15% oxygen from the gas turbine stack. The emission limits expressed in ppmvd shall be based on an hourly average and shall apply at all times except during startup or shutdown of the turbine. Emissions of NO<sub>x</sub> from the gas turbine stack shall not exceed the annual emission limit listed in the Appendix, based on each consecutive 12-month period, and the annual limit shall include emissions during startup, shutdown, and malfunction of the turbine.

During normal operation of the turbine with duct firing, emissions of carbon monoxide (CO) from the gas turbine stack shall not exceed 34.6 pounds per hour on an hourly average. This emission limit shall not apply during periods of startup or shutdown of the turbine. Emissions of CO from the gas turbine stack shall not exceed the annual emission limit listed in the Appendix, based on each consecutive 12-month period, and the annual limit shall include emissions during startup, shutdown, and malfunction of the turbine.

On and after the date the performance test required by 40 CFR 60.8 is completed, the owner or operator shall not cause to be discharged to the atmosphere from the stationary gas turbine, any gases which contain NO<sub>x</sub> in excess of 109 ppmvd at 15% oxygen in accordance with 40 CFR 60.332(a)(1). Any emissions which exceed this standard as a result of startup and shutdown shall be addressed in accordance with Permit Condition 4.5.

**1.2 Duct Burner NO<sub>x</sub> Emissions**

On and after the date the initial performance test is completed under 40 CFR 60.44b(a), the permittee shall not cause to be discharged into the atmosphere from the duct burner any gases that contain NO<sub>x</sub> (expressed as NO<sub>2</sub>) in excess of 86 ng/J (0.20 lb/MMBtu) of heat input to the duct burner in accordance with 40 CFR 60.44b(a)(4)(i). The NO<sub>x</sub> emission standards under 40 CFR 60.44b apply at all times when the duct burner is operated in accordance with 40 CFR 60.46b(a).

**1.3 Other Criteria Pollutant Emissions**

Emissions of sulfur dioxide (SO<sub>2</sub>), particulate matter with an aerodynamic diameter of less than or equal to a nominal ten microns (PM<sub>10</sub>), and volatile organic compounds (VOC) from the gas turbine stack shall not exceed any corresponding emission rate limit listed in the Appendix.

1.3.1 The combined emissions of SO<sub>2</sub>, NO<sub>x</sub>, PM<sub>10</sub>, CO, and VOC from the auxiliary boiler and the fuel pre-heater stacks shall not exceed any corresponding emission rate limit listed in the Appendix.

**1.4 Toxic Emissions**

Emissions of formaldehyde, acetaldehyde, benzene, and ammonia from the gas turbine stack shall not exceed any corresponding emissions rate limit listed in Table 1.

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<b>Location:</b>	Rathdrum, Idaho			

**Table 1 TOXIC EMISSION LIMITS**

Source Description	Formaldehyde	Acetaldehyde	Benzene	Ammonia	
	<i>T/Yr</i>	<i>T/yr</i>	<i>T/Yr</i>	<i>lb/Hr</i>	<i>T/Yr</i>
Gas Turbine W/Duct Firing	0.6	0.02	0.3	20.6	82.4

**1.5 Visible Emissions**

Visible emissions from any point of emission at the facility 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 (*Rules for the Control of Air Pollution in Idaho*). Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

**1.6 Odorous Emissions**

Odorous gases shall not be emitted to the atmosphere in such quantities as to cause air pollution in accordance with IDAPA 58.01.01.775.

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<b>Location:</b>	Rathdrum, Idaho			

**2. OPERATING REQUIREMENTS**

**2.1 Fuel Sulfur Content**

No fuel containing sulfur in excess of 0.8% by weight shall be burned in the gas turbine in accordance with 40 CFR 60.333(b).

**2.2 Fuel Type**

The turbine, duct burner, and auxiliary boiler shall be fired exclusively by natural gas.

**2.3 Hours of Operation**

The gas turbine, duct burner, auxiliary boiler, fuel pre-heater, emergency generator, and emergency fire water pump shall not be operated for more than the corresponding allowable hours of operation listed in Table 2.

**Table 2 ALLOWABLE HOURS OF OPERATION**

Source Description	Operating Hours
	<i>hr/yr*</i>
Gas turbine	8,000
Duct burner	2,000
Auxiliary boiler	5,000
Fuel pre-heater	8,000
Emergency generator	500
Emergency fire water pump	500

\*hr/yr means hours of operation per any consecutive 12-month period

**2.4 Reasonable Control of Fugitive Emissions**

All reasonable precautions shall be taken to prevent particulate matter from becoming airborne, as required in IDAPA 58.01.01.651. In determining what is reasonable, considerations will be given to factors such as the proximity of dust-emitting operations to human habitations, and/or activities and atmospheric conditions which might affect the movement of particulate matter. Some of the reasonable precautions include, but are not limited to, the following:

- Use, where practical, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of lands;
- Application, where practical, of asphalt, oil, water or suitable chemicals to, or covering of, dirt roads, material stockpiles, and other surfaces which can create dust;
- Installation and use, where practical, of hoods, fans, and fabric filters, or equivalent systems to enclose and vent the handling of dusty materials. Adequate containment methods should be employed during sandblasting or other operations;
- Covering, where practical, of open-bodied trucks transporting materials likely to give rise to airborne dusts;
- Paving of roadways and their maintenance in a clean condition, where practical; or
- Prompt removal of earth or other stored material from streets, where practical.

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<b>Location:</b>	Rathdrum, Idaho			

**3. MONITORING REQUIREMENTS**

**3.1 NO<sub>x</sub> Monitoring**

The permittee shall fully comply with all monitoring requirements established by 40 CFR 72.9(b). In particular, the permittee shall install, certify, operate, and maintain, in accordance with all the requirements of 40 CFR 75, a NO<sub>x</sub> continuous emission monitoring system (CEMS) (consisting of a NO<sub>x</sub> pollutant concentration monitor and an oxygen (O<sub>2</sub>) or carbon dioxide (CO<sub>2</sub>) diluent gas monitor) with an automated data acquisition and handling system for measuring and recording the NO<sub>x</sub> concentration (in ppm) and the NO<sub>x</sub> emissions rate (in lb/MMBtu) discharged to the atmosphere from the gas turbine stack, except as provided in 40 CFR 75, Subpart E.

The permittee shall fully comply with all recordkeeping requirements set forth in 40 CFR 75, Subpart F. All such records shall be maintained onsite for the most recent two-year period and shall be made available to DEQ representatives upon request.

**3.2 Ammonia Feed Rate Monitoring**

The permittee shall install, calibrate, maintain, and operate a continuous monitoring system to monitor and record the rate of ammonia fed to the Selective Catalytic Reduction (SCR) unit. All data, calibration reports, and maintenance logs or records shall be maintained onsite for the most recent two-year period following the date such data or information was recorded and shall be made available to DEQ representatives upon request.

**3.3 Ammonia Slip Monitoring**

At the time of initial construction, the permittee shall install, calibrate, maintain, and operate a CEMS to monitor and record the rate of ammonia discharged to the atmosphere from the gas turbine stack. If the ammonia CEMS demonstrates compliance with the ammonia emission limit in Permit Condition 1.4 for a period of two consecutive years, then this CEMS may be removed from service. The initial period of operation shall be from August 30, 2001 through August 30, 2003. However, if any subsequent ammonia performance test conducted in accordance with Permit Condition 3.4 indicates that ammonia emissions are greater than 80% of the ammonia emissions limit in Permit Condition 1.4, then DEQ may require that the ammonia CEMS be re-installed. All data, calibration reports, and maintenance logs or records shall be maintained onsite for the most recent two-year period following the date such data or information was recorded and shall be made available to DEQ representatives upon request.

- 3.3.1 If DEQ issues a requirement to re-install the ammonia CEMS, the permittee shall install, calibrate, maintain, and operate a CEMS to monitor and record the rate of ammonia discharged to the atmosphere from the gas turbine stack to demonstrate compliance with Permit Condition 1.4. If the ammonia CEMS demonstrates compliance with the ammonia emission limit in Permit Condition 1.4 for a period of 12 consecutive months, then this CEMS may be removed from service. However, if any subsequent ammonia performance test conducted in accordance with Permit Condition 3.4 indicates that ammonia emissions are greater than 80% of the ammonia emission limit in Permit Condition 1.4, then DEQ may require that the ammonia CEMS be re-installed. All CEMS data, calibration reports, and maintenance logs shall be maintained onsite in accordance with Section 2 of this permit and shall be made available to DEQ representatives upon request.

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- 3.3.2 When the ammonia CEMS is required to be operated, the following actions shall be taken. The permittee shall record:
- a minimum of one cycle of operation (sampling, analyzing, and data recording) in at least 95% of each successive 15-minute interval of turbine operation;
  - the pound per hour ammonia emission rate calculated as a block one-hour arithmetic mean from all valid one minute average data points collected during the hour;
  - the tons per consecutive 12-month period ammonia emission rate calculated as a sum of the previous 8760 hours of available data (recorded at least once per month);
  - results of all daily CEMS calibrations; and
  - quarterly cylinder gas audits.

Cylinder gas audits shall be performed at least quarterly, unless a relative accuracy test audit is performed within that quarter. Relative accuracy test audits (or DEQ approved alternative testing) shall be performed at least once every four quarters. The permittee shall demonstrate compliance with the requirements of 40 CFR Part 60, Appendix F, using the method given by Performance Specification 2 of Appendix B and by substituting ammonia in place of NO<sub>x</sub>. The relative accuracy test audit shall be acceptable if the absolute value of the mean difference between the reference method results and the CEMS readings is less than 2 ppm. Daily calibration results shall be acceptable if they are ± 2 ppm of the reference gas.

**3.4 Ammonia Performance Test**

When an ammonia CEMS is not installed, the permittee shall conduct a performance test to measure ammonia emissions from the gas turbine stack at least once every 12 months, or per a DEQ-approved alternative schedule, to demonstrate compliance with the ammonia emission requirements specified in Permit Condition 1.4. The flow rate of ammonia to the SCR system, and the amount of natural gas combusted in the turbine and duct burners, shall be monitored and recorded during the test. Each performance test conducted to demonstrate compliance shall be performed in accordance with IDAPA 58.01.01.157 and General Provision 7.

**3.5 NSPS Subpart GG Performance Tests**

When required by the Administrator under Section 114 of the Clean Air Act, the permittee shall conduct a performance test using the test methods and procedures in 40 CFR 60.335 and 60.8, or using an alternative approved by the EPA. The performance tests conducted to demonstrate compliance shall be performed in accordance with IDAPA 58.01.01.157 and General Provision 7. During the performance test, the amount of natural gas used shall be recorded.

**3.6 NSPS Subpart Db NO<sub>x</sub> Performance Test for Duct Firing**

When required by the Administrator, under Section 114 of the Clean Air Act, the permittee shall conduct a performance test to measure duct burner NO<sub>x</sub> emissions from the gas turbine emissions stack to demonstrate compliance with the emission limits of 40 CFR 60.44b. Compliance shall be determined through performance testing under 40 CFR 60.46b(f), and in accordance with IDAPA 58.01.01.157 and General Provision 7 of this permit. During the performance test, the amount of natural gas used shall be recorded.

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**3.7 CO Performance Test**

The permittee shall conduct a performance test to measure CO emissions from the gas turbine stack at least once every 12 months, or per a DEQ-approved alternative schedule, to demonstrate compliance with the corresponding emission rate limits in Permit Condition 1.1. The performance test shall be performed in accordance with IDAPA 58.01.01.157 and General Provision 7 of this permit. During the performance test, the amount of natural gas used shall be recorded.

**3.8 Hours of Operation**

The permittee shall monitor and record the hours of operation for each source listed in Table 2, Permit Condition 2.3 to demonstrate compliance with Permit Condition 2.3. Annual hours of operations shall be determined by monitoring and recording the hours of operation monthly, and then summing the monthly hours of operation over the previous consecutive 12-month period. All such records shall be maintained onsite for the most recent two-year period and shall be made available to DEQ representatives upon request.

**3.9 Fuel Sulfur Content**

The permittee shall monitor and record the total sulfur content of the fuel being fired in the turbine in accordance with 40 CFR 60.334(h)(1), except as provided in 40 CFR 60.334(h)(3).

3.9.1 In accordance with 40 CFR 60.334(h)(3), the permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u), regardless of whether an existing custom schedule approved by the administrator for subpart GG requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration:

- The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or
- Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to part 75 of this chapter is required.

3.9.2 With regard to the custom fuel monitoring schedule approved by the EPA in the July 12, 2001 letter addressed to DEQ, the permittee may, without submitting a special petition to the Administrator, continue monitoring on this schedule in accordance with 40 CFR 60.334(h)(4).

3.9.3 The frequency of determining the sulfur content of the fuel shall be as specified in 40 CFR 60.334(i).

**3.10 Duct Burner Monitoring**

In accordance with 40 CFR 60.48b(h), the owner or operator of a duct burner, as described in 40 CFR 60.41b, which is subject to the NO<sub>x</sub> standards of 40 CFR 60.44b(a)(4) or 60.44b(l) is not required to install or operate a continuous emissions monitoring system to measure NO<sub>x</sub> emissions.

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<b>Location:</b>	Rathdrum, Idaho			

**3.11 Selective Catalytic Reduction**

The Selective Catalytic Reduction (SCR) unit shall be installed, operated, and maintained consistent with manufacturer's recommendations, which includes replacement of the catalyst in a timely manner. All documentation and recommendations from the SCR unit manufacturer, including recommended catalyst replacement schedules, shall be kept onsite and shall be made available to DEQ representatives upon request for as long as the SCR unit is utilized.

**3.12 Catalytic Oxidation**

The Catalytic Oxidation unit shall be installed, operated, and maintained consistent with manufacturer's recommendations, which includes replacement of the catalyst in a timely manner. All documentation and recommendations from the Catalytic Oxidation unit manufacturer, including recommended catalyst replacement schedules, shall be kept onsite and shall be made available to DEQ representatives upon request for as long as the Catalytic Oxidation unit is utilized.

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<b>Location:</b>	Rathdrum, Idaho			

**4. REPORTING REQUIREMENTS**

**4.1 Test Protocols for NO<sub>x</sub> CEMS Certification/Recertification Tests**

The permittee shall submit to DEQ for approval a test protocol for each certification and recertification test of the NO<sub>x</sub> CEMS required in Permit Condition 3.1. Each test protocol shall be submitted to DEQ for approval at least 30 days prior to the respective test date.

**4.2 Required NO<sub>x</sub> CEMS Information**

The permittee shall fully comply with the reporting requirements set forth in 40 CFR 75, Subpart G. In accordance with 40 CFR 75.60(b)(2), copies of all certification or recertification notifications, certification or recertification applications, and monitoring plans shall be submitted to DEQ and EPA Region 10 no later than the respective date specified in 40 CFR 75, Subpart G.

Further, the permittee shall submit to DEQ a written report (including all raw field data, etc.) for each certification or recertification test required by Permit Condition 3.1. Each report shall be submitted to DEQ within 60 days of the date on which the respective test was completed.

**4.3 Performance Test Protocols**

The permittee shall submit a test protocol for each performance test required in Permit Conditions 3.4, 3.5, and 3.6 to DEQ for approval at least 30 days prior to the test date.

**4.4 Performance Test Reports**

The permittee shall submit a written report of the performance tests, and ammonia throughput to the SCR unit as required in Permit Conditions 3.4, 3.5, and 3.6 and the ammonia performance test required in Permit Condition 3.4 to DEQ within 60 days of performing each respective test.

**4.5 Turbine Excess Emissions - NSPS**

For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under 40 CFR Part 60 Subpart GG, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with 40 CFR 60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined as follows in accordance with 40 CFR 60.334(j):

**4.5.1 With regard to NO<sub>x</sub> for turbines using NO<sub>x</sub> and diluent CEMS, in accordance with 40 CFR 60.334(j)(1)(iii):**

- An hour of excess emissions shall be any unit operating hour in which the 4-hour rolling average NO<sub>x</sub> concentration exceeds 109 ppmvd at 15% oxygen [the applicable emission limit in 40 CFR 60.332(a)(1)]. For the purposes of this requirement, a "4-hour rolling average NO<sub>x</sub> concentration" is the arithmetic average of the average NO<sub>x</sub> concentration measured by the CEMS for a given hour (corrected to 15 percent O<sub>2</sub> and, if required under 40 CFR 60.335(b)(1), to ISO standard conditions) and the three unit operating hour average NO<sub>x</sub> concentrations immediately preceding that unit operating hour.

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- A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour, for either NO<sub>x</sub> concentration or diluent (or both).
- Each report shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period. You do not have to report ambient conditions if you opt to use the worst case ISO correction factor as specified in 40 CFR 60.334(b)(3)(ii), or if you are not using the ISO correction equation under the provisions of 40 CFR 60.335(b)(1).
- The permittee may, for purposes of determining excess NO<sub>x</sub> emissions, use a CEMS that meets the requirements of 40 CFR 60.334(b), in accordance with 40 CFR 60.334(c).

4.5.2 With regard to SO<sub>2</sub>, in accordance with 40 CFR 60.334(j)(2)(i):

For samples of gaseous fuel obtained using daily sampling, flow proportional sampling, or sampling from the unit's storage tank, an excess emission occurs each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 weight percent and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit.

4.5.3 All reports required under 40 CFR 60.7(c) shall be postmarked by the 30th day following the end of each calendar quarter in accordance with 40 CFR 60.334(j)(5).

**4.6 Other Exceedances**

The permittee shall submit a report to the DEQ of any and all exceedances of any emission rate, visible emission, or operating requirement listed in Sections 1 and 2 of this permit in accordance with IDAPA 58.01.01.130-136.

**4.7 Certification of Documents**

All documents including, but not limited to, records, monitoring data, supporting information, testing reports, or compliance certifications submitted to DEQ shall contain a certification by a responsible official per IDAPA 58.01.01.123. 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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<b>Location:</b>	Rathdrum, Idaho			

## APPENDIX

### Rathdrum Power LLC

Emission Limits<sup>a</sup> - Hourly (lb/hr) and Annual (T/yr)<sup>b</sup>

**CRITERIA POLLUTANT EMISSIONS LIMITS**

Source Description	SO <sub>2</sub>		NO <sub>x</sub>	CO		VOC		PM <sub>10</sub> <sup>c</sup>	
	lb/hr	T/yr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Gas Turbine w/Duct Firing	2.70	10.4	92.1	—	92.3	1.5	4.7	10.7	37.7
Combined Emissions from Auxiliary Boiler and Fuel Pre-Heater	0.015	0.04	5.5	2.0	5.6	0.05	0.14	0.19	0.6

- <sup>a</sup> As determined by pollutant specific U.S. EPA Reference Method, DEQ-approved alternative, or as determined by DEQ's emission estimation methods used in the permit analysis.
- <sup>b</sup> As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emissions rate by the allowable hours per year that the processes may operate, or by actual annual production rates. The permittee shall not exceed the T/yr listed based on any consecutive 12-month period.
- <sup>c</sup> Includes condensibles.

**AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-020116**

<b>Permittee:</b>	Rathdrum Power LLC	<b>Facility ID No.</b> 055-00045	<b>Date Issued:</b>	October 12, 2004
<b>Location:</b>	Rathdrum, Idaho			

**5. 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. The Director may require the permittee to develop a list of operation and maintenance procedures to be submitted to DEQ. 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.
7. 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 60 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.

8. 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.