DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0210TVP03 Issue Date: Public Comment - May 15, 2014
Expiration Date: Five Years

The Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **Nome Joint Utility System**, for the operation of the **Snake River Power Plant**.

This permit satisfies the obligation of the owner and operator to obtain an operating permit as set out in AS 46.14.130(b).

As set out in AS 46.14.120(c), the Permittee shall comply with the terms and conditions of this operating permit.

Citations listed herein are contained within 18 AAC 50 dated October 6, 2013 Register 208. All federal regulation citations are from those sections adopted by reference in this version of regulation in 18 AAC 50.040 unless otherwise specified.

Upon effective date of this permit, Operating Permit No. AQ0210TVP02 expires.

This Operating Permit becomes effective <insert date—30 days after issue date>.

John F. Kuterbach, Manager
Air Permits Program

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List of Abbreviations Used in this Permit

AAC.....Alaska Administrative Code
ADEC .....Alaska Department of Environmental Conservation
AS .....Alaska Statutes
ASTM.....American Society for Testing and Materials
BACT .....Best Available Control Technology
BHp .....Boiler Horsepower
C.F.R. .....Code of Federal Regulations
The Act .....Clean Air Act
CO .....Carbon Monoxide
dscf .....Dry standard cubic foot
EPA .....US Environmental Protection Agency
EU.....Emission Unit
gr./dscf .....grain per dry standard cubic foot (1 pound = 7000 grains)
GPH .....gallons per hour
HAPs .....Hazardous Air Pollutants [HAPs as defined in AS 46.14.990]
ID.....Emission Unit Identification Number
kPa .....kiloPascals
LAER.....Lowest Achievable Emission Rate
MACT .....Maximum Achievable Control Technology [MACT as defined in 40 C.F.R. 63]
MMBtu/hr.....Million British thermal units per hour
MMSCF.....Million standard cubic feet
MR&R .....Monitoring, Recordkeeping, and Reporting
NESHAPs.....Federal National Emission Standards for Hazardous Air Pollutants [NESHAPs as contained in 40 C.F.R. 61 and 63]
NO_X .....Nitrogen Oxides
NSPS .....Federal New Source Performance Standards [NSPS as contained in 40 C.F.R. 60]
O & M .....Operation and Maintenance
O_2 .....Oxygen
PAL .....Plantwide Applicability Limitation
PM-10 .....Particulate Matter less than or equal to a nominal ten microns in diameter
ppm .....Parts per million
ppmv, ppmvd .....Parts per million by volume on a dry basis
psia .....Pounds per Square Inch (absolute)
PSD .....Prevention of Significant Deterioration
PTE .....Potential to Emit
SIC. .....Standard Industrial Classification
SO_2 .....Sulfur dioxide
TPH .....Tons per hour
TPY .....Tons per year
VOC .....volatile organic compound [VOC as defined in 40 C.F.R. 51.100(s)]
VOL .....volatile organic liquid [VOL as defined in 40 C.F.R. 60.111b, Subpart Kb]
vol% .....volume percent
wt% .....weight percent

Section 1. Stationary Source Information

Identification

Permittee:		Nome Joint Utility System P.O. Box 70 Nome, Alaska 99762
Stationary Source Name:		Snake River Power Plant
Location:		UTM Coordinates Zone 3 Northing 7,153,500 m Easting 479,500 m
Physical Address:		West 5th & West K Street Nome, Alaska 99762
Owner/Operator:		Nome Joint Utility System P.O. Box 70 Nome, Alaska 99762
Permittee's Responsible Official and Designated Agent:		John K. Handeland General Manager/Chief Operating Officer P.O. Box 70 Nome, Alaska 99762
Stationary Source and Building Contact:		John K. Handeland General Manager/Chief Operating Officer P.O. Box 70 Nome, Alaska 99762 (907) 443-6302 johnh@njus.org
Fee and Permit Contact:		John K. Handeland General Manager/Chief Operating Officer P.O. Box 70 Nome, Alaska 99762 (907) 443-6302 johnh@njus.org
Process Description:	SIC Code	4911 - Electric Services
	NAICS Code:	221112 - Electric power generation, fossil fuel

[18 AAC 50.040(j)(3) & 50.326(a)]
[40 C.F.R. 71.5(c)(1) & (2)]

Section 2. Emission Unit Inventory and Description

Emission units listed in Table A have specific monitoring, recordkeeping, or reporting conditions in this permit. Emission unit descriptions and ratings are given for identification purposes only.

Table A - Emission Unit Inventory

EU ID	Emission Unit Name	Emission Unit Description	Rating/Size	Installation or Construction Date
12a	Diesel Electric Generator	Caterpillar #3616	3,660 kWe	1991
14	Diesel Electric Generator	Caterpillar #3516B-LS	1,875 kWe	1999
15	Diesel Electric Generator	Wärtsilä #12V32B	5,211 kWe	2005
16	Diesel Electric Generator	Wärtsilä #12V32B	5,211 kWe	2005
18a	Black Start Generator	Caterpillar #3456B	400 kWe	2005
19a	Standby Diesel-Fired Boiler	PVI Industries Model #50WBHE 100A-TPO	3.06 MMBtu/hr	2005
19b	Standby Diesel-Fired Boiler	PVI Industries Model #50WBHE 100A-TPO	3.06 MMBtu/hr	2005
20	Used Oil Furnace	Black Gold Oil	<0.3 MMBtu/hr	2005

Notes:

1. EU ID 17 (Wärtsilä #12V32B) was never installed, and authorization to construct this unit has been withdrawn.
2. EU IDs 9 and 11 (diesel electric generators) have been removed from the stationary source.

[18 AAC 50.326(a)]
[40 C.F.R. 71.5(c)(3)]

Section 3. State Requirements

Visible Emissions Standards

1. Industrial Process and Fuel-Burning Equipment Visible Emissions. The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 12a, 14 through 16, 18a, 19a, 19b, and 20 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.040(j), 50.055(a)(1), & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

1.1. For EU IDs 19a, 19b, and 20, verify initial compliance using Condition 1.1.a and using all possible fuels for each unit[1].

a. Conduct an initial 18-minute Method 9 visible emission source test in accordance with Section 6 on EU IDs 19a, 19b, and 20 within 90 days after initial start-up and attach a copy of the surveillance records to the operating report required by Condition 57.

[Condition 4.1.a, Minor Permit AQ0210MSS01, Date]

b. Report the results of any Method 9 observations that exceed an average of 20 percent opacity for any six-minute period in accordance with Condition 56.

[40 C.F.R. 71.6(a)(3)]

1.2. For EU IDs 12a, 14 through 16, 18a, 19a, and 19b, monitor, record and report in accordance with Conditions 2 through 4.

1.3. For EU ID 20, monitor, record, and report in accordance with Condition 21.4.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)]

Visible Emissions Monitoring, Recordkeeping and Reporting

Liquid Fuel-Fired Emission Units (EU IDs 12a, 14 through 16, 18a, 19a, and 19b)

2. Visible Emissions Monitoring. The Permittee shall observe the exhaust of EU IDs 12a, 14 through 16, 18a, 19a, and 19b for visible emissions using either the Method 9 Plan under Condition 2.1 or the Smoke/No-Smoke Plan under Condition 2.2. The Permittee may change visible-emissions plans for an emission unit at any time unless prohibited from doing so by Condition 2.3. The Permittee may for each unit elect to continue the visible emissions monitoring schedule in effect from the previous permit at the time a renewed permit is issued, if applicable.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i)]

[1] Using all possible fuels; regular diesel may not be available at start up if using low sulfur diesel.

2.1. **Method 9 Plan.** For all 18-minute observations in this plan, observe exhaust, following 40 C.F.R. 60, Appendix A-4, Method 9, adopted by reference in 18 AAC 50.040(a), for 18 minutes to obtain 72 consecutive 15-second opacity observations.

a. **First Method 9 Observation**.

(i) For any unit, observe exhaust for 18 minutes within 14 calendar days after changing from the Smoke/No-Smoke Plan of Condition 2.2.

(ii) For any unit replaced during the term of this permit, observe exhaust for 18 minutes within 30 days of startup.

b. **Monthly Method 9 Observations**. After the first Method 9 observation, perform 18-minute observations at least once in each calendar month that an emission unit operates.

c. **Semiannual Method 9 Observations**. After observing emissions for three consecutive operating months under Condition 2.1.b, unless a six-minute average is greater than 15 percent and one or more observations are greater than 20 percent, perform 18-minute observations:

(i) Within six months after the preceding observation, or

(ii) For an emission unit with intermittent operations, during the next scheduled operation immediately following six months after the preceding observation.

d. **Annual Method 9 Observations**. After at least two semiannual 18-minute observations, unless a six-minute average is greater than 15 percent and one or more individual observations are greater than 20 percent, perform 18-minute observations:

(i) Within twelve months after the preceding observation; or

(ii) For an emission unit with intermittent operations, during the next scheduled operation immediately following twelve months after the preceding observation

e. **Increased Method 9 Frequency**. If a six-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more observations are greater than 20 percent, then increase or maintain the 18-minute observation frequency for that emission unit to at least monthly intervals as described in Condition 2.1.b, until the criteria in Condition 2.1.c for semiannual monitoring are met.

2.2. **Smoke/No Smoke Plan.** Observe the exhaust for the presence or absence of visible emissions, excluding condensed water vapor.

a. **Initial Monitoring Frequency**. Observe the exhaust during each calendar day that an emission unit operates.

b. **Reduced Monitoring Frequency**. After the emission unit has been observed on 30 consecutive operating days, if the emission unit operated without visible smoke in the exhaust for those 30 days, then observe emissions at least once in every calendar month that an emission unit operates.

c. **Smoke Observed**. If smoke is observed, either begin the Method 9 Plan of Condition 2.1 or perform the corrective action required under Condition 2.3.

2.3. **Corrective Actions Based on Smoke/No Smoke Observations**. If visible emissions are present in the exhaust during an observation performed under the Smoke/No Smoke Plan of Condition 2.2, then the Permittee shall either follow the Method 9 Plan of Condition 2.1 or

a. initiate actions to eliminate smoke from the emission unit within 24 hours of the observation;

b. keep a written record of the starting date, the completion date, and a description of the actions taken to reduce smoke; and

c. after completing the actions required under Condition 2.3.a,

(i) take smoke/no smoke observations in accordance with Condition 2.2.

(A) at least once per day for the next seven operating days and until the initial 30 day observation period is completed; and

(B) continue as described in Condition 2.2.b; or

(ii) if the actions taken under Condition 2.3.a do not eliminate the smoke, or if subsequent smoke is observed under the schedule of Condition 2.3.c(i)(A), then observe the exhaust using the Method 9 Plan unless the Department gives written approval to resume observations under the Smoke/No Smoke Plan; after observing smoke and making observations under the Method 9 Plan, the Permittee may at any time take corrective action that eliminates smoke and restart the Smoke/No Smoke Plan under Condition 2.2.a.

3. Visible Emissions Recordkeeping. When required by Condition 1.2, or in the event of replacement of any of EU IDs 12a, 14 through 16, 18a, 19a, and 19b during the permit term, the Permittee shall keep records as follows:

[18 AAC 50.040(j); 50.326(j) and 50.346(c)]
[40 C.F.R. 71.6(a)(3)(ii)]

3.1. When using the Method 9 Plan of Condition 2.1,

a. the observer shall record

(i) the name of the stationary source, emission unit and location, emission unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 11;[2]

(ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating mode (load or fuel consumption rate or best estimate if unknown) on the sheet at the time opacity observations are initiated and completed;

(iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;

(iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emissions Observation Form in Section 11, and

(v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.

b. To determine the six-minute average opacity, divide the observations recorded on the record sheet into sets of 24 consecutive observations; sets need not be consecutive in time and in no case shall two sets overlap; for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; record the average opacity on the sheet.

c. Calculate and record the highest 6-minute and 18-consecutive-minute averages observed.

3.2. If using the Smoke/No Smoke Plan of Condition 2.2, record the following information in a written log for each observation and submit copies of the recorded information upon request of the Department:

a. the date and time of the observation;

b. from Table A, the ID of the emission unit observed;

c. whether visible emissions are present or absent in the exhaust;

d. a description of the background to the exhaust during the observation;

e. if the emission unit starts operation on the day of the observation, the startup time of the emission unit;

f. name and title of the person making the observation; and

[2] The Permittee may use the EPA Method 9 Observation Form found in 40 C.F.R. 60 Appendix A Method 9 or other such form as long as it contains all of the information required by the Visible Emissions Form in Section 11.

g. operating mode (load or fuel consumption rate).

4. Visible Emissions Reporting. When required by Condition 1.2, or in the event of replacement of any of EU IDs 12a, 14 through 16, 18a, 19a, and 19b during the permit term, the Permittee shall report visible emissions as follows:

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(iii)]

4.1. Include in each operating report under Condition 57 for the period covered by the report:

a. which visible-emissions plan of Condition 2 was used for each emission unit; if more than one plan was used, give the time periods covered by each plan;

b. for each emission unit under the Method 9 Plan,

(i) copies of the observation results (i.e. opacity observations) for each emission unit that used the Method 9 Plan, except for the observations the Permittee has already supplied to the Department; and

(ii) a summary to include:

(A) number of days observations were made;

(B) highest six-minute average observed; and

(C) dates when one or more observed six-minute averages were greater than 20 percent;

c. for each emission unit under the Smoke/No Smoke Plan, the number of days that smoke/no smoke observations were made and which days, if any, that smoke was observed; and

d. a summary of any monitoring or recordkeeping required under Condition 2 and 3 that was not done;

4.2. Report under Condition 56:

a. the results of Method 9 observations that exceed an average of 20 percent opacity for any six-minute period; and

b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.

Particulate Matter Emissions Standards

5. Industrial Process and Fuel-Burning Equipment Particulate Matter. The Permittee shall not cause or allow particulate matter emitted from EU IDs 12a, 14 through 16, 18a, 19a, 19b, and 20 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.040(j), 50.055(b)(1) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

5.1. For EU IDs 12a, 14 through 16, 18a, 19a, and 19b, monitor, record and report in accordance with Conditions 6 through 10.

5.2. For EU ID 20, monitor, record, and report in accordance with Condition 21.4.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)]

PM Monitoring, Recordkeeping and Reporting

Liquid Fuel-Fired Engines (EU IDs 12a, 14 through 16, and 18a)

6. Particulate Matter Monitoring for Diesel Engines. The Permittee shall conduct source tests on diesel engines, EU IDs 12a, 14 through 16, and 18a, to determine the concentration of particulate matter (PM) in the exhaust of an emission unit in accordance with this Condition 6.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i)]

6.1. Except as provided in Condition 6.4 within six months of exceeding the criteria of Condition 6.2.a or 6.2.b, either

a. conduct a PM source test according to requirements set out in Section 6; or

b. make repairs so that emissions no longer exceed the criteria of Condition 6.2; to show that emissions are below those criteria, observe emissions as described in Condition 2.1 under load conditions comparable to those when the criteria were exceeded.

6.2. Conduct the PM source test or make repairs according to Condition 6.1 if

a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or

b. for an emission unit with an exhaust stack diameter that is less than 18 inches, 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity that is greater than 15 percent and not more than 20 percent, unless the Department has waived this requirement in writing.

6.3. During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the highest average 6-minute opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.

6.4. The automatic PM source test requirement in Condition 6.1 and 6.2 is waived for an emissions unit if a PM source test on that unit has shown compliance with the PM standard during this permit term.

7. Particulate Matter Reporting for Diesel Engines. The Permittee shall report as follows:

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(iii)]

7.1. Report under Condition 56

a. the results of any PM source test that exceed the PM emissions limit; or

b. if one of the criteria of Condition 6.2 was exceeded and the Permittee did not comply with either Condition 6.1.a or 6.1.b, this must be reported by the day following the day compliance with Condition 6.1 was required;

7.2. Report observations in excess of the threshold of Condition 6.2.b within 30 days of the end of the month in which the observations occur;

7.3. In each operating report under Condition 57, include for the period covered by the report:

a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 6.2;

b. a summary of the results of any PM testing under Condition 6; and

c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 6.2, if they were not already submitted.

For Liquid Fuel-Fired Boilers (EU IDs 19a and 19b)

8. Particulate Matter Monitoring for Liquid Fuel-Fired Boilers. The Permittee shall conduct source tests on EU IDs 19a and 19b to determine the concentration of PM in the exhaust of EU IDs 19a and 19b as follows:

[18 AAC 50.040(j), & 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3)(i) & (c)(6)]

8.1. Except as required under Condition 8.3, conduct a PM source test according to the requirements set out in Section 6 no later than 90 calendar days after any time corrective maintenance fails to eliminate visible emissions greater than the 20 percent opacity threshold for two or more 18-minute observations in a consecutive six-month period.

8.2. During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the average opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.

8.3. The PM source test requirement in Condition 8 is waived for an emission unit if:

a. a PM source test on that unit has shown compliance with the PM standard during the permit term; or

b. take corrective action and conduct two 18-minute visible emissions observations in a consecutive six-month period to show that the excess visible emissions described in Condition 8.1 no longer occur.

9. Particulate Matter Recordkeeping for Liquid Fuel-Fired Boilers. The Permittee shall keep records of the results of any PM testing and visible emissions observations conducted under Condition 8.

[18 AAC 50.040(j) & 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3)(ii) & (c)(6)]

10. Particulate Matter Reporting for Liquid Fuel-Fired Boilers and Heaters. The Permittee shall report as follows:

[18 AAC 50.040(j) & 50.326(j)(4)]
[40 C.F.R. 71.6(a)(3)(iii) & (c)(6)]

10.1. In each operating report required by Condition 57, include for the period covered by the report:

a. the dates, EU ID(s), and results when an 18-minute opacity observation was greater than the applicable threshold criterion in Condition 2.1.e.

b. a summary of the results of any PM testing and visible emissions observations conducted under Condition 8.

10.2. Report as excess emissions, in accordance with Condition 56, any time the results of a source test for PM exceed the PM emission limit stated in Condition 5.

Sulfur Compound Emission Standards Requirements

11. Sulfur Compound Emissions. In accordance with 18 AAC 50.055(c), the Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from EU IDs 12a, 14 through 16, 18a, 19a, 19b, and 20 to exceed 500 ppm averaged over three hours.

[18 AAC 50.040(j), 50.055(c), & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

For Fuel Oil[3]-Fired Emission Units (EU IDs 12a, 14 through 16, 18a, 19a, 19b, and 20)

11.1. The Permittee shall comply with the fuel sulfur content limit of Condition 16.[4]

11.2. The Permittee shall monitor, keep records, and report as required by Conditions 16.1 through 16.4.

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)]

[3] *Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 C.F.R. 60.41b, effective 7/1/07.
[4] Compliance with the fuel sulfur limit of Condition 16 assures compliance with the SO_2 emission limit of Condition 11.

Pre-construction Permit[5] Requirements

Used Oil Requirements

12. Burning Used (Lubrication) Oil. The Permittee may burn used oil fuel blends in EU ID 20 as follows[6]:

[Condition 7, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

12.1. Analyze each batch of used oil to determine the sulfur content using an approved ASTM method such as ASTM D129, D1266, D1522, D2622, D4045, or D4294. Maintain records showing the results of each analysis.

12.2. Blend the used fuel oil with virgin fuel oil at a ratio that will ensure compliance with the sulfur limit of Condition 16. However, the used oil fuel blend shall be mixed at a ratio of no more than 1 part used oil with 6 parts fuel oil, unless the Permittee provides a Department approved demonstration that a greater ratio will comply with the limit in Condition 16.

12.3. Report in accordance with Condition 56 any time the blend ratio or other requirements deviate from this condition.

Ambient Air Quality Protection Requirements

13. Except as provided for in Conditions 13.1 through 13.4, construct and operate the stationary source in accordance with the stack parameters specified in Table B of this permit.

[Condition 8, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

13.1. Notify the Department prior to deviating from any emission unit stack parameter listed in Table B of this permit.

13.2. Ask the Department whether additional ambient impact assessment modeling is warranted for the proposed change.

13.3. Upon receiving written Department notice that modeling is warranted, prepare and submit to the Department an ambient impact assessment for the specified air contaminant and averaging period.

13.4. The Permittee shall not make any stack changes until the Department concurs in writing that the proposed change will not interfere with attainment or maintenance of ambient standards and increments.

[5] *Pre-construction Permit* refers to federal PSD permits, state-issued permits-to-operate issued before January 18, 1997 (these permits cover both construction and operations), construction permits issued after January 17, 1997, and minor permits issued after October 1, 2004.

[6] Although this condition should ensure compliance with the applicable emission standards of 18 AAC 50, this permit does NOT ensure compliance with other applicable state or federal laws concerning management, use, or disposal of used oil.

14. Stack Parameter Requirements. The Permittee shall operate EUs 12a, 14, 15, 16, 18a, 19a, and 19b with stacks as specified in Table B.

[Condition 9, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

Table B – Required Stack Parameters: Emission Units 12a, 14, 15, 16, 18a, 19a, and 19b

Emission Unit		Maximum Exit Diameter (meters)	Minimum Stack Height [1] (meters)	Stack Orientation [2]
Name	**ID**			
CAT 3616	12a	***Existing - keep stack as is-***		Vertical
CAT 3516B	14	0.61	20.10	Vertical
Wartsila 12V32B	15	0.61	22.10	Vertical
	16	0.61	22.10	Vertical
Caterpillar #3456B	18a	0.21	14.59	Vertical
PVI Industries Model #50WBHE 100A-TPO	19a	0.33	14.50	Vertical
PVI Industries Model #50WBHE 100A-TPO	19b	0.33	14.50	Vertical

[1] Stack Height is the height, in meters (m), measured from the existing grade to the top of the stack.
[2] Stacks are not equipped with rain caps.

[Table 2, Minor Permit No. AQ0210MSS01, date]

14.1. Provide the vertical stacks for EUs 14, 15, 16, and 18a with:

a. sampling ports that comport with 40 C.F.R. 60, Appendix A, Method 1, Section 2.1, and a stack or duct free of cyclonic flow at the port location during the applicable test methods and procedures;

b. safe sampling platforms;

c. safe access to sampling platforms; and

d. utilities for emission sampling and testing equipment.

15. Hourly Operational Limit for Emission Unit 14. The Permittee shall not operate EU ID 14 more than 1,000 hours in any 12 consecutive month period.

[Condition 10, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

15.1. Equip EU ID 14 with a dedicated engine hour meter.

15.2. Monitor and record the engine hours of operation for EU ID 14, including the start-up and shut down times and dates.

15.3. Calculate the 12 consecutive monthly hours of operation for EU ID 14.

15.4. Report the engine hours of operation in each operating report required by Condition 57.

15.5. Report in accordance with Condition 56 when the 12 consecutive monthly hours of operation for EU ID 14 exceed 1,000 hours.

16. Fuel Oil Sulfur Content: For EUs 12a, 14 through 16, 18a, 19a, 19b, and 20, the Permittee shall not allow the sulfur content of the fuel burned to exceed 0.5 percent sulfur by weight at any time.

[Condition 11, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

16.1. Obtain a certificate or receipt from the fuel supplier certifying the grade of the fuel for each shipment of fuel delivered to the facility. If a receipt is not available from the supplier, analyze a representative sample of the fuel to determine the sulfur content using ASTM method D 129-00, D1266-98, D1552-95, D2622-98, D4294-98, D4045-99, or an alternative method approved by the Department.

16.2. If the sulfur content of any diesel fuel delivery exceeds 0.5 percent sulfur by weight, then determine the fuel sulfur content of the blended fuel by calculating for each batch the weighted average percentage sulfur content using the formula:

(% BF * % S BF) + (% DF * % S DF) / 100 = Total S % by weight diesel blend

Where: % BF = Percentage Blended Fuel by weight

% S BF = Percentage Sulfur content of Blended Fuel by weight

% DF = Percentage Diesel Fuel by weight

% S DF = Percentage Sulfur content of Diesel Fuel by weight

% S = Percent Sulfur by weight

16.3. Report copies of all records in Condition 16.1 and 16.2 in each operating report required by Condition 57.

16.4. Report in accordance with Condition 56 when the fuel sulfur content exceeds the limit in Condition 16.

NO_X, CO, PM-10, and SO_2 BACT Limits

17. NO_X Emission BACT Limits.

17.1. Limit NO_X emissions from EU 12a to no greater than 188 lb/hr, expressed as NO_2, averaged over the duration of the emission performance test or any three consecutive hours.

17.2. Limit NO_X emissions from EU 14 to no greater than 43 lb/hr, expressed as NO_2, averaged over the duration of the emission performance test or any three consecutive hours.

17.3. Limit NO_X emissions from EUs 15 and 16 to no greater than 134.0 lb/hr for each emission unit at 100 percent load of the generator (5,211 kWe). The NO_X emissions are expressed as NO_2, averaged over any three hours.

[Conditions 12.1 through 12.3, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

17.4. The Permittee shall monitor, record, and report as follows:

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(i) through (iii)]

a. For EU ID 12a:

(i) Conduct a NO_X source test within one year of the effective date of this permit and at least once within 5 years of the most recent NO_X source test thereafter.

[40 C.F.R. 71.6(a)(3)(i)]

(ii) Record the fuel injection timing retard (FITR) setting each time it is adjusted and include copies of these records in the operating reports required by Condition 57.

(iii) Conduct a NO_X source test within 30 days of any timing adjustment to less than 2.5 degrees of FITR (fuel injection at 14.5 degrees before top dead center).

[Condition 12.4.a(i) & (ii), Minor Permit No. AQ0210MSS01, date]

b. For EU ID 14, conduct a NO_X source test within one year of the effective date of this permit and at least once every 5 years thereafter.

[40 C.F.R. 71.6(a)(3)(i)]

c. For EU IDs 15 and 16:

(i) Record the FITR setting each time it is adjusted and include copies of these records in the operating reports required by Condition 57.

(ii) Within 30 days of any timing adjustment to less than 3 degrees of FITR, conduct a NO_X source test on the adjusted unit. If both units are set to the same FITR setting, one representative unit may be tested.

[Condition 12.4.b(i) & (ii), Minor Permit No. AQ0210MSS01, date]

(iii) Conduct NO_X source tests at least once within 5 years of the most recent NO_X source test and at least once every 5 years thereafter.

[40 C.F.R. 71.6(a)(3)(i)]

d. NO_X source tests shall be conducted in accordance with Section 6, and NO_X emission rates, expressed as NO_2, shall be determined using Method 19. Compliance with the BACT limits shall be determined using the average of three one-hour test runs.

e. Report in accordance with Condition 56 whenever NO_X emissions, expressed as NO_2, exceed any limit in Conditions 17.1 through 17.3.

[Condition 12.4.c and d, Minor Permit No. AQ0210MSS01, date]

18. CO Emission BACT Limit for Main Generators: Limit the CO emissions from EU IDs 15 and 16 to no greater than 10.5 lb/hr for each emission unit at 100 percent load of the generator (5,211 kW electric). The CO emissions are averaged over any three hours.

[Condition 13, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

18.1. For EU IDs 15 and 16, the Permittee shall:

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(i) & (iii)]

a. Conduct a CO source test within one year of the effective date of this permit and at least once every 5 years thereafter.

(i) If both units are set to the same FITR setting, one representative unit may be tested.

(ii) CO source tests shall be conducted in accordance with Section 6, and CO emission rates shall be determined using Method 19. Compliance with the BACT limits shall be determined using the average of three one-hour test runs.

b. Report in accordance with Condition 56 whenever CO emissions exceed the limit in Condition 18.

19. PM Emission BACT Limit for Main Generators: Limit the PM emissions from EUs 15 and 16 to no greater than 2.6 lb/hr for each emission unit at 100 percent load of the generator (5,211 kW electric). The PM emissions are averaged over any three hours.

[Condition 14, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

19.1. For EU IDs 15 and 16, the Permittee shall:

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(i) & (iii)]

a. Conduct a PM source test within one year of the effective date of this permit and at least once every 5 years thereafter.

(i) If both units are set to the same FITR setting, one representative unit may be tested.

(ii) PM source tests shall be conducted in accordance with Section 6, and PM emission rates shall be determined using Method 19. Compliance with the BACT limits shall be determined using the average of three one-hour test runs.

b. Report in accordance with Condition 56 whenever PM emissions exceed the limit in Condition 19.

20. SO_2 Emission BACT Limits. Limit the SO_2 emissions from EUs 12a, 14, 15, 16, and 18a by using fuel that limits sulfur content to less than 0.5 percent by weight as required by Condition 16. The Permittee shall monitor, record, and report as required by Conditions 16.1 through 16.4.

[Condition 15, Minor Permit No. AQ0210MSS01, date]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)(i) through (iii)]

Insignificant Emission Units

21. For EU ID 20 listed in Table A and for emission units at the stationary source that are insignificant as defined in 18 AAC 50.326(d) through (i) that are not listed in this permit, the following apply:

21.1. **VE Standard**: The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from an industrial process, fuel-burning equipment, or an incinerator to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.050(a) & 50.055(a)(1)]

21.2. **PM Standard**: The Permittee shall not cause or allow particulate matter emitted from an industrial process or fuel-burning equipment to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.055(b)(1)]

21.3. **Sulfur Standard**: The Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

21.4. General MR&R for Insignificant Emission Units

a. The Permittee shall submit the certification of compliance of Condition 58 based on reasonable inquiry;

b. The Permittee shall comply with the requirements of Condition 39;

c. The Permittee shall report in the operating report required by Condition 57 if an emission unit is insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and actual emissions become greater than any of those thresholds; and

d. No other monitoring, recordkeeping or reporting is required, except as provided in Condition 1.1, 12, and 16.

[18 AAC 50.346(b)(4)]

Section 4. Federal Requirements

Emission Units Subject to Federal NESHAP Subpart A

22. NESHAP Subpart A.

22.1. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall comply with the applicable requirements of 40 C.F.R. 63 Subpart A in accordance with the provisions for applicability of Subpart A in NESHAP Subpart ZZZZ, Table 8.

[18 AAC 50.040(c)(1) & 50.326(j)]
[40 C.F.R. 63.6665, Subpart ZZZZ]

22.2. For EU IDs 19a and 19b, the Permittee shall comply with the applicable requirements of 40 C.F.R. 63 Subpart A in accordance with the provisions for applicability of Subpart A in NESHAP Subpart JJJJJJ, Table 8.

[18 AAC 50.040(c)(1) & 50.326(j)]
[40 C.F.R. 63.11235, Subpart JJJJJJ]

Engines Subject to Federal NESHAP Subpart ZZZZ

23. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall comply with all applicable requirements of NESHAP Subpart ZZZZ for stationary reciprocating internal combustion engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions.

[18 AAC 50.040(c)(23), (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 63.6585 & 63.6590, Subpart ZZZZ]

23.1. For EU IDs 12a, 14 through 16, and 18a, the Permittee must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013.

[18 AAC 50.040(c)(23), (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 63.6595(a)(1), Subpart ZZZZ]

NESHAP Subpart ZZZZ Emission Limitations, Operating Limitations, and Other Requirements

23.2. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall comply with the following:

[18 AAC 50.040(c)(23), (j)(4), & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

a. You must meet the following requirements, except during periods of startup:

(i) Change oil and filter every 1,000 hours of operation or annually, whichever comes first;

(ii) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;

(iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

b. During periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

c. Sources have the option to utilize an oil analysis program as described in Condition 23.4.b in order to extend the specified oil change requirement in Condition 23.2.a(i).

[40 C.F.R. 63.6603(a), (b), (b)(1), & Table 2d, Item 1, Subpart ZZZZ]

NESHAP Subpart ZZZZ General Requirements

23.3. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall comply with the following:

[18 AAC 50.040(c)(23), (j)(4), & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

a. You must be in compliance with the emission limitations, operating limitations, and other requirements in NESHAP Subpart ZZZZ that apply to you at all times.

[40 C.F.R. 63.6605(a), Subpart ZZZZ]

b. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the EPA and Department which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. 63.6605(b), Subpart ZZZZ]

NESHAP Subpart ZZZZ Monitoring, Installation, Collection, Operation, and Maintenance Requirements

23.4. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall comply with the following:

[18 AAC 50.040(c)(23), (j)(4), & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (a)(3)(i)]

a. You must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Condition 23.2.a apply.

[40 C.F.R. 63.6625(h), Subpart ZZZZ]

b. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition 23.2.a(i). The oil analysis must be performed at the same frequency specified for changing the oil in Condition 23.2.a(i). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[40 C.F.R. 63.6625(i), Subpart ZZZZ]

NESHAP Subpart ZZZZ Demonstration of Continuous Compliance with Emission Limitations, Operating Limitations, and Other Requirements

23.5. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall comply with the following:

[18 AAC 50.040(c)(23), (j)(4), & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (a)(3)(i)]

a. You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Condition 23.2 that apply to you according to methods specified in Condition 23.5.a(i) or 23.5.a(ii).

[40 C.F.R. 63.6640(a), Subpart ZZZZ]

(i) Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(ii) Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[Table 6, Item 9, Subpart ZZZZ]

b. You must also report each instance in which you did not meet the requirements in Table 8 to NESHAP Subpart ZZZZ that apply to you.

[40 C.F.R. 63.6640(e), Subpart ZZZZ]

NESHAP Subpart ZZZZ Reporting Requirements

23.6. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall report as follows:

[18 AAC 50.040(c)(23) & (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii)]

a. You must report all deviations as defined in NESHAP Subpart ZZZZ in the semiannual monitoring report required by Condition 57.

[40 C.F.R. 63.6650(f), Subpart ZZZZ]

NESHAP Subpart ZZZZ Recordkeeping Requirements

23.7. For EU IDs 12a, 14 through 16, and 18a, the Permittee shall comply with the following:

[18 AAC 50.040(c)(23), (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(ii)]

a. You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan.

[40 C.F.R. 63.6655(e) & (e)(3), Subpart ZZZZ]

b. Your records must be in a form suitable and readily available for expeditious review according to 40 C.F.R. 63.10(b)(1).

c. As specified in 40 C.F.R. 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

d. You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 C.F.R. 63.10(b)(1).

[40 C.F.R. 63.6660(a) through (c), Subpart ZZZZ]

Boilers Subject to Federal NESHAP Subpart JJJJJJ

24. For EU IDs 19a and 19b, the Permittee shall comply with all applicable requirements of NESHAP Subpart JJJJJJ for existing industrial, commercial, and institutional boilers located at an area source of HAPs.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 63.11193 & 63.11194, Subpart JJJJJJ]

24.1. For EU IDs 19a and 19b, the Permittee must achieve compliance with the work practice or management practice standard of a tune-up no later than March 21, 2014.

[40 C.F.R. 63.11196(a) & (a)(1), Subpart JJJJJJ]

NESHAP Subpart JJJJJJ Work Practice and Management Practice Standards

24.2. For EU IDs 19a and 19b, the Permittee shall comply with the following:

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

a. You must conduct an initial tune-up as specified in Condition 24.4.d, and conduct a tune-up of the boiler every 5 years as specified in Condition 24.5.

[40 C.F.R. 63.11201(b) & Table 2, Item 12, Subpart JJJJJJ]

b. These standards apply at all times the affected boiler is operating.

[40 C.F.R. 63.11201(d), Subpart JJJJJJ]

NESHAP Subpart JJJJJJ General Requirements

24.3. For EU IDs 19a and 19b, the Permittee shall comply with the following:

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

a. At all times, you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the EPA and the Department that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. 63.11205(a), Subpart JJJJJJ]

NESHAP Subpart JJJJJJ Initial Compliance Requirements

24.4. For EU IDs 19a and 19b, the Permittee shall comply with the following:

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)]

a. You must demonstrate initial compliance no later than the compliance date that is specified in Condition 24.1 and according to the applicable provisions in 40 C.F.R. 63.7(a)(2), except as provided in Condition 24.4.c.

[40 C.F.R. 63.11210(c), Subpart JJJJJJ]

b. For affected boilers that switch fuels or make a physical change to the boiler that results in the applicability of a different subcategory within subpart JJJJJJ or the boiler becoming subject to subpart JJJJJJ, you must demonstrate compliance within 180 days of the effective date of the fuel switch or the physical change. Notification of such changes must be submitted according to Condition 24.6.f.

[40 C.F.R. 63.11210(h), Subpart JJJJJJ]

c. For existing affected boilers that have not operated between the effective date of the rule and the compliance date that is specified for your source in Condition 24.1, you must complete the initial performance tune-up, if subject to the tune-up requirements in Condition 24.5, by following the procedures described in Condition 24.5.b no later than 30 days after the re-start of the affected boiler.

[40 C.F.R. 63.11210(j) & (j)(2), Subpart JJJJJJ]

d. You must conduct a performance tune-up according to Condition 24.5.b and you must submit a signed statement in the Notification of Compliance Status report that indicates that you conducted a tune-up of the boiler.

[40 C.F.R. 63.11214(b), Subpart JJJJJJ]

NESHAP Subpart JJJJJJ Continuous Compliance Requirements

24.5. For EU IDs 19a and 19b, the Permittee shall comply with the following:

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (a)(3)(i)]

a. You must conduct a performance tune-up according to Condition 24.5.b and keep records as required in Condition 24.6.c to demonstrate continuous compliance. You must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.

[40 C.F.R. 63.11223(a), Subpart JJJJJJ]

b. You must conduct a tune-up of the boiler every 5 years to demonstrate continuous compliance as specified in Conditions 24.5.b(i) through 24.5.b(vii). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.

[40 C.F.R. 63.11223(b) & (e), Subpart JJJJJJ]

(i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 72 months from the previous inspection).

(ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.

(iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 72 months from the previous inspection).

(iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available.

(v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

(vi) Maintain on-site and submit, if requested by the EPA or Department, a report containing the information in Conditions 24.5.b(vi)(A) through 24.5.b(vi)(C).

[40 C.F.R. 63.11223(b)(1) through (6), Subpart JJJJJJ]

(A) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.

(B) A description of any corrective actions taken as a part of the tune-up of the boiler.

(C) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

[40 C.F.R. 63.11223(b)(6)(i) through (iii), Subpart JJJJJJ]

(vii) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

[40 C.F.R. 63.11223(b)(7), Subpart JJJJJJ]

NESHAP Subpart JJJJJJ Notification, Reporting, and Recordkeeping Requirements

24.6. For EU IDs 19a and 19b, the Permittee shall comply with the following:

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(ii) & (iii)]

a. You must submit the notifications specified in Conditions 24.6.a(i) through 24.6.a(iii) to the EPA and the Department.

[40 C.F.R. 63.11225(a), Subpart JJJJJJ]

(i) You must submit all of the notifications in 40 C.F.R. 63.7(b), 63.8(e) and (f), 63.9(b) through (e), and 63.9(g), and (h) that apply to you by the dates specified in those sections except as specified in Condition 24.6.a(ii) and 24.6.a(iii).

[40 C.F.R. 63.11225(a)(1), Subpart JJJJJJ]

(ii) An Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to the standard.

[40 C.F.R. 63.11225(a)(2), Subpart JJJJJJ]

(iii) You must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in Condition 24.1. You must submit the Notification of Compliance Status in accordance with Condition 24.6.a(iii)(A) and 24.6.a(iii)(D). The Notification of Compliance Status must include the information and certification(s) of compliance in Conditions 24.6.a(iii)(A) through 24.6.a(iii)(D), as applicable, and signed by a responsible official.

[40 C.F.R. 63.11225(a)(4), Subpart JJJJJJ]

(A) You must submit the information required in 40 C.F.R. 63.9(h)(2), except the information listed in 40 C.F.R. 63.9(h)(2)(i)(B), (D), (E), and (F).

[40 C.F.R. 63.11225(a)(4)(i), Subpart JJJJJJ]

(B) ‘‘This facility complies with the requirements in § 63.11214 to conduct an initial tune-up of the boiler.’’

[40 C.F.R. 63.11225(a)(4)(ii), Subpart JJJJJJ]

(C) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: ‘‘No secondary materials that are solid waste were combusted in any affected unit.’’

[40 C.F.R. 63.11225(a)(4)(v), Subpart JJJJJJ]

(D) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA’s Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the EPA at the appropriate address listed in 40 C.F.R. 63.13.

[40 C.F.R. 63.11225(a)(4)(vi), Subpart JJJJJJ]

b. You must prepare, by March 1, and submit to the Department and EPA upon request, a compliance certification report. For boilers that are subject only to a requirement to conduct a 5-year tune-up according to Condition 24.5.a and not subject to emission limits or operating limits, you may prepare only a 5-year compliance report as specified in Condition 24.6.b(i) and 24.6.b(ii).

[40 C.F.R. 63.11225(b), Subpart JJJJJJ]

(i) Company name and address.

[40 C.F.R. 63.11225(b)(1), Subpart JJJJJJ]

(ii) Statement by a responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy, and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of NESHAP Subpart JJJJJJ. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:

[40 C.F.R. 63.11225(b)(2), Subpart JJJJJJ]

(A) ''This facility complies with the requirements in § 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler.''

[40 C.F.R. 63.11225(b)(2)(i), Subpart JJJJJJ]

(B) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: ''No secondary materials that are solid waste were combusted in any affected unit.''

[40 C.F.R. 63.11225(b)(2)(ii), Subpart JJJJJJ]

c. You must maintain the records specified in Conditions 24.6.c(i) through 24.6.c(iv).

[40 C.F.R. 63.11225(c), Subpart JJJJJJ]

(i) As required in 40 C.F.R. 63.10(b)(2)(xiv), you must keep a copy of each notification and report that you submitted to comply with Subpart JJJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.

[40 C.F.R. 63.11225(c)(1), Subpart JJJJJJ]

(ii) You must keep records to document conformance with the work practices, emission reduction measures, and management practices required by Condition 24.4.d and 24.5 as specified in Condition 24.6.c(ii)(A) and 24.6.c(ii)(B).

[40 C.F.R. 63.11225(c)(2), Subpart JJJJJJ]

(A) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

[40 C.F.R. 63.11225(c)(2)(i), Subpart JJJJJJ]

(B) For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 C.F.R. 241.3(b)(1), you must keep a record which documents how the secondary material meets each of the legitimacy criteria under 40 C.F.R. 241.3(d)(1). If you combust a fuel that has been processed from a discarded non-hazardous secondary material pursuant to 40 C.F.R. 241.3(b)(4), you must keep records as to how the operations that produced the fuel satisfies the definition of processing in 40 C.F.R. 241.2 and each of the legitimacy criteria in 40 C.F.R. 241.3(d)(1). If the fuel received a non-waste determination pursuant to the petition process submitted under 40 C.F.R. 241.3(c), you must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust nonhazardous secondary materials as fuel per 40 C.F.R. 241.4, you must keep records documenting that the material is a listed non-waste under 40 C.F.R. 241.4(a).

[40 C.F.R. 63.11225(c)(2)(ii), Subpart JJJJJJ]

(iii) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.

[40 C.F.R. 63.11225(c)(4), Subpart JJJJJJ]

(iv) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Condition 24.3.a, including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

[40 C.F.R. 63.11225(c)(5), Subpart JJJJJJ]

d. Your records must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each recorded action. You must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years.

[40 C.F.R. 63.11225(d), Subpart JJJJJJ]

e. If you intend to commence or recommence combustion of solid waste, you must provide 30 days prior notice of the date upon which you will commence or recommence combustion of solid waste. The notification must identify the items in 40 C.F.R. 63.11225(f)(1) through (4).

[40 C.F.R. 63.11225(f), Subpart JJJJJJ]

f. If you have switched fuels or made a physical change to the boiler and the fuel switch or change resulted in the applicability of a different subcategory within subpart JJJJJJ, in the boiler becoming subject to subpart JJJJJJ, or in the boiler switching out of subpart JJJJJJ due to a change to 100 percent natural gas, or you have taken a permit limit that resulted in you being subject to subpart JJJJJJ, you must provide notice of the date upon which you switched fuels, made the physical change, or took a permit limit within 30 days of the change. The notification must identify the items in 40 C.F.R. 63.11225(g)(1) and (2).

[40 C.F.R. 63.11225(g), Subpart JJJJJJ]

General Federal Requirements

25. Asbestos NESHAP. The Permittee shall comply with the requirements set forth in 40 C.F.R. 61.145, 61.150, and 61.152 of Subpart M, and the applicable sections set forth in 40 C.F.R. 61, Subpart A and Appendix A.

[18 AAC 50.040(b)(1) & (2)(F), & 50.326(j)]
[40 C.F.R. 61, Subparts A & M, and Appendix A]

26. Protection of Stratospheric Ozone, 40 C.F.R. 82

Subpart F – Recycling and Emissions Reduction

26.1. **Refrigerant Recycling and Disposal.** The Permittee shall comply with the standards for recycling and emission reduction of refrigerants set forth in 40 C.F.R. 82, Subpart F.

[18 AAC 50.040(d) & 50.326(j)]
[40 C.F.R. 82, Subpart F]

Subpart G – Significant New Alternatives Policy

26.2. The Permittee shall comply with the applicable prohibitions set out in 40 C.F.R. 82.174 (Protection of Stratospheric Ozone Subpart G – Significant New Alternatives Policy Program).

[18 AAC 50.040(d) & 50.326(j)]
[40 C.F.R. 82.174(b) through (d), Subpart G]

Subpart H – Halon Emissions Reduction

26.3. The Permittee shall comply with the applicable prohibitions set out in 40 C.F.R. 82.270 (Protection of Stratospheric Ozone Subpart H – Halon Emission Reduction).

[18 AAC 50.040(d) & 50.326(j)]
[40 C.F.R. 82.270(b) through (f), Subpart H]

General NSPS and NESHAP Requirements

27. NESHAP Applicability Determinations. The Permittee shall determine rule applicability and designation of affected sources under National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Categories (40 C.F.R. 63) in accordance with the procedures described in 40 C.F.R. 63.1(b) and 63.10(b)(3). If a source becomes affected by an applicable subpart of 40 C.F.R. 63, the Permittee shall comply with such standard by the compliance date established by the Administrator in the applicable subpart, in accordance with 40 C.F.R. 63.6(c).

27.1. After the effective date of any relevant standard promulgated by the Administrator under this part, an owner or operator who constructs a new affected source that is not major-emitting or reconstructs an affected source that is not major-emitting that is subject to such standard, or reconstructs a source such that the source becomes an affected source subject to the standard, must notify the Administrator and the Department of the intended construction or reconstruction. The notification must be submitted in accordance with the procedures in §63.9(b).

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(ii)]
[40 C.F.R. 63.1(b), 63.5(b)(4), 63.6(c)(1), & 63.10(b)(3)]

28. NSPS and NESHAP Reports. The Permittee shall:

28.1. **Reports:** Attach to the operating report required by Condition 57 for the period covered by the report, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and

28.2. **Waivers**: Upon request by the Department, provide a written copy of any EPA-granted alternative monitoring requirement, custom monitoring schedule or waiver of the federal emission standards, recordkeeping, monitoring, performance testing, or reporting requirements. The Permittee shall keep a copy of each U.S. EPA issued monitoring waiver or custom monitoring schedule with the permit.

[18 AAC 50.326(j)(4) & 50.040(j)]
[40 C.F.R. 60.13, 63.10(d) & (f), & 71.6(c)(6)]

Section 5. General Conditions

Standard Terms and Conditions

29. Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.

[18 AAC 50.326(j)(3), 50.345(a) & (e)]

30. The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and re-issuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

[18 AAC 50.326(j)(3), 50.345(a) & (f)]

31. The permit does not convey any property rights of any sort, nor any exclusive privilege.

[18 AAC 50.326(j)(3), 50.345(a) & (g)]

32. **Administration Fees.** The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400-405.

[18 AAC 50.326(j)(1), 50.400, 50.403, & 50.405]
[AS 37.10.052(b), 11/04; AS 46.14.240, 6/7/03]

33. **Assessable Emissions.** The Permittee shall pay to the Department an annual emission fee based on the stationary source's assessable emissions as determined by the Department under 18 AAC 50.410. The assessable emission fee rate is set out in 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities greater than 10 tons per year. The quantity for which fees will be assessed is the lesser of

33.1. the stationary source's assessable potential to emit of 2,128 TPY; or

33.2. the stationary source's projected annual rate of emissions that will occur from July 1 to the following June 30, based upon actual annual emissions emitted during the most recent calendar year or another 12-month period approved in writing by the Department, when demonstrated by

a. an enforceable test method described in 18 AAC 50.220;

b. material balance calculations;

c. emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035; or

d. other methods and calculations approved by the Department.

[18 AAC 50.040(j)(3), 50.035, 50.326(j)(1), 50.346(b)(1), 50.410, & 50.420]
[40 C.F.R. 71.5(c)(3)(ii)]

34. **Assessable Emission Estimates.** Emission fees will be assessed as follows:

34.1. no later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions to ADEC, Air Permits Program, ATTN: Assessable Emissions Estimate, 410 Willoughby Ave., Juneau, AK 99801-1795; the submittal must include all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates; or

34.2. if no estimate is submitted on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit set forth in Condition 33.1.

[18 AAC 50.040(j)(3), 50.326(j)(1), 50.346(b)(1), 50.410, & 50.420]
[40 C.F.R. 71.5(c)(3)(ii)]

35. Good Air Pollution Control Practice. Except as noted in Condition 35.4, the Permittee shall do the following for EU IDs 19a and 19b:

35.1. perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;

35.2. keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and

35.3. keep a copy of either the manufacturer's or the operator's maintenance procedures.

35.4. EU IDs 19a and 19b are subject to this condition only until the applicable compliance date as set forth in Condition 24.1.

[18 AAC 50.030, 50.326(j)(3), & 50.346(b)(5)]

36. Dilution. The Permittee shall not dilute emissions with air to comply with this permit. Monitoring shall consist of an annual certification that the Permittee does not dilute emissions to comply with this permit.

[18 AAC 50.045(a)]

37. Reasonable Precautions to Prevent Fugitive Dust. A person who causes or permits bulk materials to be handled, transported, or stored, or who engages in an industrial activity or construction project shall take reasonable precautions to prevent particulate matter from being emitted into the ambient air.

[18 AAC 50.045(d), 50.040(e), 50. 326(j)(3), & 50.346(c)]

37.1. The Permittee shall keep records of

a. complaints received by the Permittee and complaints received by the Department and conveyed to the Permittee; and

b. any additional precautions that are taken

(i) to address complaints described in Condition 37.1 or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

37.2. The Permittee shall report according to Condition 39.

38. Stack Injection. The Permittee shall not release materials other than process emissions, products of combustion, or materials introduced to control pollutant emissions from a stack at a source constructed or modified after November 1, 1982, except as authorized by a construction permit, Title V permit, or air quality control permit issued before October 1, 2004.

[18 AAC 50.055(g)]

39. Air Pollution Prohibited. No person may permit any emission which is injurious to human health or welfare, animal or plant life, or property, or which would unreasonably interfere with the enjoyment of life or property.

[18 AAC 50.110, 50.040(e), 50.326(j)(3), & 50.346(a)]
[40 C.F.R. 71.6(a)(3)]

39.1. Monitoring, Recordkeeping, and Reporting for Condition 39:

a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 56.

b. As soon as practicable after becoming aware of a complaint that is attributable to emissions from the stationary source, the Permittee shall investigate the complaint to identify emissions that the Permittee believes have caused or are causing a violation of Condition 39.

39.2. The Permittee shall initiate and complete corrective action necessary to eliminate any violation identified by a complaint or investigation as soon as practicable if

a. after an investigation because of a complaint or other reason, the Permittee believes that emissions from the stationary source have caused or are causing a violation of Condition 39; or

b. the Department notifies the Permittee that it has found a violation of Condition 39.

39.3. The Permittee shall keep records of

a. the date, time, and nature of all emissions complaints received;

b. the name of the person or persons that complained, if known;

c. a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 39; and

d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

39.4. With each operating report under Condition 57, the Permittee shall include a brief summary report which must include

a. the number of complaints received;

b. the number of times the Permittee or the Department found corrective action necessary;

c. the number of times action was taken on a complaint within 24 hours; and

d. the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.

39.5. The Permittee shall notify the Department of a complaint that is attributable to emissions from the stationary source within 24 hours after receiving the complaint, unless the Permittee has initiated corrective action within 24 hours of receiving the complaint.

40. Technology-Based Emission Standard. If an unavoidable emergency, malfunction, or non-routine repair, as defined in 18 AAC 50.235(d), causes emissions in excess of a technology-based emission standard[7] listed in Conditions 17 through 20 and 26 (refrigerants), the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 56 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 56.

[18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]
[40 C.F.R. 71.6(c)(6)]

Open Burning Requirements

41. Open Burning. The Permittee shall not conduct open burning at the stationary source.

[18 AAC 50.040(j), & 50.326(j)]
[40 C.F.R. 71.6(a)(3)]

[7] *Technology-based emission standard* means a best available control technology standard (BACT); a lowest achievable emission rate standard (LAER); a maximum achievable control technology standard established under 40 C.F.R. 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

Section 6. General Source Testing and Monitoring Requirements

42. Requested Source Tests. In addition to any source testing explicitly required by the permit, the Permittee shall conduct source testing as requested by the Department to determine compliance with applicable permit requirements.

[18 AAC 50.220(a) & 50.345(a) & (k)]

43. Operating Conditions. Unless otherwise specified by an applicable requirement or test method, the Permittee shall conduct source testing

[18 AAC 50.220(b)]

43.1. at a point or points that characterize the actual discharge into the ambient air; and

43.2. at the maximum rated burning or operating capacity of the emission unit or another rate determined by the Department to characterize the actual discharge into the ambient air.

44. Reference Test Methods. The Permittee shall use the following as reference test methods when conducting source testing for compliance with this permit:

44.1. Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(c) must be conducted in accordance with the source test methods and procedures specified in 40 C.F.R. 63.

[18 AAC 50.040(c) & 50.220(c)(1)(C)]
[40 C.F.R. 63]

44.2. Source testing for the reduction in visibility through the exhaust effluent must be conducted in accordance with the procedures set out in Reference Method 9 and may use the form in Section 11 to record data.

[18 AAC 50.030 & 50.220(c)(1)(D)]

44.3. Source testing for emissions of total particulate matter, sulfur compounds, nitrogen compounds, carbon monoxide, lead, volatile organic compounds, fluorides, sulfuric acid mist, municipal waste combustor organics, metals, and acid gases must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 60, Appendix A.

[18 AAC 50.040(a)(3) & 50.220(c)(1)(E)]
[40 C.F.R. 60, Appendix A]

44.4. Source testing for emissions of PM-10 must be conducted in accordance with the procedures specified in 40 C.F.R. 51, Appendix M, Methods 201 or 201A and 202.

[18 AAC 50.035(b)(2) & 50.220(c)(1)(F)]
[40 C.F.R. 51, Appendix M]

44.5. Source testing for emissions of any pollutant may be determined using an alternative method approved by the Department in accordance with 40 C.F.R. 63 Appendix A, Method 301.

[18 AAC 50.040(c)(24) & 50.220(c)(2)]
[40 C.F.R. 63, Appendix A, Method 301]

45. Excess Air Requirements. To determine compliance with this permit, standard exhaust gas volumes must include only the volume of gases formed from the theoretical combustion of the fuel, plus the excess air volume normal for the specific emission unit type, corrected to standard conditions (dry gas at 68° F and an absolute pressure of 760 millimeters of mercury).

[18 AAC 50.220(c)(3) & 50.990(102)]

46. Test Exemption. The Permittee is not required to comply with Condition 48, 49 and 50 when the exhaust is observed for visible emissions by Method 9 (Condition 1.1.a and 2.1) or the Smoke/No Smoke Plan (Condition 2.2).

[18 AAC 50.345(a)]

47. Test Deadline Extension. The Permittee may request an extension to a source test deadline established by the Department. The Permittee may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.

[18 AAC 50.345(a) & (l)]

48. Test Plans. Except as provided in Condition 46, before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the emission unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 42 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be performed without resubmitting the plan.

[18 AAC 50.345(a) & (m)]

49. Test Notification. Except as provided in Condition 46, at least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and the time the source test will begin.

[18 AAC 50.345(a) & (n)]

50. Test Reports. Except as provided in Condition 46, within 60 days after completing a source test, the Permittee shall submit two copies of the results in the format set out in the Source Test Report Outline, adopted by reference in 18 AAC 50.030. The Permittee shall certify the results in the manner set out in Condition 53. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

[18 AAC 50.345(a) & (o)]

51. Particulate Matter Calculations. In source testing for compliance with the particulate matter standards in Condition 5 and 21.2, the three-hour average is determined using the average of three one-hour test runs. The source testing must account for those emissions caused by soot blowing, grate cleaning, or other routine maintenance activities by ensuring that at least one test run includes the emissions caused by the routine maintenance activity and is conducted under conditions that lead to representative emissions from that activity. The emissions must be quantified using the following equation:

$$E = E_M\left[(A+B)\times\frac{S}{R\times A}\right]+E_{NM}\left[\frac{R-S}{R}-B\times\frac{S}{R\times S}\right]$$

Where:

E = the total PM emissions of the emission unit in grains per dry standard cubic foot ((gr.)/dscf)

E_M = the PM emissions in (gr.)/dscf measured during the test that included the routine maintenance activity

E_{NM} = the arithmetic average of PM emissions in (gr.)/dscf measured during the test runs that did not include the maintenance activity

A = the period of routine maintenance activity occurring during the test run that included routine maintenance activity, expressed to the nearest hundredth of an hour

B = the total period of the test run, less A

R = the maximum period of emission unit operation per 24 hours, expressed to the nearest hundredth of an hour

S = the maximum period of routine maintenance activity per 24 hours, expressed to the nearest hundredth of an hour

[18 AAC 50.220(f)]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

52. Recordkeeping Requirements. The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:

[18 AAC 50.040(a)(1) & 50.326(j)]
[40 C.F.R 60.7(f), Subpart A & 40 C.F.R 71.6(a)(3)(ii)(B)]

52.1. Copies of all reports and certifications submitted pursuant to this section of the permit; and

52.2. Records of all monitoring required by this permit, and information about the monitoring including:

a. the date, place, and time of sampling or measurements;

b. the date(s) analyses were performed;

c. the company or entity that performed the analyses;

d. the analytical techniques or methods used;

e. the results of such analyses; and,

f. the operating conditions as existing at the time of sampling or measurement.

Reporting Requirements

53. Certification. The Permittee shall certify any permit application, report, affirmation, or compliance certification submitted to the Department and required under the permit by including the signature of a responsible official for the permitted stationary source following the statement: *"Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete."* Excess emission reports must be certified either upon submittal or with an operating report required for the same reporting period. All other reports and other documents must be certified upon submittal.

53.1. The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if

a. a certifying authority registered under AS 09.25.510 verifies that the electronic signature is authentic; and

b. the person providing the electronic signature has made an agreement, with the certifying authority described in Condition 53.1.a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.345(a) & (j), 50.205, & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii)(A)]

54. Submittals. Unless otherwise directed by the Department or this permit, the Permittee shall send an original and one copy of reports, compliance certifications, and other submittals required by this permit to ADEC, Air Permits Program, 610 University Ave., Fairbanks, AK 99709-3643, ATTN: Compliance Technician. The Permittee may, upon consultation with the Compliance Technician regarding software compatibility, provide electronic copies of data reports, emission source test reports, or other records under a cover letter certified in accordance with Condition 53.

[18 AAC 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii)(A)]

55. Information Requests. The Permittee shall furnish to the Department, within a reasonable time, any information the Department requests in writing to determine whether cause exists to modify, revoke and reissue, or terminate the permit or to determine compliance with the permit. Upon request, the Permittee shall furnish to the Department copies of records required to be kept by the permit. The Department may require the Permittee to furnish copies of those records directly to the Federal Administrator.

[18 AAC 50.345(a) & (i), 50.200, & 50.326(a) & (j)]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3)]

56. Excess Emissions and Permit Deviation Reports.

56.1. Except as provided in Condition 39, the Permittee shall report all emissions or operations that exceed or deviate from the requirements of this permit as follows:

a. in accordance with 18 AAC 50.240(c), as soon as possible after the event commenced or is discovered, report

(i) emissions that present a potential threat to human health or safety; and

(ii) excess emissions that the Permittee believes to be unavoidable;

b. in accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or non-routine repair that causes emissions in excess of a technology based emission standard;

c. report all other excess emissions and permit deviations

(i) within 30 days of the end of the month in which the excess emissions or deviation occurred, except as provided in Condition 56.1.c(ii) and 56.1.c(iii);

(ii) if a continuous or recurring excess emissions is not corrected within 48 hours of discovery, within 72 hours of discovery unless the Department provides written permission to report under Condition 56.1.c(i); and

(iii) for failure to monitor, as required in other applicable conditions of this permit.

56.2. When reporting excess emissions or permit deviations, the Permittee shall report using either the Department's on-line form, which can be found at http://www.dec.state.ak.us/air/ap/site.htm, or if the Permittee prefers, the form contained in Section 12 of this permit. The Permittee must provide all information called for by the form that is used.

56.3. If requested by the Department, the Permittee shall provide a more detailed written report as requested to follow up an excess emissions report.

[18 AAC 50.235(a)(2), 50.240(c), 50.326(j)(3), & 50.346(b)(2) & (3)]

57. Operating Reports. During the life of this permit[8], the Permittee shall submit to the Department an original and one copy of an operating report by August 1 for the period January 1 to June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.

57.1. The operating report must include all information required to be in operating reports by other conditions of this permit.

57.2. If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 57.1,

a. The Permittee shall identify

(i) the date of the deviation;

(ii) the equipment involved;

(iii) the permit condition affected;

(iv) a description of the excess emissions or permit deviation; and

(v) any corrective action or preventive measures taken and the date of such actions; or

b. When excess emissions or permit deviations have already been reported under Condition 56 the Permittee shall cite the date or dates of those reports.

57.3. The operating report must include a listing of emissions monitored under Condition 2.1.e and 2.2.c which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report.

a. the date of the emissions;

b. the equipment involved;

c. the permit condition affected; and

d. the monitoring result which triggered the additional monitoring.

[8] *Life of this permit* is defined as the permit effective dates, including any periods of reporting obligations that extend beyond the permit effective dates. For example if a permit expires prior to the end of a calendar year, there is still a reporting obligation to provide operating reports for the periods when the permit was in effect.

57.4. **Transition from expired to renewed permit**. For the first period of this renewed operating permit, also provide the previous permit's operating report elements covering that partial period immediately preceding the effective date of this renewed permit.

[18 AAC 50.346(a) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii)(A)]

58. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department an original and one copy of an annual compliance certification report[9].

58.1. Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, as follows:

a. identify each term or condition set forth in Section 3 through Section 9, that is the basis of the certification;

b. briefly describe each method used to determine the compliance status;

c. state whether compliance is intermittent or continuous; and

d. identify each deviation and take it into account in the compliance certification;

58.2. **Transition from expired to renewed permit**. For the first period of this renewed operating permit, also provide the previous permit's annual compliance certification report elements covering that partial period immediately preceding the effective date of this renewed permit.

58.3. In addition, submit a copy of the report directly to the EPA-Region 10, Office of Air Quality, M/S OAQ-107, 1200 Sixth Avenue, Seattle, WA 98101.

[18 AAC 50.205, 50.345(a) & (j), & 50.326(j)]
[40 C.F.R. 71.6(c)(5)]

59. Emission Inventory Reporting. The Permittee shall submit to the Department reports of actual emissions, by emission unit, of CO, NH_3, NO_X, PM_{10}, $PM_{2.5}$, SO_2, VOCs and Lead (Pb) (and lead compounds) using the form in Section 13 of this permit, as follows:

59.1. Each year by March 31, if the stationary source's potential to emit emissions for the previous calendar year:

a. equal or exceed 250 tons per year (TPY) of NH_3, PM_{10}, $PM_{2.5}$ or VOCs; or

b. equal or exceed 2500 TPY of CO, NO_X or SO_2.

59.2. Every third year by March 31 if the stationary source's potential to emit emissions for the previous calendar year exceed:

a. 5 tons per year of lead (Pb), 1000 TPY of CO; or

[9] See Condition 58.2 for clarification on the number of reports required.

b. 100 TPY of SO_2, NH_3, PM_{10}, $PM_{2.5}$, NO_X or VOCs.

59.3. The Permittee shall commence reporting in 2012 for the calendar year of 2011, 2015 for calendar year 2014, etc.

59.4. Include in the report required by this condition, the required data elements contained within the form in Section 13 or those contained in Table 2A of Appendix A to Subpart A of 40 C.F.R. 51 (final rule published in 73 FR 76556 (December 17, 2008)) for each stack associated with an emission unit.

[18 AAC 50.346(b)(8) & 18 AAC 50.200]
[40 C.F.R. 51.15, 51.30(a)(1) & (b)(1) & 40 C.F.R. 51, Appendix A to Subpart A]

Section 8. Permit Changes and Renewal

60. Permit Applications and Submittals. The Permittee shall comply with the following requirements for submitting application information to the EPA Region 10:

60.1. The Permittee shall provide a copy of each application for modification or renewal of this permit, including any compliance plan, or application addenda, at the time the application or addendum is submitted to the Department[10];

60.2. The information shall be submitted to the same address as in Condition 58.3.

60.3. To the extent practicable, the Permittee shall provide to EPA applications in portable document format (PDF); MS Word format (.doc); or other computer-readable format compatible with EPA's national database management system; and

60.4. The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

[18 AAC 50.040(j)(7) & 50.326(b)]
[40 C.F.R. 71.10(d)(1)]

61. Emissions Trading. No permit revision shall be required under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in the permit.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(8)]

62. Off Permit Changes. The Permittee may make changes that are not addressed or prohibited by this permit other than those subject to the requirements of 40 C.F.R. Part 72 through 78 or those that are modifications under any provision of Title I of the Act to be made without a permit revision, provided that the following requirements are met:

62.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;

62.2. Provide contemporaneous written notice to EPA and the Department of each such change, except for changes that qualify as insignificant under 18 AAC 50.326(d) through (i). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change;

62.3. The change shall not qualify for the shield under 40 C.F.R. 71.6(f);

[10] The documents required in Condition 60.1 are submitted to the Department's Anchorage office. The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501.

62.4. The Permittee shall keep a record describing changes made at the stationary source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(12)]

63. Operational Flexibility. The Permittee may make Section 502(b)(10)[11] changes within the permitted stationary source without requiring a permit revision if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions):

63.1. The Permittee shall provide EPA and the Department with a notification no less than 7 days in advance of the proposed change.

63.2. For each such change, the written notification required above shall include a brief description of the change within the permitted stationary source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

63.3. The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 63.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(13)]

64. Permit Renewal. To renew this permit, the Permittee shall submit an application under 18 AAC 50.326 no sooner than [18 months before] and no later than [6 months before the expiration date of this permit]. The renewal application shall be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the stationary source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 C.F.R. 71.7(b) and 71.5(a)(1)(iii).

[18 AAC 50.040(j)(3), 50.326(c)(2) & (j)(2)]
[40 C.F.R. 71.5(a)(1)(iii) & 71.7(b) & (c)(1)(ii)]

[11] As defined in 40 C.F.R. 71.2, *Section 502(b)(10) changes* are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

Section 9. Compliance Requirements

General Compliance Requirements

65. Compliance with permit terms and conditions is considered to be compliance with those requirements that are

65.1. included and specifically identified in the permit; or

65.2. determined in writing in the permit to be inapplicable.

[18 AAC 50.326(j)(3) & 50.345(a) & (b)]

66. The Permittee must comply with each permit term and condition.

66.1. For applicable requirements with which the stationary source is in compliance, the Permittee shall continue to comply with such requirements.

66.2. Noncompliance with a permit term or condition constitutes a violation of AS 46.14.120(c), 18 AAC 50, and, except for those terms or conditions designated in the permit as not federally enforceable, the Clean Air Act, and is grounds for

a. an enforcement action;

b. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or

c. denial of an operating permit renewal application.

[18 AAC 50.040(j), 326(j) & 50.345(a) & (c)]
[40 C.F.R. 71.6(c)(3) & 71.5(c)(8)(iii)(A)]

67. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.

[18 AAC 50.326(j)(3) & 50.345(a) & (d)]

68. The Permittee shall allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator to

68.1. enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;

68.2. have access to and copy any records required by the permit;

68.3. inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and

68.4. sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

[18 AAC 50.326(j)(3) & 50.345(a) & (h)]

69. For applicable requirements that will become effective during the permit term, the Permittee shall meet such requirements on a timely basis.

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(c)(3) & 71.5(c)(8)(iii)(B)]

Section 10. Permit As Shield from Inapplicable Requirements

In accordance with AS 46.14.290, and based on information supplied in the permit application, this section of the permit contains the requirements determined by the Department not to be applicable to the stationary source.

70. Nothing in this permit shall alter or affect the following:

70.1. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section; or

70.2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

[18 AAC 50.326(j)]
[40 C.F.R. 71.6(f)(3)(i) & (ii)]

71. Table C identifies the emission units that are not subject to the specified requirements at the time of permit issuance. If any of the requirements listed in Table C becomes applicable during the permit term, the Permittee shall comply with such requirements on a timely basis including, but not limited to, providing appropriate notification to EPA, obtaining a construction permit and/or an operating permit revision.

[18 AAC 50.326(j)]
[40 C.F.R. 71.6(f)(1)(ii)]

Table C - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
12a, 14 - 16, & 18a	Numeric emission standards of 40 C.F.R. 63 Subpart ZZZZ	The Snake River Power Plant is located in a region of Alaska not accessible by the Federal Aid Highway System (FAHS).
19a & 19b	40 C.F.R. 63 Subpart UUUUU	Emission units 19a and 19b are not electric steam generating units (EGUs). They exist only to provide building heat and hot water for the city's water system in the event of a major failure of the power plant.

Section 11. Visible Emissions Forms

VISIBLE EMISSION OBSERVATION FORM

This form is designed to be used in conjunction with EPA Method 9, "Visual Determination of the Opacity of Emissions form Stationary Sources." Temporal changes in emission color, plume water droplet content, background color, sky conditions, observer position, etc. should be noted in the comments section adjacent to each minute of readings. Any information not dealt with elsewhere on the form should be noted under additional information. Following are brief descriptions of the type of information that needs to be entered on the form: for a more detailed discussion of each part of the form, refer to "Instructions for Use of Visible Emission Observation Form."

- Source Name: full company name, parent company or division or subsidiary information, if necessary.
- Address: street (not mailing or home office) address of facility where VE observation is being made.
- Phone (Key Contact): number for appropriate contact.
- Stationary Source ID Number: number from NEDS, agency file, etc.
- Process Equipment, Operating Mode: brief description of process equipment (include type of facility) and operating rate, % capacity, and/or mode (e.g. charging, tapping, shutdown).
- Control Equipment, Operating Mode: specify type of control device(s) and % utilization, control efficiency.
- Describe Emission Point: for identification purposes, stack or emission point appearance, location, and geometry; and whether emissions are confined (have a specifically designed outlet) or unconfined (fugitive).
- Height Above Ground Level: stack or emission point height relative to ground level; can use engineering drawings, Abney level, or clinometer.
- Height Relative to Observer: indicate height of emission point relative to the observation point.
- Distance from Observer: distance to emission point; can use rangefinder or map.
- Direction from Observer: direction plume is traveling from observer.
- Describe Emissions and Color: include physical characteristics, plume behavior (e.g., looping, lacy, condensing, fumigating, secondary particle formation, distance plume visible, etc.), and color of emissions (gray, brown, white, red, black, etc.). Note color changes in comments section.
- Visible Water Vapor Present?: check "yes" if visible water vapor is present.
- If Present, is Plume…: check "attached" if water droplet plume forms prior to exiting stack, and "detached" if water droplet plume forms after exiting stack.
- Point in Plume at Which Opacity was Determined: describe physical location in plume where readings were made (e.g., 1 ft above stack exit or 10 ft. after dissipation of water plume).
- Describe Plume Background: object plume is read against, include texture and atmospheric conditions (e.g., hazy).
- Background Color: sky blue, gray-white, new leaf green, etc.
- Sky Conditions: indicate cloud cover by percentage or by description (clear, scattered, broken, overcast).
- Wind Speed: record wind speed; can use Beaufort wind scale or hand-held anemometer to estimate.
- Wind Direction From: direction from which wind is blowing; can use compass to estimate to eight points.
- Ambient Temperature: in degrees Fahrenheit or Celsius.

  Wet Bulb Temperature: can be measured using a sling psychrometer

  RH Percent: relative humidity measured using a sling psychrometer; use local US Weather Bureau measurements only if nearby.
- Source Layout Sketch: include wind direction, sun position, associated stacks, roads, and other landmarks to fully identify location of emission point and observer position.

  Draw North Arrow: to determine, point line of sight in direction of emission point, place compass beside circle, and draw in arrow parallel to compass needle.

  Sun's Location: point line of sight in direction of emission point, move pen upright along sun location line, mark location of sun when pen's shadow crosses the observer's position.
- Observation Date: date observations conducted.
- Start Time, End Time: beginning and end times of observation period (e.g., 1635 or 4:35 p.m.).
- Data Set: percent opacity to nearest 5%; enter from left to right starting in left column. Use a second (third, etc.) form, if readings continue beyond 30 minutes. Use dash (-) for readings not made; explain in adjacent comments section.

  Comments: note changing observation conditions, plume characteristics, and/or reasons for missed readings.

  Range of Opacity: note highest and lowest opacity number.
- Observer's Name: print in full.

  Observer's Signature, Date: sign and date after performing VE observation.
- Organization: observer's employer.

Certified By, Date: name of "smoke school" certifying observer and date of most recent certification.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR PERMITS PROGRAM - VISIBLE EMISSIONS OBSERVATION FORM

Page No._____

Stationary Source Name		Type of Emission Unit		Observation Date		Start Time			End Time
				Sec / Min	0	15	30	45	Comments
Emission Unit Location				1					
City	State	Zip		2					
Phone # (Key Contact)		Stationary Source ID Number		3					
Process Equipment		Operating Mode		4					
Control Equipment		Operating Mode		5					
Describe Emission Point/Location				6					
Height above ground level	Height relative to observer	Clinometer Reading		7					
Distance From Observer Start / End		Direction From Observer Start / End		8					
Describe Emissions & Color Start / End				9					
Visible Water Vapor Present? If yes, determine approximate distance from the stack exit to where the plume was read: No / Yes				10					
Point in Plume at Which Opacity Was Determined				11					
Describe Plume Background		Background Color Start / End		12					
				13					
Sky Conditions: Start / End				14					
Wind Speed Start / End		Wind Direction From Start / End		15					
Ambient Temperature		Wet Bulb Temp	RH percent	16					
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read; 2 Wind Direction From; 3 Observer Location; 4 Sun Location; 5 North Arrow; 6 Other Stacks				17					
				18					
				19					
				20					
				21					
				22					
				23					
				24					
				25					
				26					
				27					
				28					
				29					
				30					
				Range of Opacity					
				Minimum			Maximum		
I have received a copy of these opacity observations				Print Observer's Name					
Print Name:				Observer's Signature					Date
Signature:									Observer's Affiliation:
Title	Date			Certifying Organization					
				Certified By:				Date	

Data Reduction:

Duration of Observation Period (minutes):	Duration Required by Permit (minutes):
Number of Observations:	Highest Six–Minute Average Opacity (%):
Number of Observations exceeding 20%:	
In compliance with six-minute opacity limit? (Yes or No)	Highest 18-Consecutive –Minute Average Opacity (%)(engines and turbines only)

Average Opacity Summary:

Set Number	Time			Opacity		
	Start	End		Sum	Average	Comments

Section 12. ADEC Notification Form[12]

Snake River Power Plant	AQ0210TVP03
Stationary Source Name	**Air Quality Permit No.**
Nome Joint Utility System	
Company Name	**Date**

When did you discover the Excess Emissions/Permit Deviation?

Date: _____ / _____ / _____ Time: _____ :/ _____

When did the event/deviation occur?

Begin Date: _____ / _____ / _____ Time: _____ : _____ (Use 24-hr clock.)

End Date _____ / _____ / _____ Time: _____ : _____ (Use 24-hr clock.)

What was the duration of the event/deviation? ____ : ____ (hrs:min) or _____ days

(total # of hrs, min, or days, if intermittent then include only the duration of the actual emissions/deviation)

Reason for Notification: (please check only 1 box and go to the corresponding section)

☐ Excess Emissions – Complete Section 1 and Certify

☐ Deviation from Permit Condition – Complete Section 2 and Certify

☐ Deviations from COBC, CO, or Settlement Agreement – Complete Section 2 and Certify

Section 1. Excess Emissions

(a) Was the exceedance: ☐ Intermittent or ☐ Continuous

(b) Cause of Event (Check one that applies):

☐ Start Up/Shut Down ☐ Natural Cause (weather/earthquake/flood)

☐ Control Equipment Failure ☐ Schedule Maintenance/Equipment Adjustment

☐ Bad Fuel/Coal/Gas ☐ Upset Condition ☐ Other _____

(c) Description
Describe briefly, what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance.

(d) Emissions Units Involved:
Identify the emission unit involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

EU ID	EU Name	Permit Condition Exceeded/Limit/Potential Exceedance

[12] Revised as of August 20, 2008.

(e) Type of Incident (please check only one):

☐ Opacity _____ % ☐ Venting _____ gas/scf ☐ Control Equipment Down

☐ Fugitive Emissions ☐ Emission Limit Exceeded ☐ Other _____

☐ Marine Vessel Opacity ☐ Flaring _____

(f) Unavoidable Emissions:

Do you intend to assert that these excess emissions were unavoidable? ☐ Yes ☐ No

Do you intend to assert the affirmative defense of 18 AAC 50.235? ☐ Yes ☐ No

Certify Report (Go to end of form.)

Section 2. Permit Deviations

(a) Permit Deviation Type (check only one box, corresponding with the section in the permit):

☐ Emission Unit-Specific

☐ Failure to Monitor/Report

☐ General Source Test/Monitoring Requirements

☐ Recording/Reporting/Compliance Certification

☐ Standard Conditions Not Included in the Permit

☐ Other Section: _____ (Title of section and section number of your permit).

☐ Generally Applicable Requirements

☐ Reporting/Monitoring for Diesel Engines

☐ Recordkeeping Failure

☐ Insignificant Emission Unit

☐ Stationary Source Wide

(b) Emission Unit Involved:

Identify the emission unit involved in the event, using the same identification number and name as in the permit. List the corresponding permit conditions and the deviation.

EU ID	EU Name	Permit Condition/ Potential Deviation

(c) Description of Potential Deviation:
Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation.

(d) Corrective Actions:
Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence.

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j)*

To Submit this Report:

Fax to: 907-451-2187

Or

Email to: DEC.AQ.Airreports@alaska.gov

If faxed or emailed, the report must be certified within the Operating Report required for the same reporting period per Condition 57.

Or

Mail to: ADEC
Air Permits Program
610 University Avenue
Fairbanks, AK 99709-3643

Or

Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

Submission of information contained in this report can be made electronically at the following website:
https://myalaska.state.ak.us/dec/air/airtoolsweb/

If submitted online, report must be submitted by an authorized E-Signer for the stationary source.

[18 AAC 50.346(b)(3)]

Section 13. Emission Inventory Form

ADEC Reporting Form Emission Inventory Reporting State of Alaska Department of Environmental Conservation Division of Air Quality	Emission Inventory Year- [ ]

Mandatory information is highlighted. Make additional copies as needed.

Inventory start date:	
Inventory end date:	
Inventory Type:	

Facility Information:	
ADEC Stationary Source ID:	
(Stationary Source) Facility Name:	
AFS ID:	
Census Area/ Community:	
Line of Business (NAICS):	
Contact/Owner Name:	
Contact Owner Address:	
Contact/Owner Phone Number:	
Facility Physical Address:	
	Lat: Long:
Mailing Address :	

Emission Unit:	
ID:	
Description:	
Manufacturer:	
Model Number:	
Serial Number:	
Year of Manufacture:	
Maximum Nameplate Capacity:	
Design Capacity (BTU/hr):	

Control Equipment (List All):	
	Control Equipment Type(Primary or Secondary):
	ID:
	Type:
	Manufacturer:
	Model:
	Control Efficiency (%):
	Capture Efficiency (%):
	Total Capture Efficiency (%):
	Pollutants Controlled
	-

Processes (List All):	
	PROCESS:
	SCC Code:
	Material Processed:
	Operational Periods:
	FUEL INFORMATION
	Ash Content (weight %):
	Elem. Sulfur Content (weight %):
	H2S Sulfur Content (ppmv):
	Heat Content (MMBtu/1000 gal or MMBtu/MMscf):
	Heat Input (MMBtu/hr):
	Heat Output (MMBtu/hr):
	THROUGHPUT
	Total Amount:
	Summer %:
	Fall %:
	Winter %:
	Spring %:
	Days/Week of Operation:
	Weeks/Year of Operation:

	Hours/Day of Operation:
	Hours/Year of Operation:

EMISSIONS					
Pollutant	**Emission Factor**	**Emission Factor Numerator**	**Emission Factor Denominator**	**Emission Factor Source**	**Tons Emitted**
CO					
NH3					
NOX					
PM10-PRI					
PM25-PRI					
SO2					
VOC					
Lead and lead compounds					

Stack Description:	
	Stack Detail:
	ID:
	Type:
	Measurement Units:
	Base Elevation:
	Stack Height:
	Stack Diameter:
	Exit Gas Temp:
	Exit Gas Velocity:
	Actual Exit Gas Flow Rate:
	Data Source:
	Description:
	Latitude:
	Longitude:
	Location Description:
	Accuracy (m):

	Datum:

Certification:

Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.

Printed Name:_____Title_____Date _____

Signature:_____ Phone number_____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j)*

To Submit this report:

1. Fax this form to: 907-465-5129; or
2. E-mail to: DEC.AQ.airreports@alaska.gov; or
3. Mail to: ADEC
   Air Permits Program
   410 Willoughby Ave., Suite 303
   PO Box 111800
   Juneau, AK 99801-1800

Or

4. Submission of information can be made via a full electronic batch submittal (XML files). This will require each data element to be tagged with XML (Extensible Markup Language) code before it can be uploaded to ADEC database.
   https://myalaska.state.ak.us/dec/air/airtoolsweb/EiXmlValidator.aspx

[18 AAC 50.346(b)(9)]