

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0202TVP02
Revision 1: PN Date September 24, 2009

Issued: April 7, 2009
Expires: April 7, 2014

The Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **Anchorage Municipal Light & Power**, for the operation of the **Hank Nikkels Plant One**.

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.

Upon effective date of this permit, Air Quality Operating Permit No. AQ0202TVP01 Revision 2 expires. Air Quality Minor Permit No. AQ0202MSS01 remains in effect and has been incorporated into Air Quality Operating Permit No. AQ0202TVP02.

This Operating Permit became effective May 7, 2009.

John F. Kuterbach, Manager
Air Permits Program

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List of Abbreviations Used in this Permit

- AACAlaska Administrative Code
- ADEC.....Alaska Department of Environmental Conservation
- ASAlaska Statutes
- ASTMAmerican 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
- COCarbon Monoxide
- dscf.....Dry standard cubic foot
- EPAUS Environmental Protection Agency
- EUEmission Unit
- gr./dscfgrain per dry standard cubic foot (1 pound = 7000 grains)
- GPH.....gallons per hour
- HAPsHazardous Air Pollutants [*HAPs* as defined in AS 46.14.990(14)]
- IDEmission Unit Identification Number
- kPa.....kiloPascals
- LAERLowest Achievable Emission Rate
- MACTMaximum Achievable Control Technology as defined in 40 C.F.R. 63.
- MR&R.....Monitoring, Recordkeeping, and Reporting
- NESHAPsFederal National Emission Standards for Hazardous Air Pollutants
[*NESHAPs* as contained in 40 C.F.R. 61 and 63]
- NO_x.....Nitrogen Oxides
- NSPSFederal New Source Performance Standards [*NSPS* as contained in
40 C.F.R. 60]
- O & M.....Operation and Maintenance
- O₂Oxygen
- PAL.....Plantwide Applicability Limitation
- PM-10Particulate Matter less than or equal to a nominal ten microns in diameter
- ppmParts per million
- ppmv, ppmvdParts per million by volume on a dry basis
- psiaPounds per Square Inch (absolute)
- PSDPrevention of Significant Deterioration
- PTEPotential to Emit
- SIC.Standard Industrial Classification
- SO₂Sulfur dioxide
- TPH.....Tons per hour
- TPYTons per year
- VOCvolatile organic compound [*VOC* as defined in 40 C.F.R. 51.100(s)]
- VOLvolatile 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

Names and Addresses

Permittee: Anchorage Municipal Light & Power
1200 East First Avenue
Anchorage, Alaska 99501-1685

Stationary Source Name: Hank Nikkels Plant One

Location: 61° 13' 19" North; 149° 51' 59" West

Physical Address: 821 East First Avenue
Anchorage, Alaska 99501-1685

Owner: Anchorage Municipal Light and Power
1200 East First Avenue
Anchorage, Alaska 99501-1685

Operator: Anchorage Municipal Light and Power
1200 East First Avenue
Anchorage, Alaska 99501-1685

Permittee's Responsible Officials James M. Posey, General Manager
(907) 263-5201

Designated Agent: Robert H. Price Jr.
1200 East First Avenue
Anchorage, Alaska 99501-1685
(907) 263-5275

Stationary Source and Building Contact: Eugene Ori
(907) 263-5339

Fee Contact: Yelena Saville, Environmental Engineer
1200 East First Avenue
Anchorage, Alaska 99501-1685
(907) 263-5273

Permit Contact: Yelena Saville, Environmental Engineer
(907) 263-5273

Process Description: SIC Code: 4911 – Electrical Services

[18 AAC 50.040(j)(3), 7/25/08 and 18 AAC 50.326(a), 12/1/04]
[40 C.F.R. 71.5(c)(1 & 2), 7/2/07]

Section 2. Emission Unit Inventory and Description

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

Table A - Emission Units Inventory

EU ID	Emission unit Name	Emission unit Description	Rating/size	Installation Date
1	GTG-1 Gas Turbine Gen.	Westinghouse W-171-G (dual fuel)	14.0 MW	1962
2	GTG-2 Gas Turbine Gen.	Westinghouse W-171-G (dual fuel)	14.0 MW	1964
3A	GTG-3 Gas Turbine Gen.	GE LM2500+	30 MW	8/16/2007
4	GTG-4 Gas Turbine Gen.	Westinghouse W-251-B (dual fuel)	31.1 MW	1972
5	Standby Diesel Generator 1	Cleveland 16-278A Engine	1.2 MW	1956
6	Standby Diesel Generator 2	FM 38D81/8 Engine	1.4 MW	1947
10	Air Preheater for EU ID 3A	Bryan TAS No. H-4GF Heater	4.443 MMBtu/hr	8/16/2007

18 AAC 50.040(j)(3), 7/25/08; 18 AAC 50.326(a), 12/1/04]
[40 C.F.R. 71.5(c)(1 & 2), 7/2/07]

Section 3. State Requirements

Visible Emissions Standards

1. Industrial Process and Fuel-Burning Equipment Visible Emissions. The Permittee shall comply with the following:

1.1 Do not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1 - 6, and 10 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), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

1.2 For EU ID(s) 5 & 6, monitor, record, and report in accordance with Condition 7.

1.3 For EU IDs 3A and 10 burn only gas as fuel. Monitoring for this emission unit shall consist of a certification in each operating report under Condition 61 that the emission unit fired only gas. Report under Condition 60 if any fuel is burned other than gas.

[18 AAC 50.346(c), Standard Permit Condition VIII 10/1/04]

1.4 For EU IDs 1, 2, and 4, use only gas as primary fuel. Monitoring for these emission unit(s) shall consist of a certification in each operating report required in Condition 61 that each of these emission unit(s) fired only gas. If operating on liquid fuel, the Permittee shall monitor, record and report according to Condition 6.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

Visible Emissions Monitoring, Recordkeeping and Reporting

Dual Fuel-fired Emission Units (EU IDs 1, 2, and 4)

2. Visible Emissions Monitoring. When required by Condition 6.2 the Permittee shall observe the exhaust of EU IDs 1, 2 and 4 for visible emissions using 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. If the emission units revert to operating on natural gas, monitoring of VE emissions shall be in accordance with Condition 1.4

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(i), 7/2/07]

2.1 **Method-9 Plan.** For all 18-minute observations in this plan, observe the 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. Monthly Method 9 Observations. Perform 18-minute observations at least once in each calendar month that an emission unit operates.

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

Semi-annual observations must be taken between four and seven months after the previous set of observations.

- c. 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 at least annually.

Annual observations must be taken between 10 and 13 months after the previous observations

- d. 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 source emission unit to at least monthly intervals, until the criteria in Condition 2.1a for semi-annual 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 2.3a,
 - (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 2.2b; or

- (ii) if the actions taken under Condition 2.3a do not eliminate the smoke, or if subsequent smoke is observed under the schedule of Condition 2.3c(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 2.2a.

3. Visible Emissions Recordkeeping. The Permittee shall keep records as follows:

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(ii), 7/2/07]

3.1 If 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, stationary source type, observer's name and affiliation, and the date on the Visible Emissions Field Data Sheet in Section 11;
 - (ii) the time, estimated distance to the emissions location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (load or fuel consumption rate) 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 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;

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 source 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
- g. operating rate (load or fuel consumption rate).

4. Visible Emissions Reporting. The Permittee shall report visible emissions as follows:

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(iii), 7/2/07]

4.1 include in each stationary source operating report under Condition 61

- 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 record keeping required under Conditions 2 and 3 that was not done;

4.2 report under Condition 60:

- a. the results of Method 9 observations that exceed an average 20 percent 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 1 - 6, and 10 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), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

- 5.1 For EU IDs 3A, and 10, burn only gas as fuel. Monitoring for these emission unit(s) shall consist of a certification in each operating report under Condition 61 that each of these emission unit(s) fired only gas. Report under Condition 60 if any fuel is burned other than gas.
- 5.2 For EU IDs 1, 2 and 4 use only gas as primary fuel. Monitoring for these emission unit(s) shall consist of a certification in each operating report required in Condition 61 that each of these emission unit(s) fired only gas. If operating on a back-up liquid fuel, the Permittee shall monitor, record and report according to Condition 6.
- 5.3 For EU IDs 5 and 6. Monitor, record, and report in accordance with Condition 7 .

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j) & 50.346(c), 10/1/04]
[40 C.F.R. 71.6(a)(3), 7/2/07]

VE & PM MR&R for Dual Fuel-Fired Emission Units, EU IDs 1, 2 and 4

- 6.** The Permittee shall monitor, record and report the monthly hours of operation when operating on back-up liquid fuel in the operating report required by Condition 61.
- 6.1 If EU IDs 1, 2, or 4 do not exceed 400 hours of operations per calendar year per emission unit on a back-up liquid fuel, monitoring of compliance for visible emissions and particulate matter is not required. Monitoring shall consist of an annual compliance certification under Condition 62 with Conditions 1.1 and 5.
- 6.2 EU IDs 1, 2, and 4 are subject to the liquid fuel monitoring requirements described in Conditions 2 and 9 if operations exceed 400 hours per calendar year, per emission unit on back-up liquid fuel.
- 6.3 The Permittee must notify the Department and begin monitoring the affected emission unit according to Condition 2 no later than 15 days after the end of a calendar month in which the cumulative hours of operation for the calendar year exceed 400 hours on a back-up liquid fuel.
- 6.4 Report under Condition 60 if the Permittee fails to comply with Condition 6.3.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3) & (c)(6), 7/2/07]

VE & PM MR&R for Standby Diesel Generators, EU IDs 5 and 6

- 7.** Except as provided in Condition 9, for all 18-minute observations in this plan, observe the exhaust for visible emissions, 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.

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- 7.1 **Initial Monitoring Frequency.** The Permittee shall observe the exhaust for 18 minutes to obtain 72 consecutive 15-second opacity observations once per month that the emission unit operates.
- 7.2 **Semi-annual Method 9 Observations.** After observing emissions for three consecutive operating months under Condition 7.1, unless a six-minute average is greater than 15 percent and one or more observations is greater than 20 percent, perform 18-minute observations at least semiannually.
Take semi-annual observations between four and seven months after the previous observation.
- 7.3 **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 source emission unit to at least monthly intervals, in which the emission unit operates, until the criteria in Condition 7.2 for semi-annual monitoring are met.
- 7.4 Delayed VE observations:
- a. If the stationary source does not operate the emission unit(s) during the month the VE observation is due, as required in Condition 7.1, 7.2, and 8, take the VE observation during the next month the emission unit operates.
 - b. If the stationary source operates the emission unit(s) for its intended purpose and the VE observation required in Condition 7.1, 7.2 and 8 is not taken due to either environmental conditions or a certified observer is not available, take the VE observation at the next available opportunity.
 - c. If the stationary source operates the emission unit(s) for maintenance and the VE observation required in Condition 7.1, 7.2 and 8 is not taken due to environmental conditions, take the VE observation at the next available opportunity.
 - d. Document the reason the VE observation was delayed in the operating report as required in Condition 61.
8. EU IDs 5 and 6 are subject to the liquid fuel monitoring requirements described in Condition 9 if operations exceed 500 hours per calendar year, per emission unit on back-up liquid fuel.
[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j) & 50.346(c), 12/1/04]
[40 C.F.R. 71.6(a)(3)(i), 7/2/07]
9. **Particulate Matter Monitoring for Dual-Fired Turbines and Diesel Engines.** The Permittee shall conduct source tests on dual-fired turbines (EU IDs, 1, 2 and 4) if operated on liquid fuel per Condition 6, and diesel engines (EU IDs 5, and 6) per Condition 8 to determine the concentration of particulate matter (PM) in the exhaust of an emission unit in accordance with this condition.
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(i), 7/2/07]

- 9.1 Within six months of exceeding the criteria of Conditions 9.2a or 9.2b, 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 9.2; to show that emissions are below those criteria, observe emissions as described in Condition 9.2 under load conditions comparable to those when the criteria were exceeded.
- 9.2 Conduct the PM test or make repairs according to Condition 9.1 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 unless the Department has waived this requirement in writing.
- 9.3 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.
- 9.4 The automatic PM source test requirement in Conditions 9.1 and 9.2 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.

Sulfur Compound Emission Standards Requirements

- 10. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from ED IDs 1 - 6 and 10 to exceed 500 ppm averaged over three hours.

[18 AAC 50.040(j) & 50.055(c), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

For fuel oil¹, EU IDs 1, 2 and 4 – 6

- 10.1 The Permittee shall do one of the following for each shipment of fuel:
- a. If the fuel grade requires a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount; or
 - b. If the fuel grade does not require a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount and
 - (i) test the fuel for sulfur content; or

¹ *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 7/1/03.

- (ii) obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent.
- 10.2 Fuel testing under Condition 10.1 must follow an appropriate method listed in 18 AAC 50.035(b)-(c) and 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).
- 10.3 If a load of fuel contains greater than 0.75 percent sulfur by weight, the Permittee shall calculate SO₂ emissions in ppm using either Section 12 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a).
- 10.4 The Permittee shall report as follows:
- a. If SO₂ emissions calculated under Condition 10.3 exceed 500 ppm, the Permittee shall report under Condition 60. When reporting under this condition, include the calculation under Section 12
 - b. The Permittee shall include in the report required by Condition 61
 - (i) a list of the fuel grades received at the stationary source during the reporting period;
 - (ii) for any grade with a maximum fuel sulfur greater than 0.5 percent sulfur, the fuel sulfur of each shipment; and
 - (iii) for fuel with a sulfur content greater than 0.75 percent, the calculated SO₂ emissions in ppm.
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

For gas-fired units², EU IDs 1-4, and 10

- 10.5 Monitoring – The Permittee shall **either**
- a. obtain a semi-annual statement from the fuel supplier of the fuel total sulfur level in ppm; **or**
 - b. analyze a representative sample of the fuel semiannually to determine the sulfur content using either ASTM D4084, D5504, D4810, D4913, D6228 or GPA Standard 2377, or a listed method approved in 18 AAC 50.035(b)-(c) and 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).
- 10.6 Recordkeeping - Keep records of the semiannual statement from the fuel supplier or the sulfur content analysis required under Conditions 10.5a or 10.5b.

² A gas-fired unit is taken to mean natural gas as a fuel, and not fuel gas, and has the meaning taken from 40 CFR 60.41b, effective 7/1/03.

10.7 Reporting -

- a. Report as excess emissions, in accordance with Condition 60, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 10.
- b. Include copies of the records required by Condition 10.6 with the stationary source operating report required by Condition 61 for the period covered by the report.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3) & (c)(6), 7/2/07]

Pre-Construction Permit Requirements to avoid PSD Major Classification (EU IDs 3A and 10)

11. NO_x and CO Limits. For the GE LM2500+ turbine Emission Unit 3A:

- 11.1 The Permittee shall limit NO_x emissions to less than 60.9 tons per consecutive 12-month rolling period;
- 11.2 The Permittee shall limit CO emissions to less than 103.2 tons per consecutive 12-month rolling period.
- 11.3 The limits in Conditions 11.1 and 11.2 apply upon startup of GE LM2500+ turbine Emission Unit 3A.
- 11.4 The Permittee shall combust only natural gas in Emission Unit 3A.
- 11.5 The Permittee shall operate Emission Unit 10 only with low NO_x burners consistent with Attachments of the Title I permit application for Permit No. AQ0202MSS01.
 - a. The Permittee will keep records for the operation of Unit 10 demonstrating conformity to the operational requirements as imposed by Condition 11.5.

[Construction Permit No. AQ0202MSS01, Condition 4, July 17, 2006]

12. Continuous NO_x Emissions Monitoring, Recordkeeping, and Reporting for EU ID 3A.

- 12.1 Install, calibrate, certify, and maintain in accordance with Condition 14, and operate as follows, an extractive continuous NO_x and oxygen emission monitoring systems (CEMS) on Emission Unit 3A. Maintain a NO_x and oxygen CEMS sampling probe in the turbine exhaust stack on Emission Unit 3A. Continuously monitor and record 3-hour block average NO_x concentration in parts per million, dry basis, by volume (ppmdv) and oxygen concentration measurements. Calculate average NO_x concentration for each calendar day in ppmdv, and convert to emission rates as set out in Condition 12.4.
- 12.2 Each day of operation, either:
 - a. Continuously monitor the volume of gas fuel burned (scf_{fuel}/day) by Emission Unit 3A; or
 - b. Estimate fuel consumption in scf_{fuel}/day from Emission Unit 3A by operating time and design fuel consumption rate.

- c. Record the volume of gas burned ($\text{scf}_{\text{fuel}}/\text{day}$) on a daily basis.
- 12.3 Determine or provide vendor data documenting the gross calorific value of each fuel burned by Emission Unit 3A ($\text{MMBtu}/\text{scf}_{\text{fuel}}$).
- 12.4 For each calendar day:

- a. Calculate the NO_x concentration in $\text{lb}/\text{scf}_{\text{exhaust gas}}$ as

$$C_d = [\text{NO}_x \text{ concentration in ppmdv}] \times [1.194 \times 10^{-7}]$$

Where:

$$C_d = \text{Concentration of dry NO}_x \text{ in } \text{lb}/\text{scf}_{\text{exhaust gas}}$$

- b. Calculate the daily average NO_x emission rate (E), expressed as lb/MMBtu NO_2 , for the Emission Unit 3A exhaust stack using the methodology set out in 40 CFR 60, Appendix A, Method 20, Part 7.5.1 as follows:

$$E = [C_d F_d 20.9] / [20.9 - \text{O}_2 \text{ dry}] \quad \text{Eqn. 20-6}$$

Where:

$$E = \text{NO}_x \text{ Emission Rate in } \text{lb}/\text{MMBtu}$$

F_d = Fuel Factor of applicable fuel based on a dry basis, $\text{scf}_{\text{exhaust gas}}/\text{MMBtu}$ from Appendix A, Method 19. (The fuel factor is the ratio of the gas volume of the products of combustion to the heat content of the fuel. The dry fuel factor (F_d) includes all components of combustion less water. Use fuel factors for the fuel as provided for in 40 CFR 60, Appendix A, Method 19, Table 19-2 or calculate the fuel F-factor using the procedures listed in 40 CFR 60 Appendix A, Method 19, Part 12.3.2.1, Eqn. 19-13.)

$$\text{O}_2 = \text{Percent Oxygen on a dry basis, \%}$$

- 12.5 For each calendar day, calculate the NO_x emissions (lb) by multiplying the volume of fuel burned for the day ($\text{scf}_{\text{fuel}}/\text{day}$) from Condition 12.2, times the heating value of the fuel ($\text{MMBtu}/\text{scf}_{\text{fuel}}$) from Condition 12.3, times the times the daily-average NO_x emission rate ($\text{lb}_{\text{NO}_x}/\text{MMBtu}$) from Condition 12.4.
- 12.6 By the end of each calendar month, calculate and record the total NO_x emissions, expressed as tons of NO_2 , for Emission Unit 3A for the previous month by summing the daily NO_x emissions from Condition 12.5, and dividing by 2000. Calculate the total NO_x emissions in tons for the previous 12 months.
- 12.7 In the Operating Report described in Condition 61 report the monthly emissions from the exhaust stack of Emission Unit 3A. Report the 12-month total NO_x emissions for each 12 months ending during the reporting period.

[Construction Permit No. AQ0202MSS01, Condition 5, July 17, 2006]

13. Continuous CO Emissions Monitoring, Recordkeeping, and Reporting for EU ID 3A.

- 13.1 Calibrate, certify, and operate as follows, and maintain in accordance with Condition 14, an extractive continuous CO CEMS. Maintain the CO CEMS sampling probe in the turbine exhaust stack on Emission Unit 3A. Continuously

monitor and record 3-hour block average CO concentration in parts per million, dry basis, by volume (ppmdv) and oxygen concentration. Calculate average CO concentration for each calendar day in ppmdv, and convert to emission rates as set out in Condition 13.2.

13.2 For each calendar day,

a. Calculate the CO concentration in $\text{lb}/\text{scf}_{\text{exhaust gas}}$ as

$$C_d = [\text{CO concentration in ppmdv}] \times [7.27 \times 10^{-8}]$$

Where:

$$C_d = \text{Concentration of dry CO in } \text{lb}/\text{scf}_{\text{exhaust gas}}$$

b. Calculate the average CO emission rate (lb/MMBtu) for each calendar day, for the Emission Unit 3A exhaust stack using the methodology set out in 40 CFR 60, Appendix A, Method 20, Part 7.5.1 as follows:

$$E = [C_d F_d 20.9] / [20.9 - O_2 \text{dry}] \quad \text{Eqn. 20-6}$$

Where:

$$E = \text{CO Emission Rate in } \text{lb}_{\text{CO}}/\text{MMBtu}$$

F_d = Fuel Factor of applicable fuel based on a dry basis, $\text{scf}_{\text{exhaust gas}}/\text{MMBtu}$ from Appendix A, Method 19. (Use fuel factors for the fuel as provided for in 40 CFR 60, Appendix A, Method 19, Table 19-2 or calculate the fuel F-factor using the procedures listed in 40 CFR 60 Appendix A, Method 19, Part 12.3.2.1, Eqn. 19-13.)

$$O_2 = \text{Percent Oxygen on a dry basis, \%}$$

13.3 For each day, calculate the CO emissions (lb) by multiplying the volume of fuel burned for the day ($\text{scf}_{\text{fuel}}/\text{day}$) from Condition 12.2, times the heating value of the fuel ($\text{MMBtu}/\text{scf}_{\text{fuel}}$) from Condition 12.3, times the times the daily-average CO emission rate ($\text{lb}_{\text{CO}}/\text{MMBtu}$) from Condition 13.2.

13.4 By the end of each calendar month, calculate and record the total CO emissions (tons) for Emission Unit 3A for the previous month by summing the daily CO emissions from Condition 13.3 and dividing by 2000. Calculate the total CO emissions for the previous 12 months (tons).

13.5 In the Operating Report described in Condition 61, report the monthly emissions from the exhaust stack of Emission Unit 3A. Report the 12-month total CO emissions for each 12 months ending during the reporting period.

[Construction Permit No. AQ0202MSS01, Conditions 6, July 17, 2006]

14. Install; calibrate; conduct applicable continuous emissions monitoring system (CEMS) performance tests listed in 40 CFR 60, Appendix B, and certify test results; operate; and maintain air pollutant emissions controls and process monitoring equipment as described in this permit and in documents provided by the Permittee, listed in Section 6

14.1 For continuous emission monitoring systems comply with each applicable monitoring system requirement as listed in 40 CFR 60.13, 60.19; 40 CFR 60, Appendix F, Quality Assurance Procedures; and the EPA Quality Assurance

Handbook For Air Pollution Measurements, EPA/600 R-94/038b, effective July 1, 1997. The CEMS data assessment reports of 40 CFR 60, Appendix F, shall be prepared for each reporting period of the Operating Report described in Section 9 of Operating Permit No. 202TVP01 (as revised 3/20/03). Attach the assessment to the Operating Report required under Condition 61.

[Construction Permit No. AQ0202MSS01, Conditions 8, July 17, 2006]
[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 10/01/04]
[40 C.F.R. 71.6(a), 7/2/07]

Stationary Source-Wide Specific Requirements

Temporary Turbine Replacement

- 15.** The Permittee may temporarily replace EU ID 3A with a replacement turbine from the factory provided the replacement turbine is a dry low emissions (DLE) LM2500+ unit. During these periods the following apply:
 - 15.1 Emissions of NO_x and CO from the temporary turbine count toward the emission limits of Condition 11.
 - 15.2 Emissions of NO_x from the temporary turbine must be monitored, recorded and reported as required by Condition 12.
 - 15.3 Emissions of CO from the temporary turbine must be monitored, recorded and reported as required by Condition 13.
 - 15.4 The replacement turbine is subject to all permit conditions to which Emission Unit 3A is subject.
 - 15.5 The Permittee shall maintain a log to record the date of any turbine replacement, the manufacturer, model number, and serial number of the turbine replaced, and the manufacturer, model number, and serial number of the replacement turbine. The Permittee has the option to maintain this log electronically. Report in the stationary source operating report required in Condition 61 the information required in this sub-condition.
 - 15.6 The Permittee shall provide contemporaneous written notice to the U.S. EPA and the Department as required in 40 C.F.R. 71.6(a)(12).
 - 15.7 The temporary turbine shall not qualify for any shields granted under 40 C.F.R. 71.7(f).

[18 AAC 50.326(j), 12/01/04]
[40 CFR 71.6(a)(12), 7/2/07]

Insignificant Emission Units

- 16.** For emission units at the stationary source that are insignificant as defined in 18 AAC 50.326(d)-(i) that are not listed in this permit, the following apply:
 - 16.1 The Permittee shall submit the compliance certifications of Condition 62 based on reasonable inquiry;
 - 16.2 The Permittee shall comply with the requirements of Condition 41;

16.3 The Permittee shall report in the operating report required by Condition 61 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;

16.4 No other monitoring, recordkeeping or reporting is required.

[18 AAC 50.346(b)(4), 11/9/08]

17. 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), and [18 AAC 50.055(a)(1), 7/25/08]

18. 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), 7/25/08]

19. The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c), 7/25/08]

Section 4. Federal Requirements

Emission Units Subject to Federal New Source Performance Standards (NSPS), Subpart A

20. NSPS Subpart A Notification. For any affected facility³ or existing facility⁴ regulated under NSPS requirements in 40 C.F.R. 60, the Permittee shall furnish the Department and EPA written or electronic notification of:

[18 AAC 50.035, 11/9/08; and 18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.7(a) 7/1/07 & 60.15(d), Subpart A, 7/01/07]

20.1 the date that construction or reconstruction of an affected facility commences postmarked no later than 30 days after such a date;

[40 C.F.R. 60.7(a)(1), 7/1/07, Subpart A]

20.2 the actual date of initial startup of an affected facility postmarked within 15 days after such date;

[40 C.F.R. 60.7(a)(3), 7/1/07, Subpart A]

20.3 any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies unless that change is specifically exempted under an applicable subpart or in 40 C.F.R. 60.14(e), postmarked as soon as practicable but no more than 60 days before the change commences; and shall include:

- a. information describing the precise nature of the change,
- b. present and proposed emission control systems,
- c. productive capacity of the facility before and after the change, and
- d. the expected completion date of the change;

[40 C.F.R. 60.7(a)(4), 7/1/07, Subpart A]

20.4 the date of a continuous monitoring system performance demonstration, postmarked not less than 30 days prior to such date;

[40 C.F.R. 60.7(a)(5), Subpart A, 7/1/07]

20.5 the anticipated date for conducting the opacity observations required by 40 C.F.R. 60.11(e)(1), including, if appropriate, a request for the Department to provide a visible emissions reader during a performance test, postmarked not less than 30 days prior to such date;

[40 C.F.R. 60.7(a)(6), 7/1/07, Subpart A]

20.6 any proposed replacement of an existing facility, for which the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be

³ *Affected facility* means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 C.F.R. 60.2, effective 7/1/03.

⁴ *Existing facility* means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in this part, and the construction or modification of which was commenced before the date of proposal of that standard; or any apparatus which could be altered in such a way as to be of that type, as defined in 40 C.F.R. 60.2, effective 7/1/07.

required to construct a comparable entirely new facility, postmarked 60 days (as soon as practicable), before commencement of replacement is commenced and must including the following information:

[40 C.F.R. 60.15(d), 7/1/07]

- a. the name and address of owner or operator,
- b. the location of the existing facility,
- c. a brief description of the existing facility and the components that are to be replaced,
- d. a description of the existing and proposed air pollution control equipment,
- e. an estimate of the fixed capital cost of the replacements, and of constructing a comparable entirely new facility,
- f. the estimated life of the existing facility after the replacements, and
- g. a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

21. NSPS Subpart A Startup, Shutdown, & Malfunction Requirements. The Permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of EU ID 3A, any malfunctions of associated air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for EU ID 3A is inoperative.

[18 AAC 50.040(a)(1), 7/25/08]

[40 C.F.R. 60.7(b), Subpart A, 7/1/07]

22. NSPS Subpart A Excess Emissions and Monitoring Systems Performance Report. Except as provided for in Condition 23, the Permittee shall submit to the Department and to EPA a written "excess emissions and monitoring systems performance report" (EEMSP)⁵ any time a limit in Conditions 29 and 30 has been exceeded, as described in this condition. The Permittee shall submit the EEMSP reports to EPA semi-annually, postmarked by the 30th day following the end of each 6-month period. Written reports of excess emissions shall include the following information⁶:

[18 AAC 50.040(a)(1), 7/25/08]

[40 C.F.R. 60.7(c), Subpart A, 7/1/07]

22.1 The magnitude of excess emissions computed in accordance with 40 C.F.R. 60.13(h), any conversion factors used, the date and time of commencement and completion of each time period of excess emissions, and the process operating time during the reporting period.

[40 C.F.R. 60.7(c)(1), Subpart A, 7/1/07]

⁵ The federal EEMSP report is not the same as the State excess emission report required by condition 60.

⁶ *Excess emission* is as defined in 40 C.F.R. 60.4420 for Subpart KKKK affected units.

- 22.2 Identification of each period of excess emissions that occurred during startup, shutdown, and malfunction (if known) of EU ID 3A; the nature and cause of any malfunction, and the corrective action taken or preventative measures adopted.
[40 C.F.R. 60.7(c)(2), Subpart A, 7/1/07
[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.7(c), Subpart A, 7/1/07]
- 22.3 The date and time identifying each period during which a Continuous Monitoring System (CMS) was inoperative except for zero and span checks and the nature of any repairs or adjustments.
[40 C.F.R. 60.7(c)(3), Subpart A, 7/1/07]
- 22.4 A statement indicating whether or not any excess emissions occurred or the CMS was inoperative, repaired, or adjusted, at any time during the reporting period.
[40 C.F.R. 60.7(c)(4), Subpart A, 7/1/07]
- 23. NSPS Subpart A Summary Report Form.** The Permittee shall submit to the Department and to EPA a "summary report form"⁷ in the format shown in Figure 1 of 40 C.F.R. 60.7 (see Attachment A) for each pollutant monitored for EU ID 3A, as follows:
[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.7(d), Subpart A, 7/1/07]
- 23.1 If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent of the total operating time for the reporting period, submit a summary report form instead of the EEMSP report described in Condition 22, otherwise
[40 C.F.R. 60.7(d)(1), Subpart A, 7/1/07]
- 23.2 Submit a summary report form along with the EEMSP described in Condition 22.
[40 C.F.R. 60.7(d)(2), Subpart A, 7/1/07]
- 24. NSPS Subpart A Performance (Source) Tests.** The Permittee shall conduct initial source tests on any affected facility within 60 days after achieving the maximum production rate at which the unit will be operated, but not later than 180 days after initial startup and at such other times as may be required by EPA, and shall provide the Department and EPA with a written report of the results of the source test. The Permittee shall:
[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.8(a), Subpart A, 7/1/07]
- 24.1 Conduct source tests and reduce data as set out in 40 C.F.R. 60.8(b), and provide the Department copies of any EPA waivers or approvals of alternative methods.
[40 C.F.R. 60.8(b), Subpart A, 7/1/07]
- 24.2 Conduct source tests under conditions specified by EPA to be based on representative performance of EU ID 3A.
[40 C.F.R. 60.8(c), Subpart A, 7/1/07]

⁷ See Summary Report form in Figure 1 -- **Summary Report -- Excess Emission and Monitoring System Performance** of the Statement of Basis.

- 24.3 Notify the Department and EPA at least 30 days in advance of the source test.
[40 C.F.R. 60.8(d), Subpart A, 7/1/07]
- 24.4 Provide adequate sampling ports, safe sampling platform(s), safe access to sampling platform(s), and utilities for sampling and testing equipment.
[40 C.F.R. 60.8(e), Subpart A, 7/1/07]
- 25. NSPS Subpart A Good Air Pollution Control Practice.** At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU ID 3A including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The Department will determine whether acceptable operating and maintenance procedures are being used based on information available which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of EU ID 3A.
[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.11(d), Subpart A, 7/1/07]
- 26. NSPS Subpart A Credible Evidence.** For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of the standards set forth in Conditions 11 - 13 nothing in 40 C.F.R. Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information relevant to whether EU ID 3A would have been in compliance with applicable requirements of 40 C.F.R. Part 60 if the appropriate performance or compliance test or procedure had been performed.
[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.11(g), 7/1/07, Subpart A]
- 27. NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission that would otherwise constitute a violation of a standard set forth in Conditions 29 - 30. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.
[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.12, 7/1/07, Subpart A]
- 28. NSPS Subpart A, Monitoring.** For a Continuous Monitoring System (CMS) required under Condition 30, the Permittee shall:
[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.13(a) Subpart A, 7/1/07]
- 28.1 Install and operate the CMS prior to a performance test conducted under Condition 24, including completion of manufacturer's written requirements or recommendations for installation, operation, and calibration of device.
[40 C.F.R. 60.13(b), Subpart A, 7/1/07]

28.2 Check the zero (or low level value between zero and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with 40 C.F.R. 60.13(d).

[40 C.F.R. 60.13(d)(1), Subpart A, 7/1/07]

28.3 Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under Condition 28.2, keep all CMS's in operation continuously and as follows:

[40 C.F.R. 60.13(e), Subpart A, 7/1/07]

- a. complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

[40 C.F.R. 60.13(e)(2), Subpart A, 7/1/07]

28.4 Reduce data in accordance with:

[40 C.F.R. 60.13(h), Subpart A, 7/1/07]

- a. 1-hour averages shall be computed as follows, except that the provisions pertaining to the validation of partial operating hours are only applicable for affected facilities that are required by the applicable subpart to include partial hours in the emission calculations
 - (i) Except as provided under Condition 28.4a(iii) of this section, for a full operating hour (any clock hour with 60 minutes of unit operation), at least four valid data points are required to calculate the hourly average, i.e., one data point in each of the 15-minute quadrants of the hour.
 - (ii) Except as provided under Condition 28.4a(iii) of this section, for a partial operating hour (any clock hour with less than 60 minutes of unit operation), at least one valid data point in each 15-minute quadrant of the hour in which the unit operates is required to calculate the hourly average.
 - (iii) For any operating hour in which required maintenance or quality-assurance activities are performed:
 - (A) If the unit operates in two or more quadrants of the hour, a minimum of two valid data points, separated by at least 15 minutes, is required to calculate the hourly average; or
 - (B) If the unit operates in only one quadrant of the hour, at least one valid data point is required to calculate the hourly average.
 - (iv) If a daily calibration error check is failed during any operating hour, all data for that hour shall be invalidated, unless a subsequent calibration error test is passed in the same hour and the requirements of Condition 28.4a(iii) of this section are met, based solely on valid data recorded after the successful calibration.
 - (v) For each full or partial operating hour, all valid data points shall be used to calculate the hourly average.

- (vi) Except as provided under Condition 28.4a(vii) of this section, data recorded during periods of continuous monitoring system breakdown, repair, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph.
 - (vii) Owners and operators complying with the requirements of 40 C.F.R. 60.7(f)(1) or (2) must include any data recorded during periods of monitor breakdown or malfunction in the data averages.
 - (viii) When specified in an applicable subpart, hourly averages for certain partial operating hours shall not be computed or included in the emission averages (e.g. hours with < 30 minutes of unit operation under 40 C.F.R. 60.47b(d)).
 - (ix) Either arithmetic or integrated averaging of all data may be used to calculate the hourly averages. The data may be recorded in reduced or non reduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant).
[40 C.F.R. 60.13(h)(2), Subpart A, 7/1/07]
- b. Convert all excess emission into units of the standard used in Condition 29 after conversion the Permittee may round data to the same number of significant digits as used in the condition.
[40 C.F.R. 60.13(h)(3), Subpart A, 7/1/07]

Turbines Subject to NSPS Subpart KKKK, EU ID 3A

29. NSPS Subpart KKKK NO_x Standard. The Permittee shall meet the NO_x emission limits of:

- a. 25 ppm at 15 percent O₂ or 150 ng/J of useful output (1.2 lb/MWh), or
- b. 150 ppm at 15 percent O₂ or 1,100 ng/J of useful output (8.7 lb/MWh) when operating at less than 75 percent of peak load, or operating at ambient temperatures less than 0 °F.

[18 AAC 50.040(j)(4), 7/25/08; 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07; 40 C.F.R. 60.4320(a) & Table 1, Subpart KKKK, 7/1/07]

29.1 NO_x Demonstration

- a. To demonstrate continuous compliance for NO_x if a water or steam injection system is not used, the Permittee may install, calibrate, maintain and operate a continuous emission monitoring system:
- b. Install, certify, maintain, and operate a continuous emission monitoring system (CEMS) consisting of a NO_x monitor and a diluent gas (oxygen (O₂) or carbon dioxide (CO₂)) monitor, to determine the hourly NO_x emission rate in parts per million (ppm) or pounds per million British thermal units (lb/MMBtu);
- c. Each NO_x diluent CEMS must be installed and certified according to Performance Specification 2 (PS 2) in appendix B to 40 C.F.R. 60 Subpart KKKK, except the 7-day calibration drift is based on unit operating days, not calendar days. With state approval, Procedure 1 in appendix F to 40 C.F.R. 60

Subpart KKKK is not required. Alternatively, a NO_x diluent CEMS that is installed and certified according to appendix A of part 75 of 40 C.F.R. 60 Subpart KKKK is acceptable for use under this subpart. The relative accuracy test audit (RATA) of the CEMS shall be performed on a lb/MMBtu basis.

- d. During each full unit operating hour, both the NO_x monitor and the diluent monitor must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each 15-minute quadrant of the hour, to validate the hour. For partial unit operating hours, at least one valid data point must be obtained with each monitor for each quadrant of the hour in which the unit operates. For unit operating hours in which required quality assurance and maintenance activities are performed on the CEMS, a minimum of two valid data points (one in each of two quadrants) are required for each monitor to validate the NO_x emission rate for the hour.
- e. Each fuel flow meter shall be installed, calibrated, maintained, and operated according to the manufacturer's instructions.
- f. The owner or operator shall develop and keep on-site a quality assurance (QA) plan.

[40 C.F.R. 60.4335(b)(1), 60.4340(b)(1), 60.4345 (a),(b), (c) and (e) 7/1/07]

29.2 Continuous emission monitoring to identify excess emissions:

- a. All CEMS data shall be reduced to hourly averages as specified in 40 C.F.R. 60.13(h).
- b. For each unit operating hour in which a valid hourly average, as described in §60.4345(b), is obtained for both NO_x and diluent monitors, the data acquisition and handling system must calculate and record the hourly NO_x emission rate in units of ppm or lb/MMBtu, using the appropriate equation from method 19 in appendix A of Subpart KKKK. For any hour in which the hourly average O₂ concentration exceeds 19.0 percent O₂ (or the hourly average CO₂ concentration is less than 1.0 percent CO₂), a diluent cap value of 19.0 percent O₂ or 1.0 percent CO₂(as applicable) may be used in the emission calculations.
- c. Correction of measured NO_x concentrations to 15 percent O₂ is not allowed.
- d. Calculate the hourly average NO_x emission rates, in units of the emission standards under §60.4320, using either ppm for units complying with the concentration limit or the following equation for units complying with the output based standard:

(1) For simple-cycle operation:

$$E = \frac{(NO_x)_b * (HI)_b}{P} \quad (\text{Eq. 1})$$

Where:

E = hourly NO_x emission rate, in lb/MWh,

$(\text{NO}_x)_h$ = hourly NO_x emission rate, in lb/MMBtu,

$(\text{HI})_h$ = hourly heat input rate to the unit, in MMBtu/h, measured using the fuel flowmeter(s), *e.g.*, calculated using Equation D-15a in appendix D to part 75 of this chapter, and

P = gross energy output of the combustion turbine in MW.

- e. For simple cycle units without heat recovery, use the calculated hourly average emission rates from Condition 29.2d of this section to assess excess emissions on a 4-hour rolling average basis, as described in §60.4380(b)(1).

[40 C.F.R. 60.4350 (a)(b)(c), (f)(1), and (g), 7/1/07]

29.3 Reporting Requirements:

- a. All reports required under §60.7(c) must be postmarked by the 30th day following the end of each 6-month period.
- b. For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

[40 C.F.R. 60.4375(a) and 60.4395, 7/1/07]

29.4 Excess Emissions and Monitor of Downtime for NO_x :

- a. For turbines using continuous emission monitoring:
- (i) An excess emissions is any unit operating period in which the 4-hour or 30-day rolling average NO_x emission rate exceeds the applicable emission limit in §60.4320. Calculate the rolling average if a valid NO_x emission rate is obtained for at least 3 of the 4 hours. For the purposes of this subpart, a “30-day rolling average NO_x emission rate” is the arithmetic average of all hourly NO_x emission data in ppm or ng/J (lb/MWh) measured by the continuous emission monitoring equipment for a given day and the twenty-nine unit operating days immediately preceding that unit operating day. A new 30-day average is calculated each unit operating day as the average of all hourly NO_x emissions rates for the preceding 30 unit operating days if a valid NO_x emission rate is obtained for at least 75 percent of all operating hours.
- (ii) A period of monitor downtime is any unit operating hour in which the data for any of the following parameters are either missing or invalid: NO_x concentration, CO_2 or O_2 concentration, fuel flow rate, steam flow rate, steam temperature, steam pressure, or megawatts. The steam flow rate, steam temperature, and steam pressure are only required if you will use this information for compliance purposes.

- (iii) For operating periods during which multiple emissions standards apply, the applicable standard is the average of the applicable standards during each hour. For hours with multiple emissions standards, the applicable limit for that hour is determined based on the condition that corresponded to the highest emissions standard.

[40 C.F.R. 60.4380(b)(1-3), 7/1/07]

29.5 Initial performance test if Permittee has chosen to install a NO_x-diluent CEMS.

- a. The initial performance test may be performed in the following alternative manner:
 - (i) Perform a minimum of nine RATA reference method runs, with a minimum time per run of 21 minutes, at a single load level, within plus or minus 25 percent of 100 percent of peak load. The ambient temperature must be greater than 0 °F during the RATA runs.
 - (ii) For each RATA run, concurrently measure the heat input to the unit using a fuel flow meter (or flow meters) and measure the electrical and thermal output from the unit.
 - (iii) Use the test data both to demonstrate compliance with the applicable NO_x emission limit and to provide the required reference method data for the RATA of the CEMS.
 - (iv) Compliance with the applicable emission limit in §60.4320 is achieved if the arithmetic average of all of the NO_x emission rates for the RATA runs, expressed in units of ppm or lb/MWh, does not exceed the emission limit.

[40 C.F.R. 60.4405, 7/1/07]

29.6 Subsequent Performance Test for NO_x:

- a. Subsequent NO_x performance tests shall be conducted on an annual basis (no more than 14 calendar months following the previous performance test) in accordance with 40 C.F.R. 60.4400.

[40 C.F.R. 60.4400(a), 7/1/07]

30. NSPS Subpart KKKK for Sulfur EU ID 3A

30.1 Sulfur Requirements for gas or liquid fuel

- a. The Permittee must not cause to be discharged into the atmosphere any gases which contain SO₂ in excess of 110 nanograms per Joule (ng/J) (0.90 pounds per megawatt-hour (lb/MWh)) gross output, or
- b. not burn any fuel which contains total potential sulfur emissions in excess of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. [40 C.F.R. 60.4330(a), 7/1/07]

30.2 Sulfur Monitoring Exemption

- a. The Permittee must provide a demonstration that fuel combusted in the turbine does not exceed potential sulfur emissions of 26 ng SO₂/J (0.060 lb

SO₂/MMBtu) heat input. The Permittee can use one of the following sources of information to make the required demonstration:

- (i) The fuel quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the fuel, specifying that the maximum total sulfur content for oil use is 0.05 weight percent (500 ppmw) or less, the total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet, has potential sulfur emissions of less than less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input.
- (ii) Representative fuel sampling data which show that the sulfur content of the fuel does not exceed 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D in part 75 of 40 C.F.R. 60.

[40 C.F.R. 60.4365(a)(b), 7/1/07]

30.3 Sulfur Monitoring

- a. **Fuel oil:** Use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to part 75 of 40 C.F.R. 60 (i.e., flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank).
- b. **Gaseous fuel:** If the Permittee elects not to demonstrate sulfur content using options in Condition 30.2, and the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel must be determined and recorded once per unit operating day.
- c. **Custom Schedules:** The Permittee can elect a custom schedule for determination of the total sulfur content of gases as allowed under 40 C.F.R. 60.4370(c). The Permittee must notify the Department of selection of this option prior to commencement of monitoring.

30.4 Reporting Requirements:

- a. All reports required under §60.7(c) must be postmarked by the 30th day following the end of each 6-month period.
- b. For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

[40 C.F.R. 60.4395(a)(b), 7/1/07]

Section 5. General Conditions

Standard Terms and Conditions

- 31.** 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), 12/1/04 and 18 AAC 50.345(a) & (e), 11/9/08]

- 32.** 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), 12/1/04 and 18 AAC 50.345(a) & (f), 11/9/08]

- 33.** The permit does not convey any property rights of any sort, nor any exclusive privilege.

[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (g), 11/9/08]

- 34. Administration Fees.** The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.40 0-405.

[18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.400, 7/25/2008; 18 AAC 50.403, 12/3/05 and 18 AAC 50.405, 1/29/05]
[AS 37.10.052(b), 11/04 and AS 46.14.240, 6/7/03]

- 35. 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(b). 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

35.1 the stationary source's assessable potential to emit of 6,585.8 TPY; or

35.2 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) 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.035 and 18 AAC 50.346(b)(1), 11/9/08;
18 AAC 50.410, 6/18/09; and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]
[Construction Permit AQ0202MSS01 Condition 7, 07/17/06]

36. Assessable Emission Estimates. Emission fees will be assessed as follows:

36.1 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

36.2 if no estimate is received 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 35.1.

[18 AAC 50.040(j)(3), 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18AAC 50.346(b)(1), 11/9/08,
18 AAC 50.410, 6/18/09; and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

37. Good Air Pollution Control Practice. The Permittee shall do the following for EU ID 1, 2, 4, 5, and 6:

- a. perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;
- b. keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and
- c. keep a copy of either the manufacturer's or the operator's maintenance procedures.

[18 AAC 50.030, 7/25/08; 18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.346(b)(5), 11/9/08]

38. 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), 10/1/04]

39. 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), 10/1/04; 18 AAC 50.040(e), 7/25/08; 18 AAC 50. 326(j)(3), 12/1/04]
[18 AAC 50.346(c), 11/9/08]

39.1 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 39.1 or to address the results of Department inspections that found potential problems; and
 - (ii) to prevent future dust problems.

39.2 The Permittee shall report according to Condition 41.

- 40. 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), 7/25/08]

- 41. 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, 5/26/72; 18 AAC 50.040(e), 7/25/08; 18 AAC 50.326(j)(3), 12/1/04; 18 AAC 50.346(a), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

41.1 Monitoring, Record Keeping, and Reporting for Air Pollution Prohibited

- a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 60.
- 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 41.

41.2 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 41; or
- b. the Department notifies the Permittee that it has found a violation of Condition 41.

41.3 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 41; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

41.4 With each stationary source operating report under Condition 61, 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.

41.5 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.

- 42. 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 standard⁸ listed in Condition 44 (refrigerants), the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 60 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 60.

[18 AAC 50.235(a) & 50.326(j)(4), 10/1/04 and 18 AAC 50.040(j)(4), 7/25/08]
[40 C.F.R. 71.6(c)(6), 7/2/07]

- 43. 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), 7/25/08 and 50.326(j), 12/1/04]
[40 C.F.R. 61, Subparts A & M, and Appendix A, 5/16/07]

- 44. 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), 7/25/08 & 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 82, Subpart F, 7/1/07]

NESHAPs Applicability Determinations

- 45.** 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, 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).

45.1 The Permittee must keep a record of any applicability determination required under 40 C.F.R. 60.10(b)(3) on site for a period of 5 years after the determination or until the source changes its operations to become an affected source, whichever comes first. The record of the applicability determination must be signed by the person making the determination and include an analysis (or other information) that demonstrates why the Permittee believes the source is unaffected. The analysis (or

⁸ *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.

other information) must be sufficiently detailed to allow the Department to make a finding about the source's applicability status with regard to the relevant standard or other requirement.

[18 AAC 50.040(c)(1)(A) & (E) & 50.040(j), 7/25/08, 18 AAC 50.326(j), 12/1/04]

[40 C.F.R. 71.6(a)(3)(ii), 7/2/07]

[40 C.F.R. 63.1(b), 63.6(c)(1), & 63.10(b)(3), 7/16/07]

Open Burning Requirements

46. Open Burning. The Permittee shall not open burn at the stationary source.

Section 6. General Source Testing and Monitoring Requirements

- 47. 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), 10/1/04; 18 AAC 50.345(a) & (k), 11/9/08]

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

18 AAC 50.220(b), 10/1/04]

- 48.1 at a point or points that characterize the actual discharge into the ambient air; and
- 48.2 at the maximum rated burning or operating capacity of the source or another rate determined by the Department to characterize the actual discharge into the ambient air.

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

- 49.1 Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(a) must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 60.

[18 AAC 50.220(c)(1)(A), 10/1/04; 18 AAC 50.040(a), 7/25/08]
[40 C.F.R. 60, 7/1/07]

- 49.2 Source testing for compliance with requirements adopted by reference in 18 AAC 50.040(b) must be conducted in accordance with the methods and procedures specified in 40 C.F.R. 61.

[18 AAC 50.040(b), 7/25/08 & 18 AAC 50.220(c)(1)(B), 10/1/04]
[40 C.F.R. 61, 5/16/07]

- 49.3 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), 7/25/08, 18 AAC 50.220(c)(1)(C), 10/1/04]
[40 C.F.R. 63, 7/16/07]

- 49.4 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, 11/9/08, 18 AAC 50.220(c)(1)(D), 10/1/04]

- 49.5 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), 7/25/08, 18 AAC 50.220(c)(1)(E), 10/1/04]
[40 C.F.R. 60, Appendix A, 7/1/07]

- 49.6 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), 11/9/08; 18 AAC 50.220(c)(1)(F), 10/1/04]
[40 C.F.R. 51, Appendix M, 7/1/07]
- 49.7 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), 7/25/08 & 50.220(c)(2), 10/1/04]
[40 C.F.R. 63, Appendix A, Method 301, 7/16/07]
- 50. 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 source 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), 1/18/97 & 50.990(102), 7/25/08]
- 51. Test Exemption.** The Permittee is not required to comply with Conditions 53, 54 and 55 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.1) or Smoke/No Smoke Plan (Condition 2.2).
[18 AAC 50.345(a), 11/9/08]
- 52. 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), 11/9/08]
- 53. Test Plans.** Except as provided in Condition 51, 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 source 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 47 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 done without resubmitting the plan.
[18 AAC 50.345(a) & (m), 11/9/08]
- 54. Test Notification.** Except as provided in Condition 51, 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), 11/9/08]
- 55. Test Reports.** Except as provided in Condition 51, 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 additionally certify the results in the manner set out in Condition 57. 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), 11/9/08]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

- 56. 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 50.326(j), 12/1/04]
[40 C.F.R 60.7(f), 7/1/07, Subpart A and 71.6(a)(3)(ii)(B), 7/2/07]

- 56.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
- 56.2 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

- 57. Certification.** The Permittee shall certify all reports, compliance certifications, or other documents 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.

- 57.1 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 57.1a, 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), 18 AAC 50.205 & 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 58. 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 57.

[18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

59. 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), 18 AAC 50.200, and 18 AAC 50.326(a) & (j), 10/1/04]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3), 7/2/07]

60. Excess Emissions and Permit Deviation Reports.

60.1 Except as provided in Condition 41, 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 nonroutine 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 emissions or deviation occurs, except as provided in Conditions 60.1c(ii) and 60.1c(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 60.1c(i); and
 - (iii) for failure to monitor, as required in other applicable conditions of this permit.

60.2 When reporting excess emissions or permit deviations, the Permittee must 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 <https://myalaska.state.ak.us/deca/air/airtoolsweb/>, or if the Permittee prefers, the form contained in Section 13 of this permit. The Permittee must provide all information called for by the form that is used.

60.3 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), 10/1/04; 18 AAC 50.326(j)(3), 12/1/04; 18 AAC 50.346(b)(2) & (3), 11/9/08]

- 61. Operating Reports.** During the life of this permit⁹, the Permittee shall submit to the Department one 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.
- 61.1 The operating report must include all information required to be in operating reports by other conditions of this permit. 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 Departmental submission requirements.
- 61.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 61.1, either
- 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 60 the Permittee may cite the date or dates of those reports.
- 61.3 The operating report must include a listing of emissions monitored under Conditions 2.1d, and 2.2c, 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.
- 61.4 Transition from expired to renewed permit. For the first period of this renewed operating permit, also provide the previous permit's facility operating report elements covering that partial period immediately preceding the effective date of this renewed permit.

[18 AAC 50.346(a), 11/9/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

⁹ "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.

62. 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 report¹⁰. The Permittee, at their discretion, may submit one copy in electronic format (PDF or other Department compatible image format).

62.1 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;

62.2 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.

62.3 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, 10/1/04; 18 AAC 50.345(a) & (j), 11/9/08; 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(c)(5), 7/2/07]

63. NSPS and NESHAP Reports. The Permittee shall:

63.1 attach to the facility operating report required by Condition 61, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and

63.2 upon request by the Department, notify and provide a written copy of any EPA-granted alternative monitoring requirement, custom monitoring schedule or waiver of the federal emission standards, record keeping, monitoring, performance testing, or reporting requirements.

[18 AAC 50.326(j)(4), 12/1/04 and 18 AAC 50.040(j), 7/25/08]
[40 CFR 60.13, 7/1/07 and 40 C.F.R. 71.6(c)(6), 7/2/07]

¹⁰ See Condition 62.2 for clarification on the number of reports required.

Section 8. Permit Changes and Renewal

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

64.1 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;

64.2 The information shall be submitted to the same address as in Condition 62.3.

64.3 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

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

[18 AAC 50.040(j)(7), 7/25/08; 18 AAC 50.326(b), 12/1/04]
[40 C.F.R. 71.10(d)(1)), 7/2/07]

65. 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), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(8), 7/2/07]

66. 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 CFR Parts 72 through 78 or those that are modifications under any provision of Title I of the Clean Air Act to be made without a permit revision, provided that the following requirements are met:

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

66.2 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) – (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;

66.3 The change shall not qualify for the shield under 40 CFR 71.6(f);

66.4 The Permittee shall keep a record describing changes made at the 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), 7/25/08; 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(12), 7/2/07]

67. Operational Flexibility. The Permittee may make 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 Clean Air 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):

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

67.2 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.

67.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 67.

[18 AAC 50.040(j)(4), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(13), 7/2/07]

68. Permit Renewal. To renew this permit, the Permittee shall submit an application under 18 AAC 50.326 no sooner than **October 7, 2012** and no later than **October 7, 2013**. **The renewal application shall be complete before the permit expiration date listed on the cover page of this permit.** Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 CFR 71.7(b) and 71.5(a)(1)(iii).

[18 AAC 50.040(j)(3), 7/25/08 and 18 AAC 50.326(c)(2) & (j)(2), 12/1/04]
[40 CFR 71.5(a)(1)(iii) and 71.7(b) & (c)(1)(ii), 7/2/07]

Section 9. Compliance Requirements

General Compliance Requirements

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

69.1 included and specifically identified in the permit; or

69.2 determined in writing in the permit to be inapplicable.

[18 AAC 50.326(j)(3), & 50.345(a) & (b), 11/9/08]

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

70.1 an enforcement action;

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

70.3 denial of an operating permit renewal application.

[18 AAC 50.326(j)(3), 12/1/04; 18 AAC 50.345(a) & (c), 11/9/08]

71. 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), 12/1/04; 18 AAC 50.345(a) & (d), 11/9/08]

72. 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

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

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

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

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

[18 AAC 50.326(j)(3), 12/1/04 ; 18 AAC 50.345(a) & (h), 11/9/08]

Compliance Schedule

73. For applicable requirements with which the Hank Nikkels Plant One is in compliance, the Permittee will continue to comply with such requirements.

[18 AAC 50.040(j), 7/25/08 & 18 AAC 50.326(j), 12/1/04]
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A), 7/2/07]

Section 10. Permit As Shield from Inapplicable Requirements

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

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

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

74.2 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), 12/1/04]
[40 C.F.R. 71.6(f)(3)(i) and (ii), 7/2/07]

75. Table B 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 B 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), 12/1/04]
[40 C.F.R. 71.6(f)(1)(ii), 7/2/07]

Table B - Permit Shields Granted.

EU ID	Non-Applicable Requirements	Reason for non-applicability
7-8	40 C.F.R. 60 Subparts K, Ka	Permittee certified Source IDs 7 - 8 were not installed between May 19, 1978, and July 23, 1984 and are therefore not applicable.
7-8	40 C.F.R 60 Subparts Kb	Permittee certified Emission Unit IDs 7 - 8 are no longer subject to the recordkeeping requirements of Subpart Kb based on EPA's revisions to the rule detailed in 40 C.F.R. 60.110b (b).

Section 11. Visible Emissions Forms

Visible Emissions Field Data Sheet

Certified Observer: _____

Company &
 Stationary
 Source: _____

Location: _____

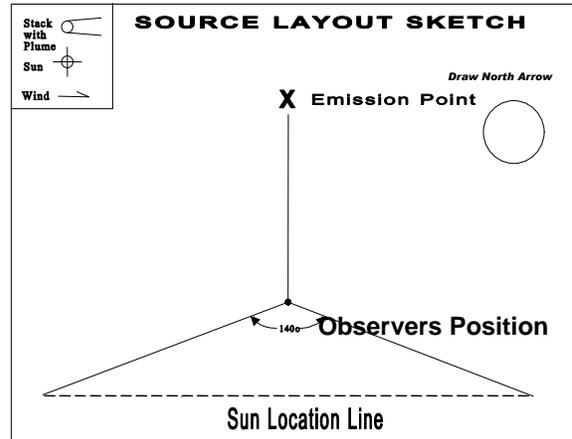
Test No.: _____ Date: _____

Emission Unit: _____

Production Rate/Operating
 Rate: _____

Unit Operating Hours: _____

Hrs. of observation: _____



Clock Time	Initial				Final
Observer location					
Distance to discharge					
Direction from discharge					
Height of observer point					
Background description					
Weather conditions					
Wind Direction					
Wind speed					
Ambient Temperature					
Relative humidity					
Sky conditions: (clear, overcast, % clouds, etc.)					
Plume description:					
Color					
Distance visible					
Water droplet plume? (Attached or detached?)					
Other information					

Section 12. Material Balance Calculation

If the sulfur content of a fuel shipment is greater than 0.75% by weight, calculate the three-hour exhaust concentration of SO₂ using the following equations:

A. = 31,200 x [wt%**S**_{fuel}] = 31,200 x _____ = _____

B. = 0.148 x [wt%**S**_{fuel}] = 0.148 x _____ = _____

C. = 0.396 x [wt%**C**_{fuel}] = 0.396 x _____ = _____

D. = 0.933 x [wt%**H**_{fuel}] = 0.933 x _____ = _____

E. = B + C + D = _____ + _____ + _____ = _____

F. = 21 - [vol%**dry O**_{2, exhaust}] = 21 - _____ = _____

G. = [vol%**dry O**_{2, exhaust}] ÷ F = _____ ÷ _____ = _____

H. = 1 + G = 1 + _____ = _____

I. = E x H = _____ x _____ = _____

SO₂ concentration = A ÷ I = _____ ÷ _____ = _____ ppm

The **wt%**S**_{fuel}**, **wt%**C**_{fuel}**, and **wt%**H**_{fuel}** are equal to the weight percents of sulfur, carbon, and hydrogen in the fuel. These percentages should total 100%.

The fuel weight percent (wt%) of sulfur is obtained pursuant to Condition 10.1. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (**vol%**dry O**_{2, exhaust}**) is obtained from oxygen meters, manufacturer's data, or from the most recent ORSAT analysis at the same engine load used in the calculation.

Enter all of the data in percentages without dividing the percentages by 100. For example, if **wt%**S**_{fuel}** = 1.0%, then enter 1.0 into the equations not 0.01 and if **vol%**dry O**_{2, exhaust}** = 3.00%, then enter 3.00, not 0.03.

[18 AAC 50.346(c), 10/1/04]

Section 13. ADEC Notification Form¹¹

Hank Nikkels Plant One

Stationary Source Name

AQ0202TVP02

Air Quality Permit Number

Anchorage Municipal Light & Power

Company Name

When did you discover the Excess Emissions/Permit Deviation?

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

When did the event/deviation occur?

Begin Date: _____ / _____ / _____ Time: _____ : _____ (please use 24hr clock)

End Date: _____ / _____ / _____ Time: _____ : _____ (please use 24hr 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

Scheduled 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.

Unit ID	Unit Name	Permit condition Exceeded/Limit/Potential Exceedance

(e) Type of Incident (Please Check only one).

¹¹ Revised as of August 24, 2006.

- Opacity _____ %
 Venting _____ (gas/scf)
 Control Equipment Down
 Fugitive Emissions
 Emission Limit Exceeded
 Flaring
 Marine Vessel Opacity
 Other: _____

(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 one only box, corresponding with the section in the permit).

- Source Specific
 Failure to monitor/report
 General Source Test/Monitoring Requirements
 Recordkeeping/Reporting/Compliance Certification
 Standard Conditions Not Included in Permit
 Generally Applicable Requirements
 Reporting/Monitoring for Diesel Engines
 Record Keeping Failure
 Insignificant Source
 Facility Wide
 Other Section _____ (title of section and section number of your permit).

(b) Emission Unit Involved.

Identify the emission unit involved in the event, using the same identification number and name

Unit ID	Unit Name	Permit condition / Potential Deviation

as in the permit. List the corresponding permit conditions and the 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:

1. Fax to: 907-451-2187;

Or

2. Email to: DEC.AQ.Airreports@alaska.gov - *if faxed or emailed,*

Or

;

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

Or

4. Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

5. Submission of information contained in this report can be made electronically at the following website:

<https://myalaska.state.ak.us/deca/air/airtoolsweb/>

if submitted online, report must be submitted by an authorized E-Signer for the Stationary Source.

[18 AAC 50.346(b)(3), 11/9/08]