

**DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**AIR QUALITY OPERATING PERMIT**

Permit No. AQ0272TVP02

Issue Date: **Public Comment Draft - October 22, 2009**

Expiration Date: **Five Years**

The Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **BP Exploration (Alaska) Inc.**, for the operation of the **Lisburne Production Center**.

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.

All stationary source-specific terms and conditions of Operating/Construction Permit No. AQ0272TVP01 Revision 2 and Construction Permit No. 0073-AC061 have been incorporated into this operating permit.

Upon effective date of this operating permit, Operating Permit No. AQ0272TVP01 Revision 2 expires.

This operating permit becomes effective **<insert date—30 days after issue date>**.

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John F. Kuterbach, Manager  
Air Permits Program

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## List of Abbreviations Used in this Permit

AAC .....	Alaska Administrative Code	ppmv, ppmvd .	Parts per million by volume on a dry basis
ADEC.....	Alaska Department of Environmental Conservation	PS.....	Performance Specification
AS .....	Alaska Statutes	psia.....	Pounds per Square Inch (absolute)
ASTM.....	American Society for Testing and Materials	PSD.....	Prevention of Significant Deterioration
BACT .....	Best Available Control Technology	PSI .....	Pounds per Square Inch (pressure)
Bbls .....	U.S. Petroleum Barrels (42 gallons)	PTE.....	Potential to Emit
BHp.....	Boiler Horsepower	RM.....	Reference Method
C.F.R. ....	Code of Federal Regulations	S.....	Sulfur
The Act.....	Clean Air Act	SIC.....	Standard Industrial Classification
CO.....	Carbon Monoxide	SO <sub>2</sub> .....	Sulfur dioxide
dscf.....	Dry standard cubic foot	TPH .....	Tons per hour
EPA.....	US Environmental Protection Agency	TPY .....	Tons per year
EU .....	Emission Unit	VOC.....	Volatile organic compound [VOC as defined in 40 C.F.R. 51.100(s)]
gr/dscf.....	Grain per dry standard cubic foot (1 pound = 7000 grains)	VOL.....	Volatile organic liquid [VOL as defined in 40 C.F.R. 60.111b, Subpart Kb]
GPH.....	Gallons per hour	vol% .....	Volume percent
HAPs .....	Hazardous Air Pollutants [HAPs as defined in AS 46.14.990(14)]	wt% .....	weight percent
Hp.....	Horsepower		
H <sub>2</sub> S .....	Hydrogen Sulfide		
ID .....	Emission Unit Identification Number		
kPa.....	KiloPascals		
kW.....	Kilowatt		
LAER .....	Lowest Achievable Emission Rate		
LHV .....	Lower Heating Value		
MACT .....	Maximum Achievable Control Technology as defined in 40 C.F.R. 63		
MMBtu.....	Million British Thermal Units		
MMscf.....	Million Standard Cubic Feet		
MR&R.....	Monitoring, Recordkeeping, and Reporting		
NESHAPs.....	Federal National Emission Standards for Hazardous Air Pollutants [NESHAPs as contained in 40 C.F.R. 61 and 63]		
NOx.....	Nitrogen Oxides		
NSPS .....	Federal New Source Performance Standards [NSPS as contained in 40 C.F.R. 60]		
O&M .....	Operation and Maintenance		
O <sub>2</sub> .....	Oxygen		
PAL.....	Plantwide Applicability Limitation		
PM-10.....	Particulate Matter less than or equal to a nominal ten microns in diameter		
ppm .....	Parts per million		

## ***Section 1. Stationary Source Information***

### **Identification**

#### **Names and Addresses**

Permittee: **BP Exploration (Alaska) Inc.**  
900 East Benson Blvd. (zip 99508)  
P.O. Box 196612  
Anchorage, AK 99519-6612

Stationary Source Name: **Lisburne Production Center**

Location: Section 19, T11N, R15E, Umiat Meridian

Physical Address: Prudhoe Bay, AK  
UTM Zone 6, 446100 E, 7798300 N

Owners: BP Exploration (Alaska) Inc. ConocoPhillips Alaska Inc.  
900 East Benson Blvd. (zip 99508) 700 G St. (zip 99501)  
P.O. Box 196612 P.O. Box 100360  
Anchorage, AK 99519-6612 Anchorage, AK 99510-0360

Chevron USA Inc. Exxon Mobil Corporation  
P.O. Box 36366 3301 C St., Ste. 400 (zip 99503)  
Houston, TX 77236 P.O. Box 196601  
Anchorage, AK 99519-6601

Operator: BP Exploration (Alaska) Inc.

Permittee's Responsible Official: Mr. Dale Kruger  
Greater Prudhoe Bay Operations Manager  
BP Exploration (Alaska) Inc.

Designated Agent: CT Corporation System  
801 West 10<sup>th</sup> St., Ste. 300  
Juneau, AK 99801

Permit and Fee Contact: Mr. Jim Pfeiffer  
Air Specialist  
BP Exploration (Alaska) Inc.  
[Jim.Pfeiffer@bp.com](mailto:Jim.Pfeiffer@bp.com)  
(907) 564-4549

Stationary Source and Building Contact: Mr. Louis Cusack or Mr. Andrew Burden  
BP Exploration (Alaska) Inc.  
[gpbgpmaotl@bp.com](mailto:gpbgpmaotl@bp.com)  
(907) 659-8641

### **Stationary Source Process Description**

SIC Code of the Stationary Source: 1311 -- Crude Oil and Natural Gas Production

NAICS Code of the Stationary Source: 211111

[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 2. Emission Unit Inventory and Description**

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

**Table A – Emission Unit Inventory**

<b>EU ID</b>	<b>Tag No.</b>	<b>Emission Unit Description</b>	<b>Rating/Size</b>	<b>Commenced Construction, Startup, or Modification/ Reconstruction Date<sup>1</sup></b>
<b>Group I - Gas Turbines</b>				
1	42-1800	EGT (Ruston) TB 5000 STV/IP Compressor	4,900 Hp ISO	5/24/87
2	42-1801	EGT (Ruston) TB 5000 STV/IP Compressor	4,900 Hp ISO	12/18/86
3	42-1826	EGT (Ruston) TB 5000 Refrigeration Turbine	4,900 Hp ISO	1/2/87
4	52-1807	GE MS 5382C Gas Injection Turbine	38,000 Hp ISO	2001
5	52-1808	GE MS 5382C Gas Injection Turbine	38,000 Hp ISO	2001
6	42-0101	Solar Mars Turbine Generator Set	12,000 Hp ISO (8,840 kW ISO)	12/18/86
7	42-0102	Solar Mars Turbine Generator Set	12,000 Hp ISO (8,840 kW ISO)	12/12/86
8	42-0103	Solar Mars Turbine Generator Set	12,000 Hp ISO (8,840 kW ISO)	12/18/86
9	42-0114	Solar Mars Turbine Generator Set	12,000 Hp ISO (8,840 kW ISO)	12/18/86
<b>Group II - Gas Fired Heaters</b>				
10	42-1411	BS&B TEG Reboiler	5.0 MMBtu/hr (heat input, LHV)	12/21/86
11	42-1412	BS&B TEG Reboiler	5.0 MMBtu/hr (heat input, LHV)	12/04/87
12	42-1400	ENTEC Process Heater (Standby Unit)	64.4 MMBtu/hr (heat input, LHV)	12/13/86
13	42-1403	ENTEC Utility Heater (Standby Unit)	36.3 MMBtu/hr (heat input, LHV)	12/19/86
14	42-1404	ENTEC Utility Heater (Standby Unit)	36.3 MMBtu/hr (heat input, LHV)	10/12/86
15	41-1410	BS&B Drill Site Heater (LPC Drill Site 1)	25.5 MMBtu/hr (heat input, LHV)	11/27/86
16	41-1420	BS&B Drill Site Heater (LPC Drill Site 2)	25.5 MMBtu/hr (heat input, LHV)	10/03/86
17	41-1430	BS&B Drill Site Heater (LPC Drill Site 3)	25.5 MMBtu/hr (heat input, LHV)	11/23/86
18	41-1440	BS&B Drill Site Heater (LPC Drill Site 4)	25.5 MMBtu/hr (heat input, LHV)	7/28/88
19	41-1450	BS&B Drill Site Heater (LPC Drill Site 5)	25.5 MMBtu/hr (heat input, LHV)	11/26/86

EU ID	Tag No.	Emission Unit Description	Rating/Size	Commenced Construction, Startup, or Modification/ Reconstruction Date <sup>1</sup>
20	46-1460	BS&B Drill Site Heater (Pt. McIntyre Drill Site 1)	25.5 MMBtu/hr (heat input, LHV)	9/01/93
<b>Group III – Liquid Fuel Fired Equipment</b>				
21	42-104 (LPC-EDE1)	GM EMD 20F4B Emergency Generator	4,000 Hp (2,865 kW)	2/26/85
22	42-1529 (LPC-EDE2)	Caterpillar 3306T Emergency Fire Water Pump	231 Hp	10/15/84
23	42-1589 (LPC-EDE3)	Caterpillar 3306T Emergency Fire Water Pump	231 Hp	10/15/84
24	80-808 (L1-EDE6)	Caterpillar 3406 Emergency Generator Driver (LPC Drill Site 1)	450 Hp (300 kW)	9/84 (Reconstructed 9/05)
25	80-802 (L2-EDE7)	GM Detroit Allison Emergency Generator (LPC Drill Site 2)	382 Hp (250 kW)	12/86
26	80-804 (L3-EDE8)	GM Detroit Allison Emergency Generator (LPC Drill Site 3)	382 Hp (250 kW)	12/86
27	80-806 (L4-EDE9)	GM Detroit Allison Emergency Generator (LPC Drill Site 4)	382 Hp (250 kW)	12/86
28	80-809 (L5-EDE10)	Detroit Diesel Model 12V71 Emergency Generator (LPC Drill Site 5)	402 Hp (300 kW standby; 175 kW continuous)	8/3/03 <sup>3</sup>
29	80-891 (PM1-EDE4)	GM Detroit Allison Emergency Generator (Pt. McIntyre Drill Site 1)	1,377 Hp (995 kW standby; 865 kW continuous)	10/93
30	80-892 (PM2-EDE5)	GM Detroit Allison Emergency Generator (Pt. McIntyre Drill Site 2)	1,377 Hp (865 kW)	6/94
31	80-859 (NIK-EDE11)	GM Detroit Allison Emergency Generator (Niakuk Drill Site 1)	912 Hp (680 kW standby; 579 kW continuous)	4/94
32	80-614	Caterpillar 3304 Emergency Generator (West Dock Staging Area)	200 Hp (150 kW)	2/4/91
<b>Group IV – Flares</b>				
33	42-2802 (LPC-F1)	High Pressure Tertiary Emergency Flare	1.96 MMscf/day (pilot/purge) combined total for all flares	8/7/85
34	42-2803 (LPC-F1)	High Pressure Primary Emergency Flare		8/7/85
35	42-2804 (LPC-F1)	High Pressure Secondary Emergency Flare		8/7/85
36	42-2840 (LPC-F2)	Low Pressure Primary Emergency Flare		8/7/85
37	42-2841 (LPC-F2)	Low Pressure Secondary Emergency Flare		8/7/85
38	42-2842 (LPC-F3)	Liquid Pit Emergency Flare		8/7/85
<b>Group V – Fixed Roof Storage Tanks</b>				
41	42-1900	Slop Oil Tank	11,510 bbls <sup>2</sup>	1985

EU ID	Tag No.	Emission Unit Description	Rating/Size	Commenced Construction, Startup, or Modification/Reconstruction Date <sup>1</sup>
42	42-1920	Slop Oil Divert Tank	11,510 bbls <sup>2</sup>	1995
<b>Group VI – Natural Gas Processing Plant</b>				
43	Modules and Skids <sup>4</sup>	NGL Plant	N/A	After 1/20/84

- Notes: (1) Date construction commenced (if known) or the startup date of the unit. If a unit has been modified or reconstructed as defined by AS 46.14.990, then the most recent modification or reconstruction date is provided.
- (2) U.S. petroleum barrels (42 gallons/bbl).
- (3) Original equipment rated at 1,372 Hp was installed November 1985. Therefore, this unit does not consume NO<sub>2</sub> increment.
- (4) Specific stationary source modules and skids that contain equipment subject to 40 C.F.R. 60 Subpart KKK standards are: 42-4926, NGL Plant; 42-4930, Miscible Injection and MI Compressor Seal Gas System; and 42-4933, Point McIntyre EOR, Depropanizer Propane Chiller (42-1314).
- (5) Tanks, EU IDs 39 and 40, were removed from the emission unit inventory as these units are insignificant.

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

### ***Section 3. State Requirements***

#### **Visible Emissions Standards**

- 1. Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1 – 38 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; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a)(1), 7/2/07]

- 1.1 For EU IDs 1 – 20, burn only gas as fuel. Monitoring for these emission units shall consist of a certification in each operating report under Condition 73 that each of these emission units fired only gas. Report under Condition 72 if any fuel is burned other than gas.
- 1.2 For EU IDs 21, 29, and 30, monitor, record, and report in accordance with Conditions 2 - 4.
- 1.3 For EU IDs 22 – 28, 31, and 32, as long as they do not exceed the limits in Conditions 14 and 15, monitoring shall consist of an annual compliance certification under Condition 74 with the visible emissions standard in accordance with Conditions 24.1 and 24.4.
- 1.4 For EU IDs 33 – 38, monitor, record, and report in accordance with Condition 5.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04; 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**

*For Liquid Fuel-Fired Emission Units (EU IDs 21, 29, and 30)*

- 2. Visible Emissions Monitoring.** The Permittee shall observe the exhaust of EU IDs 21, 29, and 30 for visible emissions using either the Method 9 Plan under Condition 2.1 or the Smoke/No-Smoke Plan under Condition 2.2. The Permittee may change visible-emissions plans for an emission unit at any time unless prohibited from doing so by Condition 2.3. The Permittee may for each unit elect to continue the visible emission monitoring schedule in effect from the previous permit at the time a renewed permit is issued, if applicable.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04; 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 exhaust, following 40 C.F.R. 60, Appendix A-4, Method 9, adopted by reference in 18 AAC 50.040(a), for 18 minutes to obtain 72 consecutive 15-second opacity observations.

- a. First Method 9 Observation. For any unit, observe exhaust for 18 minutes within 14 calendar days after changing from the Smoke/No-Smoke Plan of Condition 2.2. For any units replaced during the term of this permit, observe exhaust for 18 minutes within 30 days of startup.
  - b. Monthly Method 9 Observations. After the first Method 9 observation, perform 18-minute observations at least once in each calendar month that an emission unit operates.
  - c. Semiannual Method 9 Observations. After observing emissions for three consecutive operating months under Condition 2.1b, unless a six-minute average is greater than 15 percent and one or more observations are greater than 20 percent, observe emissions at least semiannually for 18 minutes. Semiannual observations must be taken between four and seven months after the previous set of observations.
  - d. Annual Method 9 Observations. After at least two semiannual 18-minute observations, unless a six-minute average is greater than 15 percent and one or more individual observations are greater than 20 percent, observe emissions at least annually.  
Annual observations must be taken between 10 and 13 months after the previous observations.
  - e. Increased Method 9 Frequency. If a six-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more observations are greater than 20 percent, then increase or maintain the 18-minute observation frequency for that emission unit to at least monthly intervals, until the criteria in Condition 2.1c for semiannual monitoring are met.
- 2.2 **Smoke/No Smoke Plan.** Observe the exhaust for the presence or absence of visible emissions, excluding condensed water vapor.
- a. Initial Monitoring Frequency. Observe the exhaust during each calendar day that an emission unit operates.
  - b. Reduced Monitoring Frequency. After the emission unit has been observed on 30 consecutive operating days, if the emission unit operated without visible smoke in the exhaust for those 30 days, then observe emissions at least once in every calendar month that an emission unit operates.
  - c. Smoke Observed. If smoke is observed, either begin the Method 9 Plan of Condition 2.1 or perform the corrective action required under Condition 2.3.

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

- a. initiate actions to eliminate smoke from the emission unit within 24 hours of the observation;
- b. keep a written record of the starting date, the completion date, and a description of the actions taken to reduce smoke; and
- c. after completing the actions required under Condition 2.3a,
  - (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; 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 2.2

- 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 Record in Section 11, and
  - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period;
- b. to determine the six-minute average opacity, divide the observations recorded on the record sheet into sets of 24 consecutive observations; sets need not be consecutive in time and in no case shall two sets overlap; for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; record the average opacity on the sheet;
  - c. calculate and record the highest 18-consecutive-minute averages observed.
- 3.2 If using the Smoke/No Smoke Plan of Condition 2.2, record the following information in a written log for each observation and submit copies of the recorded information upon request of the Department:
- a. the date and time of the observation;
  - b. from Table A, the ID of the unit observed;
  - c. whether visible emissions are present or absent in the exhaust;
  - d. a description of the background to the exhaust during the observation;
  - e. if the unit starts operation on the day of the observation, the startup time of the 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; 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 73

- 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 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 unit under the Smoke/No Smoke Plan, the number of days that Smoke/No Smoke observations were made and which days, if any, that smoke was observed; and
- d. a summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done;

4.2 Report under Condition 72:

- 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.

*For Flares (EU ID 33 – 38)*

**5. Visible Emissions Monitoring, Recordkeeping, and Reporting.** The Permittee shall observe one daylight flare event<sup>1</sup> within 12 months of the preceding flare event observation. If no event exceeds 1 hour within that 12-month period, then the Permittee shall observe the next daylight flare event.

5.1 Monitor flare events using Method 9.

5.2 Record the following information for observed events:

- a. the flare(s) EU ID number;
- b. results of the Method-9 observations;

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<sup>1</sup> For purposes of this permit, a “flare event” is flaring of gas for greater than one hour as a result of scheduled release operations, i.e. maintenance or well testing activities. It does not include non-scheduled release operations, i.e. process upsets, emergency flaring, or de-minimis venting of gas incidental to normal operations.

- c. reason(s) for flaring;
  - d. date, beginning and ending time of event; and
  - e. volume of gas flared.
- 5.3 Monitoring of a flare event may be postponed for safety or weather reasons, or because a qualified observer is not available. Until the Permittee completes the monitoring on the flare events described in this condition, the Permittee shall either monitor each qualifying flare event, or include in the next operating report required by Condition 73, an explanation of the reason that the event was not monitored. If no events meeting this definition occur during a reporting period then no monitoring is required.
- 5.4 Attach copies of the records required by Condition 5.2 with the stationary source operating report required by Condition 73.
- 5.5 Report under Condition 72 whenever the opacity standard in Condition 1 is exceeded.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j)(4), 12/1/04]  
[40 C.F.R. 60.13, 7/1/07; 40 C.F.R. 71.6(a)(3) & (c)(6), 7/2/07]

## **Particulate Matter Emissions Standards**

- 6. Industrial Process and Fuel-Burning Equipment Particulate Matter.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 1 – 38 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; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a)(1), 7/2/07]

- 6.1 For EU IDs 1 – 20, burn only gas as fuel. Monitoring for these emission units shall consist of a certification in each operating report under Condition 73 that each of these emission units fired only gas. Report under Condition 72 if any fuel is burned other than gas.
- 6.2 For EU IDs 21, 29, and 30, monitor, record, and report in accordance with Conditions 7 - 8.
- 6.3 For EU IDs 22 – 28, 31, and 32, as long as they do not exceed the limits in Conditions 14 and 15, monitoring shall consist of an annual compliance certification under Condition 74 with the particulate matter standard in accordance with Conditions 24.2 and 24.4.
- 6.4 For EU IDs 33 – 38, the Permittee must annually certify compliance under Condition 74 with the particulate matter standard.

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

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## Particulate Matter Monitoring, Recordkeeping and Reporting

*For Liquid Fuel-Fired Engines (EU IDs 21, 29, and 30)*

- 7. Particulate Matter Monitoring for Diesel Engines.** The Permittee shall conduct source tests on diesel engines, EU IDs 21, 29, and 30 to determine the concentration of particulate matter (PM) in the exhaust of the emission unit in accordance with this Condition 7.

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

- 7.1 Within six months of exceeding the criteria of Conditions 7.2a or 7.2b, 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 7.2; to show that emissions are below those criteria, observe emissions as described in Condition 2.1 under load conditions comparable to those when the criteria were exceeded.
- 7.2 Conduct the PM test or make repairs according to Condition 7.1 if
- a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or
  - b. for an emission unit with an exhaust stack diameter that is less than 18 inches, 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity that is greater than 15 percent and not more than 20 percent, unless the Department has waived this requirement in writing.
- 7.3 During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the highest average 6-minute opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.
- 7.4 The automatic PM source test requirement in Conditions 7.1 and 7.2 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.

- 8. Particulate Matter Reporting for Diesel Engines.** The Permittee shall report as follows:

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

- 8.1 Report under Condition 72
- a. the results of any PM source test that exceeds the PM emissions limit; or

- b. if one of the criteria of Condition 7.2 was exceeded and the Permittee did not comply with either Condition 7.1a or 7.1b, this must be reported by the day following the day compliance with Condition 7.1 was required;
- 8.2 Report observations in excess of the threshold of Condition 7.2b within 30 days of the end of the month in which the observations occur;
- 8.3 In each stationary source operating report under Condition 73, include
- a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 7.2;
  - b. a summary of the results of any PM testing under Condition 7; and
  - c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 7.2, if they were not already submitted.

### **Sulfur Compound Emission Standards Requirements**

- 9. Sulfur Compound Emissions.** In accordance with 18 AAC 50.055(c), the Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from EU IDs 1 – 38 to exceed 500 ppm averaged over three hours.

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

#### *For Fuel Gas<sup>2</sup>-Fired Emission Units (EU IDs 1 – 20 and 33 – 38)*

- 9.1 To ensure compliance with Condition 9, the hydrogen sulfide concentration of natural gas burned in EU IDs 1 – 14 and 33 – 38 shall not exceed 168 ppmv, and for EU IDs 15 – 20 shall not exceed 600 ppmv, averaged over three consecutive hours as required by Condition 10<sup>3</sup>.
- 9.2 The Permittee shall either
- a. obtain a monthly statement from the fuel supplier of the fuel gas H<sub>2</sub>S concentration in ppm; or
  - b. analyze a representative sample of the fuel production center and each fuel site heater fuel (DS1-DS5) monthly to determine the sulfur content using either ASTM D4084, D5504, D6228, D4810, D4913, 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).

<sup>2</sup> *Fuel gas* has the meaning taken as natural gas as defined in 40 C.F.R. 60.41b, effective 7/1/07.

<sup>3</sup> Compliance with the gas fuel hydrogen sulfide limit of Condition 10 will assure compliance with the 500-ppm SO<sub>2</sub> emission limit of Condition 9.

- 9.3 Keep records of the monthly statement from the fuel supplier or the sulfur content analysis required under Conditions 9.2a or 9.2b.
- 9.4 The Permittee shall report as follows:
- a. Report as excess emissions, in accordance with Condition 72, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 9.
  - b. Include copies of the records required by Condition 9.3 with the stationary source operating report required by Condition 73.

[Construction Permit No. 0073-AC061, 2/21/01]  
[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a)(3), 7/2/07]

*For North Slope Diesel Fuel (EU IDs 21 – 32)*

- 9.5 To ensure compliance with Condition 9, the Permittee shall comply with the fuel sulfur content limit of 0.15 percent sulfur by weight as required by Condition 11<sup>4</sup>.
- 9.6 For liquid fuel from a North Slope topping plant, the Permittee shall obtain from the topping plant the results of a monthly fuel sulfur analysis.
- a. The Permittee shall include in the report required by Condition 73, a list of the sulfur content measured for each month covered by the report.
  - b. The Permittee shall report under Condition 72 if the sulfur content for any month exceeds 0.75 percent.

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

*For Other Fuel Oil<sup>5</sup> (EU IDs 21 – 32)*

- 9.7 To ensure compliance with Condition 9, the Permittee shall comply with the fuel sulfur content limit of 0.15 percent sulfur by weight as required by Condition 11<sup>6</sup>.
- 9.8 The Permittee shall do one of the following for each shipment of fuel:
- a. If the fuel grade requires a sulfur content less than 0.15 percent by weight, keep receipts that specify fuel grade maximum sulfur content and amount; or

<sup>4</sup> Compliance with the fuel sulfur limit of Condition 11 will assure compliance with the 500-ppm SO<sub>2</sub> emission limit of Condition 9.

<sup>5</sup> *Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 C.F.R. 60.41b, effective 7/1/07.

<sup>6</sup> Compliance with the fuel sulfur limit of Condition 11 will assure compliance with the 500-ppm SO<sub>2</sub> emission limit of Condition 9.

- b. If the fuel grade does not require a sulfur content less than 0.15 percent by weight, keep receipts that specify fuel grade and amount received and
    - (i) test the fuel for sulfur content; or
    - (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.
- 9.9 Fuel testing under Condition 9.8b(i) 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).
- 9.10 The Permittee shall report as follows:
- a. Report in each operating report required by Condition 73, all records obtained under Condition 9.8.
  - b. Report as excess emissions, in accordance with Condition 72, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 9. When reporting under this condition, include the calculated SO<sub>2</sub> emissions in ppm using Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a).

[Construction Permit No. 0073-AC061, 2/21/01]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 18 50.326(j)(4), 12/1/04]  
[40 C.F.R. 71.6(a)(3) & (c)(6), 7/2/07]

## Pre-Construction Permit Requirements

### *Owner Requested Limits to Prevention of Significant Deterioration (PSD) Major Modification and Protect Ambient Air Quality*

- 10. Fuel Gas H<sub>2</sub>S Requirements.** The hydrogen sulfide content of natural gas burned in EU IDs 1 – 14 and 33 – 38 shall not exceed 168 ppmv, and for EU IDs 15 – 20 shall not exceed 600 ppmv, averaged over three consecutive hours.

[Construction Permit No. 0073-AC061, 2/21/01]

- 10.1 Fuel gas H<sub>2</sub>S monitoring shall be conducted as required by Condition 9.2.
- 10.2 Whenever the H<sub>2</sub>S concentration in the fuel gas burned by EU IDs 1 – 14, measured as required by Condition 9.1, exceeds 168 ppmv, the Permittee shall test the gas, as burned, hourly until the concentration of H<sub>2</sub>S falls below 168 ppmv for 24 consecutive hours, at which time the Permittee may return to the monthly monitoring schedule specified by Condition 9.2.
- 10.3 Report in the operating report required by Condition 73:

- a. The concentration of H<sub>2</sub>S (in ppm) measured in the representative fuel gas for each month of the reporting period, and
- b. Any change in the type of fuel and tests or analyses performed.

10.4 Report in accordance with Condition 72 any time the H<sub>2</sub>S concentration in the fuel gas exceeds 168 ppmv for EU IDs 1 – 14 and 33 – 38, or exceeds 600 ppmv for EU IDs 15 – 20.

[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**11. Liquid Fuel Sulfur Requirements.** The sulfur content of fuel oil burned in EU IDs 21 – 32 shall not exceed 0.15 percent by weight at any time.

[Construction Permit No. 0073-AC061, 2/21/01]

11.1 Liquid fuel sulfur monitoring shall be conducted as required by Condition 9.6.

11.2 Report the concentration of sulfur (in weight percent) measured in the representative liquid fuel for each month of the reporting period, and report any change in the type of fuel and tests or analyses performed, with the operating report required by Condition 73.

11.3 Report in accordance with Condition 72 whenever the sulfur content of fuel oil exceeds 0.15 percent by weight.

[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**12. Firing Rate Requirements for EU IDs 10 – 20.** The Permittee shall operate the heaters, EU IDs 10 – 20, at no more than 100% rated capacity.

[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]

12.1 The Permittee shall use the following equation to calculate actual firing rate (% of design capacity):

$$\% \text{ Capacity} = \frac{\text{Fuel}(\text{MMscf} / \text{month}) * \text{LHV}(\text{Btu} / \text{scf}) / \text{HoursofOperation}(\text{hours} / \text{month})}{\text{MaxDesignHeatInputCapacity}(\text{MMBtu} / \text{hr})} * 100$$

Where: Fuel = Total Fuel Usage for unit during period (MMscf/month)

LHV = Fuel Lower Heating Value during period (Btu/scf)

Hours of Operation = Total Operating Hours for period (hours/month)

Max Design Heat Input Capacity = Unit's Maximum Rated Heat Input Capacity (MMBtu/hr)

12.2 Report in the operating report required by Condition 73, the firing rate calculated for each heater according to procedures defined in Condition 12.1 based on design capacity, fuel consumption, fuel heating value, and hours of operation for each month during the reporting period.

12.3 Record and report in accordance with Condition 72, whenever operation of the heaters exceeds the limit in Condition 12.

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

**13. Hour Limits for EU ID 21.** The Permittee shall not operate EU ID 21 greater than 8 hours per day nor greater than 240 hours per rolling 12-month period.

13.1 Monitor and record the daily and rolling 12-month total hours of operation for EU ID 21.

13.2 For each month covered by the report, include the daily and rolling 12-month total hours of operation in the operating report required by Condition 73.

13.3 Notify the Department in accordance with Condition 72 if the hours of operation exceed any of the limits in Condition 12.

[Construction Permit No. 0073-AC061, 2/21/01]  
[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**14. Hourly Limits for EU IDs 22 and 23.** The Permittee shall not operate EU IDs 22 and 23 greater than a combined total of 6 hours per day nor greater than 240 hours each per rolling 12-month period.

14.1 Monitor and record the daily cumulative and rolling 12-month total hours of operation for EU IDs 22 and 23.

14.2 For each month covered by the report, include the combined total for each day and the rolling 12-month individual total hours of operation in the operating report required by Condition 73.

14.3 Notify the Department in accordance with Condition 72 if the hours of operation exceed any of the limits in Condition 14.

[Construction Permit No. 0073-AC061, 2/21/01]  
[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**15. Hourly Limits for EU IDs 24 – 32.** The Permittee shall operate the emergency engines, EU IDs 24 – 32, no more than 140 hours each per rolling 12-month period.

15.1 Monitor and record the cumulative total hours of operation per rolling 12-month period for each of EU IDs 24 – 32.

15.2 For each month covered by the report, include the rolling 12-month total hours of operation for each of EU IDs 24 – 32 in the operating report required by Condition 73.

15.3 Notify the Department in accordance with Condition 72 if the cumulative hours of operation for any of EU IDs 24 – 32 exceed the limit in Condition 15.

[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**16. Stack Orientation Requirements.** EU IDs 1 – 11 and 15 – 32 shall have vertical exhaust outlets with no fixed rain caps.

16.1 Once each calendar year, visually verify that each stack remains equipped with vertical outlets with no fixed raw cap.

16.2 Report in the FOR, as required by Condition 73, the date of the visual verification.

[Construction Permit No. 0073-AC061, 2/21/01]  
[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**17. EU IDs 12 – 14.** The Permittee shall not operate EU IDs 12 – 14 with fixed rain caps.

17.1 Anytime EU IDs 12, 13, and 14 are operated with fixed rain caps, record the date and time, the circumstance that warranted operation of the unit.

17.2 For each month covered by the report, include total hours of operation with fixed rain caps for each of EU IDs 12, 13, and 14 in the operating report required by Condition 73.

17.3 Report in accordance with Condition 72 any time EU IDs 12, 13, or 14 are operated with fixed rain caps and identify the circumstances that required operation of the units.

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

**18. Fuel Consumption Monitoring.** The Permittee shall monitor the monthly fuel consumption for EU IDs 1 – 38 as emission unit group totals. Maintain and operate a monitoring device (e.g. fuel gas meter) to measure the total volume of fuel gas consumed by EU IDs 1 – 9, combined. For EU IDs 10 – 38 (heaters, liquid fuel-fired equipment, and flares) the total volume of fuel consumed by each emission unit group may be estimated.

18.1 Record the monthly fuel consumption for each fuel-fired emission unit group shown in Table A (Groups I through IV).

18.2 Submit copies of the records required by Condition 18.1 with the operating report required by Condition 73. Report the total quantity and type of fuel burned in each emission unit group (Groups I through IV of Table A), and the total quantity of fuel burned at the stationary source, MMscf per month for fuel gas-fired emission units and gallons per month for liquid fuel-fired emission units.

[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**19. Hourly Operations Monitoring.** The Permittee shall monitor, record and report the hours of operation as follows:

[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]

19.1 Monitor and record the monthly operating time for each of EU IDs 1 – 32.

19.2 Report using the operating report under Condition 73, the data recorded under Condition 19.1 for each month of the reporting period.

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

**20. Nitrogen Oxides Limits.** The Permittee shall avoid classification as a Prevention of Significant Deterioration major modification for NO<sub>x</sub> as follows:

- a. The NO<sub>x</sub> emission concentration from EU IDs 4 and 5 shall not exceed 79 ppmvd at 15% O<sub>2</sub> and corrected to ISO standard conditions.
- b. The annual fuel gas consumption for EU IDs 6 – 9 (combined) shall not exceed a combined total of 3,272 MMscf per 12-month rolling period.
- c. The cumulative total NO<sub>x</sub> emission rate for EU IDs 4 – 9 (combined) shall not exceed 1,808 tons per 12-month rolling period, expressed as NO<sub>2</sub>.

20.1 Monitor and record the monthly average ambient temperature, hours of operation, and gas consumption for each of EU IDs 4 – 9.

20.2 Monitor, record, and report NO<sub>x</sub> emission concentration for EU IDs 4 and 5, and cumulative total NO<sub>x</sub> emissions for EU IDs 4 – 9 in accordance with Condition 23.

20.3 Report in accordance with Condition 72 whenever the limits in Condition 20 are exceeded.

[Construction Permit No. 0073-AC061, 2/21/01]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**21. Carbon Monoxide Limits.** The Permittee shall avoid classification as a Prevention of Significant Deterioration of major modification for CO as follows:

- a. CO emissions for EU IDs 4 – 9 (combined) shall not exceed a cumulative total of 366 tons per 12-month rolling period.

- 21.1 Monitor and record the monthly average ambient temperature, hours of operation, and gas consumption for each of EU IDs 4 – 9.
- 21.2 Monitor, record, and report cumulative total CO emissions for EU IDs 4 – 9 in accordance with Condition 23.
- 21.3 Report in accordance with Condition 72 whenever the limit in Condition 21.a is exceeded.

[Construction Permit No. 0073-AC061, 2/21/01]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

**22. EU IDs 41 and 42.** The Permittee shall operate and maintain EU IDs 41 and 42 with a closed vent system and control device meeting the specifications of 40 C.F.R. 60.112b(a)(3).

- 22.1 Operate and maintain the closed vent system and control device for EU IDs 41 and 42 in accordance with the submitted ‘Operating Plan for Divert and Slop Oil Tanks’ plan as revised June 2002.
- 22.2 Keep records for EU IDs 41 and 42 in accordance with 40 C.F.R. 60.115b(c).
- 22.3 Report in accordance with Condition 72 any time that the closed vent system and control device for EU IDs 41 and 42 are not operated in accordance with 40 C.F.R. 60.112b(a)(3).

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

*Best Available Control Technology (BACT) Limits*

**23. Best Available Control Technology Limits.** The Permittee shall limit actual emissions from EU IDs 1 – 20 as indicated in Table B below.

**Table B – Turbine and Heater BACT Limits**

Pollutant	EU ID	Make/Model	Tag Number	Emission Limit (short-term) per Individual Unit	Annual Emission Limit (TPY) <sup>1</sup>
NO <sub>x</sub>	1 – 3	Ruston Turbines	42-1800 42-1801 42-1826	117 ppmvd @ 15% O <sub>2</sub>	274 (combined)
	4 & 5	GE Turbines	52-1807 52-1808	79 ppmvd at 15% O <sub>2</sub> , ISO	1,063 (combined)
	6 – 9	Solar Mars Turbines	42-0101 42-0102 42-0103 42-0114	152 ppmvd at 15% O <sub>2</sub>	745 (combined)
	10 & 11	BS&B Reboilers	42-1411 42-1412	0.16 lb/MMBtu	7 (combined)

Pollutant	EU ID	Make/Model	Tag Number	Emission Limit (short-term) per Individual Unit	Annual Emission Limit (TPY) <sup>1</sup>
	12 – 20	Entec Process Heater, Entec Utility Heaters, BS&B Drillsite Heaters	42-1400 42-1403 42-1404 41-1410 41-1420 41-1430 41-1440 41-1450 46-1460	0.08 lb/MMBtu	102 (combined)
CO	1 – 3	Ruston Turbines	42-1800 42-1801 42-1826	109 lb/MMscf fuel at 100% rated capacity corrected to ISO conditions	234 (combined)
	4 – 9	GE Turbines & Solar Mars Turbines	52-1807 52-1808 42-0101 42-0102 42-0103 42-0114	109 lb/MMscf fuel at 100% rated capacity corrected to ISO conditions	366 (combined)
	10 – 20	BS&B Reboilers, Entec Process Heater, Entec Utility Heaters, BS&B Drillsite Heaters	42-1411 42-1412 42-1400 42-1403 42-1404 41-1410 41-1420 41-1430 41-1440 41-1450 46-1460	0.018 lb/MMBtu	24 (combined)
SO <sub>2</sub>	1 – 9	Ruston Turbines GE Turbines & Solar Mars Turbines	42-1800 42-1801 42-1826 52-1807 52-1808 42-0101 42-0102 42-0103 42-0114	168 ppmv H <sub>2</sub> S in fuel gas, averaged over 3 consecutive hours	157 (combined)
	10 – 14	BS&B Reboilers, Entec Process Heater, Entec Utility Heaters	42-1411 42-1412 42-1400 42-1403 42-1404	168 ppmv H <sub>2</sub> S in fuel gas, averaged over 3 consecutive hours	22 (combined)
	15 – 20	BS&B Drillsite Heaters	41-1410 41-1420 41-1430 41-1440 41-1450 46-1460	600 ppmv H <sub>2</sub> S in fuel gas, averaged over 3 consecutive hours	73 (combined)

Pollutant	EU ID	Make/Model	Tag Number	Emission Limit (short-term) per Individual Unit	Annual Emission Limit (TPY) <sup>1</sup>
	21 – 23	Emergency Generators and Firewater Pumps	42-104 42-1529 42-1589	<i>0.2% sulfur in diesel fuel annual average; 0.25% sulfur diesel fuel maximum in any shipment</i>	None
	33 – 37	Flares	42-2802 42-2803 42-2804 42-2840 42-2841	<i>168 ppmv H<sub>2</sub>S in fuel gas, averaged over 3 consecutive hours</i>	None
	24 – 31	Emergency Generators	80-808 80-802 80-804 80-806 80-809 80-891 80-892 80-859	<i>0.2% sulfur in diesel fuel annual average; 0.25% sulfur diesel fuel maximum in any shipment</i>	None
<b>PM-10</b>	1 – 9	Turbines	42-1800 42-1801 42-1826 52-1807 52-1808 42-0101 42-0102 42-0103 42-0114	<i>10% opacity, averaged over any six consecutive minutes</i>	None
	33 – 37	Flares	42-2802 42-2803 42-2804 42-2840 42-2841	<i>20% opacity, averaged over any six consecutive minutes</i>	None

- Notes: (1) BACT limits from Permit to Operate No. 9473-AA025 are italicized and the BACT limits requested by the Permittee from Construction Permit No. 0073-AC061 are underlined.  
(2) All turbine group emission limits for NO<sub>x</sub> refer to full load, ISO conditions.  
(3) All other emission limits refer to full load, standard conditions.

23.1 To ensure compliance with the annual emission limits:

- a. Calculate the monthly and the consecutive 12-month summation of emissions of NO<sub>x</sub>, CO, and SO<sub>2</sub> for EU IDs 1 – 20 as grouped in Table B.
  - (i) For NO<sub>x</sub> and CO emissions, use the emission factors found in Section 12 of this permit, along with the hours of operation and/or amount of fuel used to calculate the monthly emissions for each unit.

- (ii) For SO<sub>2</sub> emissions, calculate and record the monthly and consecutive 12-month rolling total SO<sub>2</sub> emissions using a mass balance equation with the quantities of each fuel burned and the hydrogen sulfide content of fuel gas or sulfur content of fuel oil as measured in Conditions 9 and 37.
- b. Report the monthly and the consecutive 12-month summation of emissions as grouped in Table B, for each month of the reporting period with each operating report required by Condition 73.
- c. Notify the Department per Condition 72 when the consecutive 12-month summation of emissions of any air pollutant exceeds the limit for that pollutant in Table B.

23.2 To ensure compliance with the short-term emission limits:

- a. For EU IDs 1 – 9, monitor, record, and report in accordance with Condition 36 to demonstrate compliance with the short-term turbine BACT NO<sub>x</sub> emission limits in Table B and current emission factors for Section 12. Conduct tests at no less than four loads representative of each turbine's typical operative range unless that range is less than 10% of the ratio capacity.
- b. Within 12 months of the effective date of this permit, conduct a NO<sub>x</sub> emission source test on EU IDs 10 – 20 and a CO emission source test on EU IDs 1 – 20 in accordance with Section 6 to ensure compliance with the short-term BACT NO<sub>x</sub> and CO emission limits in Table B current emission factors for Section 12. Conduct tests at no less than four loads representative of each turbine's typical operative range unless that range is less than 10% of the ratio capacity. For units of the same make, model, and design, one unit within the group can be tested. If the unit has a run time of less than 400 hours per year for each year in the preceding 5 years, no source testing is required. Test that unit within one year after exceeding 400 hours per year.
- c. Monitor, record, and report in accordance with Condition 9 to demonstrate compliance with the short-term BACT SO<sub>2</sub> emission limits in Table B.
- d. For EU IDs 1 – 9, conduct a visible emission observation within 12 months of the effective date of this permit to demonstrate compliance with the short-term turbine BACT PM-10 emission limit in Table B. Monitor, record, and report in accordance with Conditions 2.1, 3.1, and 4.1b.
- e. For EU IDs 33 – 37, monitor, record, and report in accordance with Condition 5 to demonstrate compliance with the short-term flare BACT PM-10 emission limit in Table B.

[Construction Permit No. 0073-AC061, 2/21/01]  
[Permit to Operate No. 9473-AA025, Amendment 2, 1/13/97]  
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a), 7/2/07]

### **Insignificant Emission Units**

**24.** For EU IDs 22 – 28, 31, and 32, and other 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:

24.1 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)(2) & 50.055(a)(1), 7/25/08]

24.2 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]

24.3 The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

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

24.4 General MR&R for Insignificant Emissions Units

- a. The Permittee shall submit the compliance certifications of Condition 74 based on reasonable inquiry for Condition 24;
- b. The Permittee shall comply with the requirements of Condition 51;
- c. The Permittee shall report in the operating report required by Condition 73 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;
- d. No other monitoring, recordkeeping or reporting is required except as indicated otherwise within the permit.

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

## ***Section 4. Federal Requirements***

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

**25. NSPS Subpart A Notification.** For any affected facility<sup>7</sup> or existing facility<sup>8</sup> 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 50.040(a)(1), 7/25/08]  
[40 C.F.R. 60.7(a) & 60.15(d), Subpart A, 7/1/07]

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

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

25.2 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), Subpart A, 7/1/07]

25.3 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 60 days or as soon as practicable before the change is commenced 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), Subpart A, 7/1/07]

25.4 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), Subpart A, 7/1/07]

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<sup>7</sup> *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 7/1/07.

<sup>8</sup> *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.

25.5 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 required to construct a comparable entirely new facility, postmarked 60 days (or as soon as practicable) before construction of the replacements is commenced and must include 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.

**26. 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 IDs 1 – 9, 20, 33 – 37, and 43 any malfunctions of associated air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for 1 – 9, 20, 33 – 37, and 43 is inoperative.

[18 AAC 50.040(a)(1), 7/25/08]  
[40 C.F.R. 60.7(b), Subpart A, 7/1/07]

**27. NSPS Subpart A Excess Emissions and Monitoring Systems Performance Report.** The Permittee shall submit to the Department and to EPA a written "excess emissions and monitoring systems performance report" (EEMSP)<sup>9</sup> as described in this condition for EU IDs 1 – 9. Except as provide for in Condition 37.4, submit the EEMSP reports with the summary report form as required under Condition 28. Written reports of excess emissions shall include the following information:

[18 AAC 50.040(a)(1), 7/25/08]  
[40 C.F.R. 60.7(c), Subpart A, 7/1/07]

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<sup>9</sup> The federal EEMSP report is not the same as the State excess emission report required by Condition 72.

27.1 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]

27.2 Identification of each period of excess emissions that occurred during startup, shutdown, and malfunction (if known) of EU IDs 1 – 9 and 20; 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]

**28. NSPS Subpart A Summary Report Form.** Except as provided for in Condition 37.4, submit to the Department and to EPA a "summary report form"<sup>10</sup> semiannually postmarked by the 30<sup>th</sup> day following the end of each 6-month period in the format shown in Figure 1 of 40 C.F.R. 60.7 for each pollutant monitored for EU IDs 1 – 9 as follows:

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

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

28.1 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 5 percent of the total operating time for the reporting period, submit only the summary report form unless the EEMSP report described in Condition 27 is requested by the Department or EPA; or

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

28.2 If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, submit a summary report form **and** the EEMSP described in Condition 27.

[40 C.F.R. 60.7(d)(2), Subpart A, 7/1/07]

**29. 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. Tests shall be conducted according to Section 6 of this permit and as outlined in 40 C.F.R. 60.8(a) through (e). The Permittee shall:

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

[40 C.F.R. 60.8(a), Subpart A, 7/1/07]

29.1 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]

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<sup>10</sup> See Summary Report form in Attachment A of the Statement of Basis.

- 29.2 Conduct source tests under conditions specified by EPA to be based on representative performance of EU IDs 1 – 9.  
[40 C.F.R. 60.8(c), Subpart A, 7/1/07]
- 29.3 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]
- 29.4 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]
- 30. 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 IDs 1 – 9, 20, 33 – 37, and 43 including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The Administrator will determine whether acceptable operating and maintenance procedures are being used based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspections of EU IDs 1 – 9, 20, 33 – 37, and 43.  
[18 AAC 50.040(a)(1), 7/25/08]  
[40 C.F.R. 60.11(d), Subpart A, 7/1/07]
- 31. 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 36 and/or 37, 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 IDs 1 – 9, 20, 33 – 37, and 43 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), Subpart A, 7/1/07]
- 32. 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 which would otherwise constitute a violation of a standard set forth in Conditions 36 and/or 37. 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, Subpart A, 7/1/07]
- 33. NSPS Subpart A General Control Device Requirements.** The Permittee shall monitor EU IDs 33 – 37, flares used as control devices for EU ID 43, to ensure that they are operated and maintained in conformance with 40 C.F.R. 60.18(c)(1), (c)(2), (c)(3), (c)(4), (c)(6), 60.18(d), 60.18(e), 60.18(f)(1), (f)(2), (f)(3), (f)(4), (f)(5), and 40 C.F.R. 60.485(g).  
[18 AAC 50.040(a)(1), 50.040(a)(2)(Z) & (DD), 7/25/08]  
[40 C.F.R. 60.18(b) – (f), Subpart A, 7/1/07]  
[40 C.F.R. 60.633(g), Subpart KKK & 60.485(g), Subpart VV, 7/1/07]

33.1 Momentarily observe the exhaust from EU IDs 33 – 37 during normal operation for indications of visible emissions (VE). Keep a log of the observations in accordance with Condition 33.3. Observations may be made via remote video camera monitoring from the control room if an operator cannot see the exhaust of EU IDs 33 – 37 through a window or cannot go outside for safety or weather reasons to make observations.

- a. Initial Monitoring Frequency: Observe the exhaust during each calendar day that EU IDs 33 – 37 operate.
- b. Reduced Monitoring Frequency: After EU IDs 33 – 37 have been observed on 30 operating days, if during normal operations the emission units operated without visible emissions in the exhaust for those 30 days, then observe the exhaust at least once in every calendar month that EU IDs 33 – 37 operate.

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

33.2 Except as provided in Condition 33.2e, if visible emissions are observed at any time during normal flaring operations of EU IDs 33 – 37, the Permittee shall conduct a visible emission (VE) evaluation in accordance with 40 C.F.R. 60 Appendix A, Method 22. The Method 22 VE observation period shall not be less than 2 hours in duration, sufficient to document a violation of 40 C.F.R. 60.18(c)(1). Observation of the flares may be postponed for safety or weather reasons. If visible emissions are noted for a total of more than 5 minutes during the Method 22 VE observation:

- a. Determine whether the flares are being properly operated and maintained.
- b. Initiate corrective actions, if necessary, to eliminate visible emissions from the emission unit(s) within 24 hours of the Method 22 VE observation;
- c. Keep a written record of the starting date, the completion date, and a description of the actions taken to reduce visible emissions; and
- d. After completing the corrective actions, conduct a follow-up VE evaluation in accordance with 40 C.F.R. 60 Appendix A, Method 22 within 3 days. The Method 22 VE observation period shall not be less than 2 hours in duration. The 3-day time limit to conduct observations may be extended by the Department for sufficient cause.
- e. Visible emissions observed during startup, shutdown or malfunction shall not be considered a violation of 40 C.F.R. 60.18(c)(1).

[18 AAC 50.040(a) & (j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.11(c), 60.18(c)(1) & (f)(1), Subpart A, 7/1/07]  
[40 C.F.R. 60.485(g)(1), Subpart VV, 7/1/07]  
[40 C.F.R. 71.6(a)(3), 7/2/07]

33.3 For observations of visible emissions per Condition 33.1 and for any Method 22 observations per Condition 33.2, record the following information in a written log for each observation of EU IDs 33 – 37:

- a. From Table A, the ID of the emission unit observed;
- b. The date, time, and duration of the observation;
- c. For observations conducted per:
  - (i) Condition 33.1, whether visible emissions are present or absent in the exhaust plume, or
  - (ii) Condition 33.2, accumulated time visible emissions are present in the exhaust;
- d. A description of the background to the exhaust during the observation;
- e. Name and location of the person making the observation; and
- f. Keep records in accordance with Condition 33.2c.

[18 AAC 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]

33.4 The Permittee shall monitor the presence of the flare pilot using a thermocouple or other equivalent device.

- a. The Permittee shall maintain records of all periods of operation during which the flare pilot flame is absent.

[18 AAC 50.040(a)(1), (a)(2)(Z) & (DD), 50.040 (j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.18(c)(2) & (f)(2), Subpart A, 7/1/07]  
[40 C.F.R. 60.485(g)(2), Subpart VV, 7/1/07]  
[40 C.F.R. 71.6(a)(3), 7/2/07]

33.5 The Permittee shall determine the actual exit velocity of EU IDs 33 – 37 using the methods outlined in 40 C.F.R. 60.18(f)(4) or by an alternate method approved by the Administrator.

- a. The Permittee shall maintain records of the initial performance test and any subsequent test(s) requested by the Department or by EPA that show the actual flare exit velocity.

[18 AAC 50.040(a)(1), (a)(2)(Z) & (DD), 50.040 (j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.18(c)(4) & (f)(4), Subpart A, 7/1/07]  
[40 C.F.R. 60.485(g)(7), Subpart VV, 7/1/07]  
[40 C.F.R. 71.6(a)(3), 7/2/07]

33.6 The Permittee shall report excess emissions or permit deviations, in accordance with Condition 72, as follows:

- a. The dates and reasons for failure to conduct monitoring or recordkeeping per Conditions 33.1 through 33.5.
- b. When the exhaust of any of EU IDs 33 – 37 is visible for more than a total of five (5) minutes during any two (2) consecutive hours, except if the emissions are observed during startup, shutdown or malfunction.
- c. When the pilot flame is absent from any of EU IDs 33 – 37.
- d. When the heating value of flared gas is less than 200 Btu/scf.
- e. When the actual exit velocity of any of EU IDs 33 – 37 obtained as a result of tests conducted per Condition 33.5 exceeds the maximum permitted exit velocity determined in accordance with 40 C.F.R. 60.18(f)(5).

[18 AAC 50.040(a)(1) & (j), 7/25/08; 18 AAC 50.326(j), 12/1/04]

[40 C.F.R. 60.11(c), Subpart A, 7/1/07]

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

33.7 Submit with the operating report required under Condition 73:

- a. The number of days that VE observations per Condition 33.1 were made, and the dates, if any, that a Method 22 VE per Condition 33.2 was observed; and
- b. Copies of records required under Conditions 33.2 through 33.6.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]

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

### **Steam Generating Units Subject to NSPS Subpart Dc, EU ID 20**

**34. NSPS Subpart Dc Notification Requirement.** The Permittee of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 C.F.R. 60.7 (Condition 25). This notification shall include:

[18 AAC 50.040(a)(2)(D), 7/25/08]

[40 C.F.R. 60.48c(a), Subpart Dc, 7/1/07]

34.1 The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

[40 C.F.R. 60.48c(a)(1), Subpart Dc, 7/1/07]

34.2 The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

[40 C.F.R. 60.48c(a)(3), Subpart Dc, 7/1/07]

**35. NSPS Subpart Dc Fuel Consumption.** For EU ID 20, the Permittee shall record the amounts of each fuel combusted during each day and maintain the records for a period of two years following the date of such record; or monitor according to an EPA approved custom fuel-monitoring schedule.

35.1 As an alternative to meeting the requirements of Condition 35, the owner or operator of an affected facility that combusts only natural gas to demonstrate compliance with the SO<sub>2</sub> standard may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

[18 AAC 50.040(a)(2)(D), 7/25/08]  
[40 C.F.R. 60.48c(g) & (i), Subpart Dc, 7/1/07]

### **Turbines Subject to NSPS Subpart GG, EU IDs 1 – 9**

**36. NSPS Subpart GG NO<sub>x</sub> Standard.** The Permittee shall not allow the exhaust gas concentration of NO<sub>x</sub> to exceed:

- a. **153 ppmv** at 15 percent O<sub>2</sub> dry exhaust basis from EU IDs 1 – 3;
- b. **173 ppmv** at 15 percent O<sub>2</sub> dry exhaust basis from EU IDs 4 and 5;
- c. **198 ppmv** at 15 percent O<sub>2</sub> dry exhaust basis from EU IDs 6 – 9;

[18 AAC 50.040(a)(2)(V), 7/25/08]  
[40 C.F.R. 60.332(a)(2) & (d), Subpart GG, 7/1/07]

36.1 **Waivers.** The Permittee shall provide to the Department a written copy of any U.S. EPA granted waiver of the federal emission standards, recordkeeping, monitoring, performance testing, or reporting requirements, or approved custom monitoring schedules upon request by the Department. The Permittee shall keep a copy of each U.S. EPA issued monitoring waiver or custom monitoring schedule with the permit.

36.2 **Monitoring.** The Permittee shall comply with the following:

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

- a. **Periodic Testing.** For each turbine subject to Condition 36 that operates for 400 hours or more in any 12-month period during the life of this permit, the Permittee shall satisfy either Conditions 36.2a(i) or 36.2a(ii).
  - (i) For existing turbines whose latest emissions source testing was certified as operating at less than or equal to 90 percent of the limit shown in Condition 36, the Permittee shall conduct a NO<sub>x</sub> and O<sub>2</sub> source test under 40 C.F.R. 60, Appendix A, Method 20, or Method 7E and either Method 3 or 3A, within the first applicable criteria below in the noted timeframe no later than **Five Years**, except as set out in Conditions 36.2a(i)(C) and 36.2a(ii):
    - (A) Within 5 years of the latest performance test, or

- (B) Within 1 year of the date of issue of this permit if the last source test occurred greater than five years prior to issuance of this permit and the 400 hour threshold was triggered within 6 months of the permit issue date, or
  - (C) Within 1 year after exceeding 400 hours of operation in a 12-month period if the last source test occurred greater than 5 years prior to the exceedance.
- (ii) For existing turbines whose latest emissions source testing was certified as operating at greater than 90 percent of the limit shown in Condition 36, the Permittee shall conduct a NO<sub>x</sub> and O<sub>2</sub> source test under 40 C.F.R. 60, Appendix A-7, Method 20, or Method 7E and either Method 3 or 3A, annually until two consecutive tests show performance results certified at less than or equal to 90 percent of the limit of Condition 36.
- b. Substituting Test Data. The Permittee may use a Method 20, or Method 7E and either Method 3 or 3A, test under Conditions 36.2a performed on only one of a group of turbines to satisfy the requirements of those conditions for the other turbines in the group if
- (i) The Permittee demonstrates that test results are less than or equal to 90 percent of the emission limit of Condition 36, and are projected under Condition 36.2c to be less than or equal to 90 percent of the limit at maximum load;
  - (ii) For any source test done after the issuance date of this permit, the Permittee identifies in a source test plan under Condition 65
    - (A) the turbine to be tested;
    - (B) the other turbines in the group that are to be represented by the test; and
    - (C) why the turbine to be tested is representative, including that each turbine in the group
      - (1) is located at a stationary source operated and maintained by the Permittee;
      - (2) is tested under close to identical ambient conditions;
      - (3) is the same make and model and has identical injectors and combustor;
      - (4) uses the same fuel type from the same source.

- (iii) The Permittee may not use substitute test results to represent emissions from a turbine or group of turbines if that turbine or group of turbines is operating at greater than 90 percent of the emission limit of Condition 36.
- c. **Load.** The Permittee shall comply with the following:
- (i) Conduct all tests under Condition 36.2 in accordance with 40 C.F.R. 60.335, except as otherwise approved in writing by the Department, or by EPA if the circumstances at the time of the EPA approval are still valid. For the highest load condition, if it is not possible to operate the turbine during the test at maximum load, the Permittee will test the turbine when operating at the highest load achievable by the turbine under the ambient and stationary source operating conditions in effect at the time of the test.
  - (ii) Demonstrate in the source test plan for any test performed after the issue date of this permit whether the test is scheduled when maximum NOx emissions are expected.
  - (iii) If the highest operating rate tested is less than the maximum load of the tested turbine or another turbine represented by the test data,
    - (A) for each such turbine the Permittee shall provide to the Department as an attachment to the source test report
      - (1) additional test information from the manufacturer or from previous testing of units in the group of turbines; if using previous testing of the group of turbines, the information must include all available test data for the turbines in the group, and
      - (2) a demonstration based on the additional test information that projects the test results from Condition 36.2 to predict the highest load at which emissions will comply with the limit in Condition 36;
    - (B) the Permittee shall not operate any turbine represented by the test data at loads for which the Permittee's demonstration predicts that emissions will exceed the limit of Condition 36;
    - (C) the Permittee shall comply with a written finding prepared by the Department that
      - (1) the information is inadequate for the Department to reasonably conclude that compliance is assured at any load greater than the test load, and that the Permittee must not exceed the test load;

- (2) the highest load at which the information is adequate for the Department to reasonably conclude that compliance assured is less than maximum load, and the Permittee must not exceed the highest load at which compliance is predicted, or
- (3) the Permittee must retest during a period of greater expected demand on the turbine; and
- (D) the Permittee may revise a load limit by submitting results of a more recent Method 20, or Method 7E and either Method 3 or 3A, test done at a higher load, and, if necessary, the accompanying information and demonstration described in Condition 36.2c(iii)(A); the new limit is subject to any new Department finding under Condition 36.2c(iii)(C).
- (iv) In order to perform a Method 20, or Method 7E and either Method 3 or 3A, emission test, the Permittee may operate a turbine at a higher load than that prescribed by Condition 36.2c(iii).
- (v) For the purposes of Conditions 36.2 through 36.4, maximum load means the hourly average load that is the smallest of
  - (A) 100 percent of manufacturer's design capacity of the gas turbine at ISO standard day conditions;
  - (B) the highest load allowed by an enforceable condition that applies to the turbine; or
  - (C) the highest load possible considering permanent physical restraints on the turbine or the equipment which it powers.

**36.3 Recordkeeping.** The Permittee shall keep records as follows:

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

- a. The Permittee shall comply with the following for each turbine for which a demonstration under Condition 36.2c(iii) does not show compliance with the limit of Condition 36 at maximum load.
  - (i) The Permittee shall keep records of
    - (A) load; or
    - (B) as approved by the Department, surrogate measurements for load and the method for calculating load from those measurements.

- (ii) Records in Condition 36.3a shall be hourly or otherwise as approved by the Department.
  - (iii) Within one month after submitting a demonstration under Condition 36.2c(iii)(A)(2) that predicts that the highest load at which emissions will comply is less than maximum load, or within one month of a Department finding under Condition 36.2c(iii)(C), whichever is earlier, the Permittee shall propose to the Department how they will measure load or load surrogates, and shall propose and comply with a schedule for installing any necessary equipment and beginning monitoring. The Permittee shall comply with any subsequent Department direction on the load monitoring methods, equipment, or schedule.
- b. For any turbine subject to Condition 36 that will operate less than 400 hours in any 12 consecutive months, the Permittee shall keep monthly records of the hours of operation.

**36.4 Reporting.** The Permittee shall report as follows:

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

- a. In each stationary source operating report under Condition 73, the Permittee shall list for each turbine tested or represented by testing at less than maximum load and for which the Permittee must limit load under Condition 36.2c(iii)
  - (i) the load limit;
  - (ii) the turbine identification; and
  - (iii) the highest load recorded under Condition 36.3a during the period covered by the operating report.
- b. In each stationary source operating report under Condition 73 for each turbine for which Condition 36.2 has not been satisfied because the turbine normally operates less than 400 hours in any 12 consecutive months, the Permittee shall identify
  - (i) the turbine;
  - (ii) the highest number of operating hours for any 12 consecutive months ending during the period covered by the report; and
  - (iii) any turbine that operated for 400 or more hours.
- c. The Permittee shall report under Condition 72 if
  - (i) a test result exceeds the emission standard;

- (ii) Method 20, or Method 7E and either Method 3 or 3A, testing is required under Condition 36.2a(i) or 36.2a(ii) but not performed, or
- (iii) the turbine was operated at a load exceeding that allowed by Conditions 36.2c(iii)(B) and 36.2c(iii)(C); exceeding a load limit is deemed a single violation rather than a multiple violation of both monitoring and the underlying emission limit.

[18 AAC 50.220(a) - (c), 1/18/97; 18 AAC 50.040(a)(1), 7/25/08]  
[40 C.F.R. 60.8(b), Subpart A, 7/1/07]

**37. NSPS Subpart GG Sulfur Standard.** The Permittee shall not allow the sulfur content for the fuel burned in EU IDs 1 – 9 to exceed 0.8 percent by weight.

[18 AAC 50.040(a)(2)(V), 7/25/08]  
[40 C.F.R. 60.333(b), Subpart GG, 7/1/07]

**37.1 Monitoring.** The Permittee shall monitor compliance with the standard listed in this condition as follows:

[18 AAC 50.040(a)(2)(V), 7/25/08]  
[40 C.F.R. 60.334 & 60.335, Subpart GG, 7/1/07]

- a. Monitor the total sulfur content of the fuel being fired in the turbine, except as provided in Condition 37.1b. The sulfur content of the fuel must be determined using total sulfur methods described in 40 C.F.R. 60.335(b)(10) and Condition 37.2. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4,000 ppmw), ASTM D4084–82, 94, D5504–01, D6228–98, or Gas Processors Association Standard 2377–86, which measure the major sulfur compounds may be used.

[40 C.F.R. 60.334(h)(1), Subpart GG, 7/1/07]
- b. The owner or operator may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 C.F.R. 60.331(u), regardless of whether an existing custom schedule approved by the Administrator requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration<sup>11</sup>:
  - (i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or

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<sup>11</sup> The Permittee may submit a certified statement to the Department indicating that the fuel gas combusted at the stationary source meets the definition of natural gas in 40 C.F.R. 60.331(u), pursuant to 40 C.F.R. 60.334(h)(3). Periodic fuel sulfur monitoring under Condition 37.1a and reporting under Conditions 27, 28, and 37.4 do not apply to Subpart GG turbines that have demonstrated that natural gas fuel meets the definition of 40 C.F.R. 60.331(u) as set out by Condition 37.1b. Per 40 C.F.R. 60.334(i)(3)(i), a custom sulfur monitoring schedule under 60.334(i)(3)(ii)(A) is acceptable without prior Administrative approval.

- (ii) Representative fuel sampling data, which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in 40 C.F.R. 75, Appendix D, Section 2.3.1.4 or 2.3.2.4 is required.

[40 C.F.R. 60.334(h)(3), Subpart GG, 7/1/07]
- c. For any turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and for which a custom fuel monitoring schedule has previously been approved, the owner or operator may, without submitting a special petition to the Administrator, continue monitoring on this schedule.<sup>12</sup>

[40 C.F.R. 60.334(h)(4), Subpart GG, 7/1/07]
- d. The frequency of determining the sulfur content of the fuel shall be as follows:
  - (i) Gaseous fuel. For owners and operators that elect not to demonstrate sulfur content using options in Condition 37.1b, and for which the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel shall be determined and recorded once per unit operating day.
  - (ii) Custom schedules. Notwithstanding the requirements of Condition 37.1d(i), operators or fuel vendors may develop custom schedules for determination of the total sulfur content of gaseous fuels, based on the design and operation of the affected facility and the characteristics of the fuel supply. Except as provided in 40 C.F.R. 60.334(i)(3)(i) and (i)(3)(ii), custom schedules shall be substantiated with data and shall be approved by the Administrator before they can be used to comply with the standard in Condition 37. The two custom sulfur monitoring schedules set forth in 40 C.F.R. 60.334(i)(3)(i)(A) through (D) and 60.334(i)(3)(ii) are acceptable without prior Administrative approval.

[40 C.F.R. 60.334(i), Subpart GG, 7/1/07]

**37.2 Test Methods and Procedures.** If the owner or operator is required under 40 C.F.R. 60.334(i) to periodically determine the sulfur content of the fuel combusted in the turbine, a minimum of three fuel samples shall be collected during the performance test. Analyze the samples for the total sulfur content of the fuel using:

- a. For gaseous fuels, ASTM D1072-80, 90; D3246-81, 92, 96; D4468-85; or D6667-01. The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the prior approval of the Administrator.

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<sup>12</sup> The EPA-approved Custom Fuel Monitoring Schedule and Alternate H<sub>2</sub>S Sampling Method allow the Permittee to determine the fuel sulfur content of the fuel gas at least monthly using ASTM D 4810-88, ASTM D 4913-89, Gas Producer's Association (GPA) Method 2377-86.

- b. The fuel analyses required under Condition 37.2a may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.335(b)(10 & 11), Subpart GG, 7/1/07]

- 37.3 **Recordkeeping.** Keep records as required by Condition 37.1 and 37.2, and in accordance with Condition 68.

[18 AAC 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]

- 37.4 **Reporting.** For each affected unit that periodically determines the fuel sulfur content under Condition 37.1a, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with 40 C.F.R. 60.7(c) as summarized in Condition 27 except where otherwise approved by a custom fuel monitoring schedule. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction as described by 40 C.F.R. 60.334(j)(2).

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.334(j), Subpart GG, 7/1/07]

### Emission Units Subject to NSPS Subpart KKK, EU IDs 33 – 37 and 43

#### 38. NSPS Subpart KKK Standards (including Monitoring and Repairs).

- 38.1 Pumps in Light Liquid Service (40 C.F.R. 60.482-2). Pumps in light liquid service shall be checked by visual inspection each calendar week for indications of a leak<sup>13</sup>. Pumps equipped with a closed vent system capable of capturing and transporting any leakage from the seal or seals to a process or to a fuel gas system or to a control device that complies with the requirements of Condition 38.9 are exempt from the requirement of this condition pursuant to 40 C.F.R. 60.482-2(f).

- a. When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9.
- b. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

[18 AAC 50.040(a)(2)(Z) & (DD), 7/25/08]  
[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.482-2(a)(2),(b)(2), (c) & (f) & 60.482-9, Subpart VV, 7/1/07]

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<sup>13</sup> A *leak* is defined for purposes of this condition as any indications of liquids dripping from the pump seal [ref. 40 C.F.R. 60.482-2(b)(2)].

38.2 Compressors (40 C.F.R. 60.482-3). Affected compressors shall either be equipped with a seal system which vents to a closed vent system designed and operated in accordance with Conditions 38.9 and 38.9a – 38.9d (40 C.F.R. 60.482-10), or a seal system that includes a barrier fluid system and that prevents leakage of volatile organic compounds (VOC) to the atmosphere, designed and operated in accordance with provisions of 40 C.F.R. 60.482-3(b), (c), and (d).

[18 AAC 50.040(a)(2)(Z) & (DD), 7/25/08]

[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]

[40 C.F.R. 60.482-3(b), (c), & (d), Subpart VV, 7/1/07]

- a. The sensor(s) for the compressor barrier fluid systems and/or seal systems shall be checked daily or shall be equipped with an audible alarm.
- b. When a leak is detected<sup>14</sup>, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9.
- c. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]

[40 C.F.R. 60.482-3(e), (f), & (g) & 60.482-9, Subpart VV, 7/1/07]

38.3 Pressure Relief Devices in Gas/Vapor Service (40 C.F.R. 60.482-4 and §60.633(b)). Except during pressure releases, each pressure relief device in gas/vapor service that vents to atmosphere shall be operated with no detectable emissions<sup>15</sup>, except as provided by Condition 38.4.

[18 AAC 50.040(a)(2)(Z) & (DD), 7/25/08]

[40 C.F.R. 60.633(a), Subpart KKK, 7/1/07]

- a. Pressure relief devices that vent to atmosphere shall be returned to a condition of no detectable emissions, as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in §60.482-9.
- b. Pressure relief devices that vent to atmosphere shall be monitored in accordance with 40 C.F.R. 60.485(c) using Method 21 (40 C.F.R. 60, Appendix A-7) to confirm the condition of no detectable emissions no later than 5 calendar days after any pressure release.

[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]

[40 C.F.R. 60.482-4(a) & (b), 60.485(c), & 60.482-9, Subpart VV, 7/1/07]

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<sup>14</sup> A *leak* is defined for purposes of this condition as any failure of the seal system, the barrier fluid system, or both [ref. 40 C.F.R. 60.482-3(f)].

<sup>15</sup> Emissions are detected as defined for this condition as any Method 21 reading of 500 ppm or greater above background [ref. 40 C.F.R. 60.482-4(b)(1)].

38.4 In lieu of meeting the requirements of Conditions 38.3, 38.3a, and 38.3b, the Permittee may elect to comply with the following:

- a. Each pressure relief device in gas/vapor service may be monitored within 5 days after each pressure release to detect leaks in accordance with 40 C.F.R. 60.485(b) using Method 21 (40 C.F.R. 60, Appendix A-7).<sup>16</sup> Method 21 monitoring is not required if the Permittee assumes that a leak would be detected by such monitoring and proceeds with leak repairs per Conditions 38.4b and 38.4c.
- b. When a leak is detected<sup>17</sup>, it shall be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in 40 C.F.R. 60.482-9.
- c. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

[18 AAC 50.040(a)(2)(Z) & (DD), 7/25/08]  
[40 C.F.R. 60.633(b), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.485(b), Subpart VV, 7/1/07]

38.5 Pressure relief devices equipped with a rupture disk upstream of the pressure relief device are exempt from the requirements of Condition 38.3, provided the Permittee complies with the following requirement pursuant to 40 C.F.R. 482-4(d):

- a. After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 C.F.R. 60.482-9.

[18 AAC 50.040(a)(2)(DD), 7/25/08]  
[40 C.F.R. 60.482-4(d), Subpart KKK, 7/1/07]

38.6 Open-ended Valves or Lines (40 C.F.R. 60.482-6). Open-ended valves or lines shall be equipped with a cap, blind flange, plug or a second valve and shall be operated in accordance with provisions of 40 C.F.R. 60.482-6.

[18 AAC 50.040(a)(2)(Z) & (DD), 7/25/08]  
[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.482-6, Subpart VV, 7/1/07]

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<sup>16</sup> Pressure relief devices in gas/vapor service are exempt from the routine (quarterly) monitoring requirement of §60.633(b)(1) [ref. 40 C.F.R. 60.633(e)].

<sup>17</sup> A *leak* is defined for this condition as any Method 21 reading of 10,000 ppm or greater [ref. 40 C.F.R. 60.633(b)(2)], or any evidence of a leak that the Permittee considers a leak.

38.7 Valves in Gas/Vapor Service and in Light Liquid Service (40 C.F.R. 60.482-7). For valves in gas/vapor service and in light liquid service, if a leak is detected<sup>18</sup>, the valve shall be monitored monthly in accordance with 40 C.F.R. 60.485(b) using Method 21 (40 C.F.R. 60, Appendix A-7) until a leak is not detected for 2 successive months. Method 21 monitoring is not required if the Permittee assumes that a leak would be detected by such monitoring and proceeds with leak repairs per Conditions 38.7a and 38.7b.

- a. When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in §60.482-9.
- b. A first attempt at repair shall be made no later than 5 calendar days after each leak is detected. This shall include, but is not limited to, the best practices described under 40 C.F.R. 60.482-7(e).

[18 AAC 50.040(a)(1), (a)(2)(Z) & (DD), 7/25/08]  
[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.482-7(b), (c)(2), (d) & (e) & 60.482-9, Subpart VV, 7/1/07]  
[40 C.F.R. 60.485(b), Subpart VV, 7/1/07]

38.8 Pumps and valves in heavy liquid service, pressure relief devices in light liquid or heavy liquid service, and flanges and other connectors (40 C.F.R. 60.482-8). If evidence of a potential leak is found by visual, audible, olfactory, or any other detection method, the Permittee shall monitor within 5 days the pumps and valves in heavy liquid service, pressure relief devices in light or heavy liquid service, and flanges and other connectors in accordance with 40 C.F.R. 60.485(b) using Method 21 (40 C.F.R. 60, Appendix A-7) to determine the presence of leaking sources. Method 21 monitoring is not required if the Permittee assumes that a leak would be detected by such monitoring and proceeds with leak repairs per Conditions 38.8a and 38.8b.

[18 AAC 50.040 (a)(2)(Z) & (DD), 7/25/08]  
[40 C.F.R. 60.632(a) & (d), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.482-8(a) & 60.485(b), Subpart VV, 7/1/07]

- a. When a leak is detected<sup>19</sup>, leak repairs shall be completed as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9.

[40 C.F.R. 60.482-8(b), 60.482-8(c)(1) & 60.482-9, Subpart VV, 7/1/07]

- b. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected. This shall include, but is not limited to, the best practices described under 40 C.F.R. 60.482-7(e).

[40 C.F.R. 60.482-8(c)(2) & (d) & 60.482-7(e), Subpart VV, 7/1/07]

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<sup>18</sup> A *leak* is defined for this condition as any Method 21 reading of 10,000 ppm or greater [ref. 40 C.F.R. 60.482-7(b)], or any evidence of a leak that the Permittee considers a leak.

<sup>19</sup> A *leak* is defined for this condition as any Method 21 reading of 10,000 ppm or greater [ref. 40 C.F.R. 60.482-8(b)], or any evidence of a leak that the Permittee considers a leak.

38.9 Closed Vent Systems and Control Devices (40 C.F.R. 60.482-10). Closed vent systems and control devices (EU IDs 33 – 37) used to comply with 40 C.F.R. 60.482-10 (pressure relief devices which vent to the flare header or closed systems) shall be operated at all times when emissions may be vented to them. EU IDs 33 – 37 shall be designed and operated to comply with 40 C.F.R. 60.18, as stated in Condition 33.

[18 AAC 50.040(a)(1), (a)(2)(Z) & (DD), 7/25/08]  
[40 C.F.R. 60.18(e), Subpart A, 7/1/07]  
[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.482-10, Subpart VV, 7/1/07]

a. The Permittee shall monitor the control devices (EU IDs 33 – 37) to ensure that they are operated and maintained in conformance with their designs.

[40 C.F.R. 60.18(d), Subpart A, 7/1/07]  
[40 C.F.R. 60.632(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.482-10(e), Subpart VV, 7/1/07]

b. For each closed vent system used to comply with applicable provisions of 40 C.F.R. 60.482-10, conduct annual visual inspections for visible, audible, or olfactory indications of leaks.

[40 C.F.R. 60.482-10(f)(1)(ii), Subpart VV, 7/1/07]

c. When a leak is detected<sup>20</sup>, perform leak repair procedures as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in §60.482-9.

[40 C.F.R. 60.482-10(g)(2) & 60.482-9, Subpart VV, 7/1/07]

d. The first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

[40 C.F.R. 60.482-10(g)(1), Subpart VV, 7/1/07]

**39. Recordkeeping.** The Permittee shall comply with the following recordkeeping requirements:

[18 AAC 50.040(a)(2)(Z) & (DD) & 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. 60.635(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.486, Subpart VV, 7/1/07]

39.1 When a leak is detected as specified by Conditions 38.1, 38.2b, 38.4b, 38.7, or 38.8a, a weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment. The identification on a valve may be removed after it has been monitored for 2 successive months as specified in Condition 38.7 and no leak has been detected during those 2 months. The identification on equipment except a valve, may be removed after it has been repaired.

<sup>20</sup> A *leak* is defined for this condition as any Method 21 reading of 500 ppm or greater above background [ref. 40 C.F.R. 60.482-10(g)], or any evidence of a leak that the Permittee considers a leak.

39.2 For each leak detected as specified by Condition 38.1, 38.2b, 38.4b, 38.7, or 38.8a, the following information shall be recorded in a log and shall be kept for 5 years in a readily accessible location:

[40 C.F.R. 60.635(a) & (b), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.486(b) & (c), Subpart VV, 7/1/07]

- a. The instrument and operator identification numbers and the equipment identification numbers;
- b. The date the leak was detected and the dates of each attempt to repair the leak;
- c. Repair methods applied in each attempt to repair the leak;
- d. "Above 10,000 ppm" if the maximum instrument reading measured by Method 21 after each repair attempt is equal to or greater than 10,000 ppm;
- e. "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak;
- f. The signature of the owner or operator (or designate) whose decision it was that repair could not be effected without a process shutdown;
- g. The expected date of successful repair of the leak if a leak is not repaired within 15 days;
- h. Dates of process unit shutdown that occur while the equipment is unrepaired;  
and
- i. The date of successful repair of the leak.

39.3 The following information pertaining to the design requirements for closed vent systems and control devices described in Conditions 38.2 and 38.9 shall be recorded and kept in a readily accessible location:

[40 C.F.R. 60.635(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.486(d), Subpart VV, 7/1/07]

- a. Detailed schematics, design specifications, and piping and instrumentation diagrams;
- b. The dates and descriptions of any changes in the design specifications;
- c. A description of the parameter(s) monitored, as required in Condition 38.9a, to ensure that control devices are operated and maintained in conformance with their design and an explanation of why that parameter(s) was selected for the monitoring;

- d. Periods when the closed vent systems and control devices required in Conditions 38.2 and 38.9 are not operated as designed, including periods when a flare pilot light in any of EU IDs 33 – 37 does not have a flame; and
- e. Dates of startups and shutdowns of the closed vent systems and control devices required in Conditions 38.2 and 38.9.

39.4 The following information shall be recorded in a log that is kept in a readily accessible location:

[40 C.F.R. 60.635(a), Subpart KKK, 7/1/07]  
[40 C.F.R. 60.486(e) & (j), Subpart VV, 7/1/07]

- a. A list of identification numbers for equipment subject to the applicable requirements of NSPS Subpart KKK (§60.482-2, 60.482-3, 60.482-4, 60.482-6, 60.482-7, 60.482-8, and 60.482-10) as stated in Conditions 38.1, 38.2, 38.3, 38.6, 38.7, 38.8 and 38.9;
- b. A list of equipment identification numbers for pressure relief devices required to comply with §60.482-4, as stated in Condition 38.3;
- c. The dates of each compliance test as required in §60.482-4, as stated in Condition 38.3b;
- d. The background level measured during each compliance test conducted per Condition 38.3b;
- e. The maximum instrument reading measured at the equipment during each compliance test conducted per Condition 38.3b;
- f. A list of identification numbers for equipment in vacuum service; and
- g. Information and data used to demonstrate that a piece of equipment is not in VOC service.

**40. Reporting.** The Permittee shall submit to EPA and the Department semi-annual operating reports that shall include the following:

[18 AAC 50.040(a)(2)(Z) & (DD) & 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. 60.636, Subpart KKK, 7/1/07]  
[40 C.F.R. 60.487(c), Subpart VV, 7/1/07]

40.1 Process unit identification;

40.2 For each month during the semi-annual reporting period,

- a. number of valves for which leaks were detected as described in Condition 38.7;

- b. number of valves for which leaks were not repaired as required in Condition 38.7a;
  - c. number of pumps for which leaks were detected as described in Condition 38.1;
  - d. number of pumps for which leaks were not repaired as required in Condition 38.1a;
  - e. number of compressors for which leaks were detected as described in Condition 38.2b;
  - f. number of compressors for which leaks were not repaired as required in Condition 38.2b;
  - g. an explanation of each delay of repair and, where appropriate, why a process unit shutdown was technically infeasible;
  - h. number of pressure relief devices for which leaks were detected as described in Condition 38.4b;
  - i. number of pressure relief devices for which leaks were not repaired as required in Conditions 38.4b and 38.4c;
- 40.3 Dates of process unit shutdowns which occurred within the semi-annual reporting period; and
- 40.4 Revisions to items reported in the initial semi-annual report if changes have occurred since the initial report or subsequent revisions to the initial report.

## ***Section 5. General Conditions***

### **Standard Terms and Conditions**

- 41.** 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; 18 AAC 50.345(a) & (e), 11/9/08]

- 42.** 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; 18 AAC 50.345(a) & (f), 11/9/08]

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

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

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

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

- 45. 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 (TPY). The quantity for which fees will be assessed is the lesser of

45.1 the stationary source's assessable potential to emit of 4,076 TPY; or

45.2 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 & 50.346(b)(1), 11/9/08;  
18 AAC 50.410, 6/18/09; 18 AAC 50.420, 01/29/05]  
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

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

46.1 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

46.2 if no estimate is submitted on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit set forth in Condition 45.1.

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

**47. Good Air Pollution Control Practice.** The Permittee shall do the following for EU IDs 10 – 19, 21, 29, 30, 38, 41, and 42:

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

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

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

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

**48. 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]

**49. 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]

49.1 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 49.1 or to address the results of Department inspections that found potential problems; and

- (ii) to prevent future dust problems.

49.2 The Permittee shall report according to Condition 51.

- 50. 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]

- 51. 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]

51.1 Monitoring, Recordkeeping, 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 72.
- 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 51.

51.2 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 51; or
- b. the Department notifies the Permittee that it has found a violation of Condition 51.

51.3 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 51; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

51.4 With each stationary source operating report under Condition 73, 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.

51.5 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.

**52. Technology-Based Emission Standard.** If an unavoidable emergency, malfunction, or non-routine repair, as defined in 18 AAC 50.235(d), causes emissions in excess of a technology-based emission standard<sup>21</sup> listed in Conditions 23, 36, 37, or 54 (refrigerants), the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 72 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 72.

[18 AAC 50.235(a), 10/1/04; 18 AAC 50.040(j)(4), 7/25/08; 18 AAC 50.326(j)(4), 12/1/04]  
[40 C.F.R. 71.6(c)(6), 7/2/07]

**53. 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; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 61, Subparts A & M, & Appendix A, 5/16/07]

**54. 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]

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<sup>21</sup> *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.

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## NESHAPs Applicability Determinations

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

55.1 The Permittee must keep a record of any applicability determination required under 40 C.F.R. 63.10(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 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]

## Halon Prohibitions, 40 C.F.R. 82

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

[18 AAC 50.040(d), 7/25/08]  
[40 C.F.R. 82.174 (b) - (d), 7/1/07]

56.1 The Permittee shall not use a substitute which the Permittee knows or has reason to know was manufactured, processed, or imported in violation of the regulations of 40 C.F.R. 82 Subpart G or knows or has reason to know was manufactured, processed, or imported in violation of any use restriction in the acceptability determination, after the effective date of any rulemaking imposing such restrictions.

56.2 The Permittee shall not use a substitute without adhering to any use restrictions set by the acceptability decision, after the effective date of any rulemaking imposing such restrictions.

56.3 The Permittee shall not use a substitute after the effective date of any rulemaking adding such substitute to the list of unacceptable substitutes.

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

[18 AAC 50.040(d), 7/25/08]  
[40 C.F.R. 82.270 (b)-(f), 7/1/07]

- 57.1 No person testing, maintaining, servicing, repairing, or disposing of halon-containing equipment or using such equipment for technician training may knowingly vent or otherwise release into the environment any halon used in such equipment, as follows:
- a. De minimis releases associated with good faith attempts to recycle or recover halon are not subject to this prohibition.
  - b. Release of residual halon contained in fully discharged total flooding fire extinguishing systems would be considered a de minimis release associated with good faith attempts to recycle or recover halon.
  - c. Release of halon during testing of fire extinguishing systems is not subject to this prohibition if the following four conditions are met:
    - (i) systems or equipment employing suitable alternative fire extinguishing agents are not available;
    - (ii) system or equipment testing requiring release of extinguishing agent is essential to demonstrate system or equipment functionality;
    - (iii) failure of the system or equipment would pose great risk to human safety or the environment; and
    - (iv) a simulant agent cannot be used in place of the halon during system or equipment testing for technical reasons.
  - d. Releases of halon associated with research and development of halon alternatives, and releases of halon necessary during analytical determination of halon purity using established laboratory practices are exempt from this prohibition.
  - e. This prohibition does not apply to qualification and development testing during the design and development process of halon-containing systems or equipment when such tests are essential to demonstrate system or equipment functionality and when a suitable simulant agent cannot be used in place of the halon for technical reasons.
  - f. This prohibition does not apply to the emergency release of halon for the legitimate purpose of fire extinguishing, explosion inertion, or other emergency applications for which the equipment or systems were designed.
- 57.2 Organizations that employ technicians who test, maintain, service, repair or dispose of halon-containing equipment shall take appropriate steps to ensure that technicians hired will be trained regarding halon emissions reduction. Technicians shall be trained regarding halon emissions reduction within 30 days of hiring.

- 57.3 The Permittee shall not dispose of halon- containing equipment except by sending it for halon recovery to a manufacturer operating in accordance with NFPA<sup>22</sup> 10 and NFPA 12A standards, a fire equipment dealer operating in accordance with NFPA 10 and NFPA 12A standards or a recycler operating in accordance with NFPA 10 and NFPA 12A standards. This provision does not apply to ancillary system devices such as electrical detection control components which are not necessary to the safe and secure containment of the halon within the equipment, to fully discharged total flooding systems, or to equipment containing only de minimis quantities of halon.
- 57.4 The Permittee shall not dispose of halon except by sending it for recycling to a recycler operating in accordance with NFPA 10 and NFPA 12A standards, or by arranging for its destruction using one of the following controlled processes:
- a. Liquid injection incineration;
  - b. Reactor cracking;
  - c. Gaseous/fume oxidation;
  - d. Rotary kiln incineration;
  - e. Cement kiln;
  - f. Radio frequency plasma destruction; or
  - g. An EPA-approved destruction technology that achieves a destruction efficiency of 98 percent or greater.
- 57.5 No owner of halon-containing equipment shall allow halon release to occur as a result of failure to maintain such equipment.

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

### Open Burning Requirements

**58. Open Burning.** If the Permittee conducts open burning at this stationary source, the Permittee shall comply with the requirements of 18 AAC 50.065.

58.1 The Permittee shall keep written records to demonstrate that the Permittee complies with the limitations in this condition and the requirements of 18 AAC 50.065. Upon request by the Department, submit copies of the records.

58.2 Compliance with this condition shall be an annual certification conducted under Condition 74.

[18 AAC 50.065, 1/18/97; 18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a)(3), 7/2/07]

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<sup>22</sup> National Fire Protection Association

## ***Section 6. General Source Testing and Monitoring Requirements***

- 59. 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]

- 60. 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]

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

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

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

61.1 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]

61.2 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]

61.3 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]

61.4 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]

61.5 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]

61.6 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]

61.7 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; 18 AAC 50.220(c)(2), 10/1/04]  
[40 C.F.R. 63, Appendix A Method 301, 7/16/17]

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

[18 AAC 50.220(c)(3), 10/1/04; 18 AAC 50.990(102), 7/25/08]

**63. Test Exemption.** The Permittee is not required to comply with Conditions 65, 66 and 67 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]

**64. 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]

**65. Test Plans.** Except as provided in Condition 63, before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the emission unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 59 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]

**66. Test Notification.** Except as provided in Condition 63, 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]

**67. Test Reports.** Except as provided in Condition 63, 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 69. 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**

**68. 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), Subpart A, 7/1/07; 40 C.F.R. 71.6(a)(3)(ii)(B), 7/2/07]

- 68.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
- 68.2 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**

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

- 69.1 The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if
  - a. a certifying authority registered under AS 09.25.510 verifies that the electronic signature is authentic; and

- b. the person providing the electronic signature has made an agreement, with the certifying authority described in Condition 69.1a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.205 & 50.345(a) & (j), 11/9/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 70. 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 69.

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

- 71. 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), 11/9/08; 18 AAC 50.200, 10/1/04; 18 AAC 50.326(a) & (j), 12/1/04]  
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3), 7/2/07]

**72. Excess Emissions and Permit Deviation Reports.**

72.1 Except as provided in Condition 51, 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 72.1c(ii) and 72.1c(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 72.1c(i); and
- (iii) for failure to monitor, as required in other applicable conditions of this permit.

72.2 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.

72.3 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]

**73. Operating Reports.** During the life of this permit<sup>23</sup>, the Permittee shall submit to the Department an original and one copy of an operating report by August 15 for the period January 1 to June 30 of the current year and by February 15 for the period July 1 to December 31 of the previous year.

[18 AAC 50.346(b)(6), 11/9/08; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

73.1 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.

73.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 73.1, 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

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<sup>23</sup> *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.

(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 72, the Permittee may cite the date or dates of those reports.

73.3 The operating report must include a listing of emissions monitored under Conditions 2.1e, 2.2c, and 36.2a, 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.

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

**74. Annual Compliance Certification.** Each year by March 31, the Permittee shall compile and submit to the Department an original and one copy of an annual compliance certification report<sup>24</sup>. The Permittee, at their discretion, may submit one original and one copy in electronic format (PDF or other Department compatible image format).

74.1 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.

74.2 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.

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<sup>24</sup> See Condition 74.2 for clarification on the number of reports required.

74.3 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]

**75. NSPS and NESHAP Reports.** The Permittee shall:

75.1 attach to the operating report required by Condition 73, a copy of any NSPS and NESHAPs reports submitted to the EPA-Region 10; and

75.2 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, recordkeeping, monitoring, performance testing, or reporting requirements.

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

## **Section 8. Permit Changes and Renewal**

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

76.1 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<sup>25</sup>;

76.2 The information shall be submitted to the same address as in Condition 74.3;

76.3 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

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

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

**77. 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; 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(a)(8), 7/2/07]

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

[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]

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

78.2 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;

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

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<sup>25</sup> The documents required in Condition 76.1 are submitted to the Department's Anchorage office. The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501.

78.4 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.

**79. 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 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):

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

79.2 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.

79.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 79.

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

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

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

## ***Section 9. Compliance Requirements***

### **General Compliance Requirements**

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

81.1 included and specifically identified in the permit; or

81.2 determined in writing in the permit to be inapplicable.

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

**82.** 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

82.1 an enforcement action;

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

82.3 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]

**83.** 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]

**84.** 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

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

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

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

84.4 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]

- 85.** For applicable requirements with which the Lisburne Production Center 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 C.F.R. 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 Lisburne Production Center.

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

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

86.2 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) & (ii), 7/2/07]

87. Table C identifies the emission units that are not subject to the specified requirements at the time of permit issuance. If any of the requirements listed in Table 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 C – Permit Shields Granted**

Non-Applicable Requirements	Reason for Non-Applicability
<b>Gas Fired Heaters – 42-1411, 42-1412, 42-1400, 42-1403, 42-1404, 41-1410, 41-1420, 41-1430, 41-1440, 41-1450 &amp; 46-1460</b>	
40 C.F.R. 60 Subpart D – Standards of Performance for Fossil Fuel-Fired Steam Generators	Heat input capacities below threshold (250 MMBtu/hr); and units not classified as “ <i>Fossil-Fuel-Fired Steam Generators</i> ,” as defined in subpart.
40 C.F.R. 60 Subpart Da – Standards of Performance for Electric Utility Steam Generating Units	Heat input capacities below threshold (250 MMBtu/hr); and units not classified as “ <i>Electric Utility Steam Generating Units</i> ,” as defined in subpart.
40 C.F.R. 60 Subpart Db – Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	Heat input capacities below threshold (100 MMBtu/hr).
<b>Gas Fired Heaters – 42-1411 &amp; 42-1412</b>	
40 C.F.R. 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Heat input capacities below threshold (10 MMBtu/hr) and commenced construction prior to effective date of subpart (6/9/89).
<b>Gas Fired Heater – 42-1400</b>	
40 C.F.R. 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Installation of new burners did not make the heater an affected unit for NSPS – no modification or reconstruction occurred. Commenced construction before the applicability date of the subpart.
<b>Gas Fired Heaters – 42-1403, 42-1404, 41-1410, 41-1420, 41-1430, 41-1440 &amp; 41-1450</b>	
40 C.F.R. 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Commenced construction prior to the effective date of subpart (6/9/89).

Non-Applicable Requirements	Reason for Non-Applicability
<b>Gas-Fired Heater – 46-1460</b>	
40 C.F.R. 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units §60.42c through §60.47c, §60.48c(a)(4) through (f) & (h), and §60.8	Standards for SO <sub>2</sub> and PM and related performance tests, monitoring, and reporting requirements are not applicable to the affected source.
§60.48c(a)(2) through (3) – Reporting and Recordkeeping Requirements	The emission unit fires only gas. Therefore, it is not subject to any requirements that limit the annual capacity factor for any fuel or mixture of fuels.
§60.48c(a)(1) and §60.7(a)(1) through (3) – Initial Notification Requirements	Completed as required.
40 C.F.R. 60 Subpart A – General Provisions §60.7(a)(4) – Notification and Recordkeeping	Applies only to “existing facilities”, as defined in 40 C.F.R. 60.2
§60.7(c) & (d) – Excess Emissions Reporting	Apply only to NSPS sources which require the installation of a continuous monitoring system (CMS) or monitoring device, as defined in 40 C.F.R. 60.2, or as required under specific NSPS subparts for periodic monitoring. The affected fuel gas fired heater is not required by Subpart Dc to install a CMS or monitoring device nor are they any applicable emission limits for the fuel gas fired heater to which “excess emissions” could apply.
<b>Fixed Roof Storage Tanks – 42-1909, 42-1926, 42-1900, 42-1920, 42-1915, &amp; 42-1930</b>	
40 C.F.R. 60 Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids	Vessel not storing a petroleum liquid, as defined in subpart; and/or vessel storage capacity below threshold (40,000 gallons); and/or vapor pressure of stored liquid below thresholds; and/or storage prior to custody transfer; and/or commenced construction after effective date (5/19/78), depending upon tank.
40 C.F.R. 60 Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids	Vessel not storing a petroleum liquid, as defined in subpart; and/or vessel storage capacity below thresholds (40,000/420,000 gallons); and/or vapor pressure of stored liquid below thresholds; and/or petroleum or condensate storage prior to custody transfer; and/or commenced construction prior to or after effective dates (5/18/78 – 7/23/84), depending upon tank.
40 C.F.R. 63 Subpart OO - National Emission Standards for Tanks – Level 1	Provisions only apply to tanks affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart OO.
<b>Fixed Roof Storage Tank – 42-1915</b>	
40 C.F.R. 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)	Vessel not storing a volatile organic liquid (VOL) or petroleum liquid, as defined in subpart.
<b>Fixed Roof Storage Tanks – 42-1909 &amp; 42-1926</b>	
40 C.F.R. 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)	Subpart Kb does not apply to vessels with a capacity greater than or equal to 151 cubic meters (39,891 gallons) storing a liquid with a maximum true vapor pressure less than 3.5 kPa (0.5 psia).
<b>Fixed Roof Storage Tanks – 42-1900 &amp; 42-1920</b>	
40 C.F.R. 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels)	In a letter to BPXA dated August 11, 2005, EPA determined that these tanks meet the definition of a process tank in Section 60.111b (as amended 10/15/03).

Non-Applicable Requirements	Reason for Non-Applicability
	Therefore, these vessels are exempt from Subpart Kb.
<b>Gas-Fired Turbines -- 42-1800, 42-1801, 42-1826, 52-1807, 52-1808, 42-0101, 42-0102, 42-0103 &amp; 42-0114</b>	
40 C.F.R. 60 Subpart GG – Standards of Performance for Stationary Gas Turbines §60.332(a)(1) – Standards for NOx	Standard applies to Electric Utility Stationary Gas Turbines as defined in subpart. These units not an Electric Utility Stationary Gas Turbines as defined in Subpart GG.
§60.334(a), (b), (d) – Monitoring of Operations §60.335(b)(4) – Test Methods and Procedures	Applies only to affected turbines equipped with water injection to control emissions of NOx. These units are not equipped with water injection to control emissions of NOx.
§60.334(e), (f) – Monitoring of Operations	Applies only to affected turbines that commence construction after July 8, 2004. Emission units commenced construction prior to this date.
§60.334(g) – Monitoring of Operations	Applies only to affected turbines subject to the continuous monitoring requirement of 40 C.F.R. 60.334(a), (d), or (f).
§60.334(h)(2) – Monitoring of Operations	BPXA has not claimed an allowance for fuel bound nitrogen to calculate the applicable NOx emission limit under 40 C.F.R. 60.332.
40 C.F.R. 60 Subpart A – General Provisions §60.7(a)(1) & (3) – Notification and Recordkeeping (Initial Notification) §60.8(a) Performance Test (Initial Performance Test Only) §60.335(b), (c)(1), (c)(3) – Test Methods and Procedures	Completed as required.
§60.7(a)(4) – Notification and Recordkeeping	This requirement only applies to “existing facilities”, as defined in 40 C.F.R. 60.2.
<b>All Group I Gas Turbines</b>	
40 C.F.R. 60 Subpart KKKK – Standards of Performance for Stationary Combustion Turbines	Construction, modification, or reconstruction of each turbine commenced prior to the applicability date of February 18, 2005. This shield ends when a given Group 1 turbine is modified, reconstructed or replaced.
<b>Natural Gas Processing Plant</b>	
40 C.F.R. 60 Subpart KKK - Standards of performance for equipment leaks of VOC from Onshore Natural Gas Processing Plants [Subpart VV – Standards of Performance for equipment leaks of VOC in SOCM Industry incorporated by reference] §60.482-2(a)(1) – Standards: Pumps in Light Liquid Service §60.482-7(a), (c)(1) – Standards: Valves in Gas/Vapor Service and Light Liquid Service §60.633(b)(1) - Exceptions	Stationary source is exempt from the routine monitoring requirements of these regulations since it is located on the Alaskan North Slope [ref. 40 C.F.R. 60.633(e)].
§60.482-5 – Standards: Sampling Connection Systems	Sampling connection systems are exempt from the requirements of §60.482-5 [ref. 40 C.F.R. 60.633(c)].
§60.632(a) [§60.482-1(a)] – Standards (Initial Inspection) §60.482-10(f)(1)(i) – Standards: Closed Vent Systems and Control Devices (Initial Inspection)	Completed as required.
§60.7(b), (c), and (d) – Notification and Recordkeeping	The requirements of §60.7(b), (c), & (d) do not apply to affected units subject to 40 C.F.R. 60 Subpart VV

Non-Applicable Requirements	Reason for Non-Applicability
	[§60.486(k)] (incorporated by reference in 40 C.F.R. 60 Subpart KKK).
<b>Flares -- 42-2802 (LPC-F1), 42-2803 (LPC-F1), 42-2804 (LPC-F1), 42-2840 (LPC-F2) &amp; 42-2841 (LPC-F2)</b>	
40 C.F.R. 60 Subpart KKK 40 C.F.R. 60 Subpart A – General Provisions §60.18(c)(5) and §60.18(f)(6) - General Control Device Requirements: Exit Velocity Requirements for Air-assisted flares	The flares at this stationary source are not assisted. They are considered non-assisted flares.
<b>Flare -- 42-2842 (LPC-F3)</b>	
40 C.F.R. 60 Subpart A – General provisions §60.18	EPA has determined that the LPC liquid burn pit flare is not subject to 40 C.F.R. 60 Subpart A, §60.18 (ref: EPA Region 10 correspondence dated October 19, 2005).
<b>Drain Systems</b>	
40 C.F.R. 63 Subpart RR – National Emission Standards for Individual Drain Systems	Provisions only apply to drain systems affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart RR.
<b>Oil-Water Separators</b>	
40 C.F.R. 63 Subpart VV – National Emission Standards for Oil- Water Separators and Organic-Water Separators	Provisions only apply to oil-water separators and organic-water separators affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart VV.
<b>Gas Turbines – 42-1800, 42-1801, 42-1826, 52-1807, 52-1808, 42-0101, 42-0102, 42-0103 &amp; 42-0114</b>	
<b>Gas Fired Heaters – 42-1411, 42-1412, 42-1400, 42-1403, 42-1404, 41-1410, 41-1420, 41-1430, 41-1440, 41-1450 &amp; 46-1460</b>	
<b>Liquid Fuel-Fired Equipment – 42-104 (LPC-EDE1), 42-1529 (LPC-EDE2), 42-1589 (LPC-EDE3), 80-808 (L1-EDE6), 80-802 (L2-EDE7), 80-805 (L3-EDE8), 80-806 (L4-EDE9), 80-875 (L5-EDE10), 80-891 (PM1-EDE4), 80-892 (PM2-EDE5), 80-859 (NIK-EDE11), &amp; 80-614</b>	
<b>Flares – 42-2802 (LPC-F1), 42-2803(LPC-F1), 42-2804(LPC-F1), 42-2840(LPC-F2), 42-2841(LPC-F2), &amp; 42-2842 (LPC-F3)</b>	
<b>Fixed Roof Storage Tanks -- 42-1909 &amp; 42-1926</b>	
40 C.F.R. 64 – Compliance Assurance Monitoring	These units do not use a “control device,” as defined in 40 C.F.R. 64, to achieve compliance with any emission limitation or standard.
<b>Glycol Dehydration Unit</b>	
40 C.F.R. 64 – Compliance Assurance Monitoring	This unit does not use a “control device,” as defined in 40 C.F.R. 64, to achieve compliance with any emission limitation or standard. The vapor collection and return system installed to return glycol dehydration unit process vent emissions back to the stationary source’s gas handling system is inherent to the process and is not an “add-on control device”.
<b>Natural Gas Processing Plant</b>	
40 C.F.R. 64 – Compliance Assurance Monitoring	This unit does not have potential pre-control device emissions of an applicable regulated air pollutant equal to or greater than 100 TPY (criteria pollutants), 10 TPY of any hazardous pollutant (HAP), or 25 TPY of all HAPs combined.
<b>Fixed Roof Storage Tanks – 42-1900 &amp; 42-1920</b>	
40 C.F.R. 64 – Compliance Assurance Monitoring	The CAM rule defines control device to include only add-on controls and excludes inherent process

Non-Applicable Requirements	Reason for Non-Applicability
	equipment. The closed vent system for this tank is inherent process equipment which was installed and is operated primarily for material recovery and safety reasons, not for compliance with air quality regulations.
<b>Stationary Source-Wide</b>	
40 C.F.R. 61 Subpart A – General Provisions	Requirements only apply to units subject to any provision of 40 C.F.R. 61.
40 C.F.R. 60 Subpart J – Standards of Performance for Petroleum Refineries 40 C.F.R. 60 Subpart GGG – Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries 40 C.F.R. 60 Subpart QQQ – Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems	Stationary source does not meet the definition for a petroleum refinery.
40 C.F.R. 60 Subpart LLL – Standards of Performance for Onshore Natural Gas Processing Plants: SO <sub>2</sub> emissions	Stationary source does not operate natural gas sweetening unit(s).
40 C.F.R. 61 Subpart J – National Emission Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene	No process components in benzene service, as defined by subpart (10 percent benzene by weight).
40 C.F.R. 61 Subpart M – National Emission Standard for Asbestos §61.142 – Standard for Asbestos Mills	Stationary source is not an Asbestos Mill.
§61.143 – Standard for Roadways	Stationary source roadways not exposed to asbestos tailings or asbestos containing waste.
§61.144 – Standard for Manufacturing	Stationary source does not engage in any manufacturing operations using commercial asbestos.
§61.146 – Standard for Spraying	Stationary source does not spray apply asbestos containing materials.
§61.147 – Standard for Fabricating	Stationary source does not engage in any fabricating operations using commercial asbestos.
§61.148 – Standard for Insulating Materials	Stationary source does not install or reinstall, on any source component, insulation material containing commercial asbestos.
§61.149 – Standard for Waste Disposal for Asbestos Mills	Applies only to those facilities subject to §61.142 (Asbestos Mills).
§61.151 – Standard for Inactive Waste Disposal Sites for Asbestos Mills and Manufacturing and Fabricating Operations	Applies only to those facilities subject to §61.142, 61.144, or 61.147 (Asbestos Mills, manufacturing or fabricating).
§61.152 – Standard for Air-Cleaning	Stationary source does not use air cleaning equipment.
§61.153 – Standard for Reporting	No reporting requirements apply for sources subject to §61.145 (demolition and renovation) [ref §61.153(a)].
§61.154 – Standard for Active Waste Disposal Sites	Stationary source not an active waste disposal site and does not receive asbestos containing waste material.
§61.155 – Standard for Inactive Waste Disposal Sites for Asbestos Mills and Manufacturing and Fabricating Operations	Stationary source does not process regulated asbestos containing material (RACM).
<b>Activities subject to 40 C.F.R. 61 Subpart M – Standard for Demolition and Renovation (§61.145)</b>	
§61.05(a) – Prohibited Activities §61.07 – Application for Approval of Construction or Modification §61.09 – Notification of Startup	Owners or operators of demolition and renovation operations are exempt from the requirements of §61.05(a), 61.07, and 61.09 [ref. 40 C.F.R. 61.145(a)(5)].

Non-Applicable Requirements	Reason for Non-Applicability
§61.10 – Source Reporting and Waiver Request	Demolition and renovation operations exempt from §61.10(a) [ref. 40 C.F.R. 61.153(b)].
§61.13 – Emission Tests §61.14 – Monitoring Requirements	Emission test or monitoring is not required under the standards for demolition and renovation [§61.145].
<b>Stationary Source-Wide</b>	
40 C.F.R. 61 Subpart V – National Emission Standard for Equipment Leaks ( Fugitive Emission Sources)	No process components in volatile hazardous air pollutant (VHAP) service, as defined by subpart (≥10 percent VHAP by weight).
40 C.F.R. 61 Subpart Y – National Emission Standard for Benzene Emissions from Benzene Storage Vessels	Stationary source does not operate storage vessels in benzene service.
40 C.F.R. 61 Subpart BB – National Emission Standard for Benzene emissions from Benzene Transfer Operations	Stationary source does not conduct benzene transfer operations.
40 C.F.R. 61 Subpart FF – National Emission Standard for Benzene Waste Operations	Stationary source does not conduct benzene waste operations.
40 C.F.R. 63 Subpart B – Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Section 112(g) and 112(j)	Stationary source is not a major source of HAPs.
40 C.F.R. 63 Subpart T – National Emission Standards for Halogenated Solvent Cleaning	Stationary source does not operate halogenated solvent cleaning machines.
40 C.F.R. 63 Subpart HH – National Emissions Standards for Oil and Natural Gas Production Facilities	Stationary source is not a major source of HAPs as defined in 40 C.F.R. 63.761.
40 C.F.R. 63 Subpart HHH – National Emission Standards for Natural Gas Transmission and Storage Facilities	Stationary source does not transmit or store natural gas prior to entering the pipeline to a local distribution company or to a final end user.
40 C.F.R. 63 Subpart A – General Provisions [except §63.1(b)]	Requirements only apply to sources subject to any provision of 40 C.F.R. 63. This source is not subject to 40 C.F.R. 63 Subpart A, except for the requirement to determine rule applicability (§63.1(b)) and to keep records of rule applicability determination (§63.10(b)(3)).
40 C.F.R. 68 -Accidental Release Prevention Requirements- Risk Management Programs [§112(r)]	"Naturally occurring hydrocarbon mixtures" (crude oil, condensate, natural gas and produced water) prior to entry into a petroleum refining process unit (NAICS code 32411) or a natural gas processing plant (NAICS code 21112) are exempt from the threshold determination. (See Final Rule exempting from threshold determination regulated flammable substances in naturally occurring hydrocarbon mixtures prior to initial processing, 63 FR 640 [January 6, 1998]). Less than 10,000 lbs. of other mixtures containing regulated flammable substances that meet the criteria for an NFPA rating of 4 for flammability are stored at the source. Therefore, Lisburne Production Center, a crude petroleum and natural gas production facility, (NAICS code 21111) does not process or store regulated flammable or toxic substances in excess of threshold quantities.
40 C.F.R. 82.1 Subpart A – Production and consumption controls	Stationary source does not produce, transform, destroy, import or export Class 1 or Group I or II substances or products.

Non-Applicable Requirements	Reason for Non-Applicability
40 C.F.R. 82.30 Subpart B – Servicing of Motor Vehicle Air Conditioners	Stationary source does not service motor vehicle air conditioners.
40 C.F.R. 82.60 Subpart C – Ban on Nonessential Products containing Class I Substances and Ban on Nonessential Products containing or Manufactured with Class II Substances	Stationary source is not a manufacturer or distributor of Class I and II products or substances.
40 C.F.R. 82.80 Subpart D – Federal Procurement	Subpart applies only to Federal Departments, agencies, and instrumentalities.
40 C.F.R. 82.100 Subpart E – The Labeling of Products Using Ozone-Depleting Substances	Stationary source is not a manufacturer or distributor of Class I and II products or substances.
40 C.F.R. 82.158 Subpart F – Recycling and Emission Reductions	Stationary source does not manufacture or import recovery and recycling equipment.
40 C.F.R. 82.160 Subpart F– Approved Equipment Testing Organizations	Stationary source does not contract equipment testing organizations to certify recovery and recycling equipment.
40 C.F.R. 164 Subpart F – Reclaimer Certification	Stationary source does not sell reclaimed refrigerant.
40 C.F.R. 82 Subpart F, Appendix C – Method for Testing Recovery Devices for Use With Small Appliances	Stationary source is not a third party entity that certifies recovery equipment.
40 C.F.R. 82 Subpart F, Appendix D- Standards for Becoming a Certifying Program for Technicians	Stationary source does not have a technician certification program.
40 C.F.R. 82.174(a) Subpart G – Significant New Alternatives Policy Program	Stationary source does not manufacture substitute chemicals or products for ozone-depleting compounds.
40 C.F.R. 82.270(a) Subpart H – Halon Emissions Reduction	Stationary source does not manufacture halon.
40 C.F.R. 63 Subpart EEEE – National Emissions Standards for Organic Liquid Distribution	Stationary source is not a major source of HAPs.
<b>All Reciprocating IC Engines</b>	
40 C.F.R. 63 Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	All reciprocating internal combustion engines (RICE) in operation at the LPC are emergency RICE and compression ignition (CI) RICE and qualify as existing stationary RICE under 63.6590(a)(1)(iii) because they commenced construction or reconstruction before June 12, 2006 and are located at an area source. Per 63.6590(b)(3), <b>existing</b> emergency RICE and CI stationary RICE are exempt from all requirements of Subpart ZZZZ and A (initial notification is not required).
40 C.F.R. 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	Not affected units (unless modified or reconstructed in the future). These emission units were manufactured prior to April 1, 2006 applicability date (see 40 C.F.R. 60.4200(a)(2)(i)), and have not been modified or reconstructed after July 11, 2005 (see 40 C.F.R. 60.4200(a)(3)).
<b>All Group II Gas Fired Heaters</b>	

Non-Applicable Requirements	Reason for Non-Applicability
40 C.F.R. 63 Subpart DDDDD - National Emissions Standards for Hazardous Air Pollutants for Industrial/Commercial/Institutional Boilers and Process Heaters (except the initial notification requirements of 63.9(b)(2) and 63.7545(b))	The Court of Appeals for the District of Columbia Circuit issued its mandate in NRDC v. EPA, vacating and remanding EPA's CISWI definition rule and boiler rule (Subpart DDDDD). Also, as of November 21, 2007, the State of Alaska is proposing to repeal its adoption of Subpart DDDDD under 18 AAC 50.040(c)(24). In addition, the stationary source is not a major source of HAPs.
<b>All Combustion Turbines</b>	
40 C.F.R. 63 Subpart YYYY - National Emissions Standards for Hazardous Air Pollutants for Stationary Combustion Turbines.	Stationary source is not a major source of HAPs and turbines located on the North Slope of Alaska are categorically exempt from this rule.
<b>All Non Road Engines</b>	
18 AAC 50.055(a)(1) – Fuel Burning Equipment Emission Standards: Visible Emissions 18 AAC 50.055(b)(1) – Fuel Burning Equipment Emission Standards: Particulate Matter 18 AAC 50.055(b)(1) – Fuel Burning Equipment Emission Standards: Sulfur Compound Emissions	Non road (mobile) internal combustion engines are not included in the definition of fuel-burning equipment (18 AAC 50.990).

**Section 11. Visible Emissions Forms**

**Visible Emissions Field Data Sheet**

Certified Observer: \_\_\_\_\_

Company &  
 Stationary Source: \_\_\_\_\_

Location: \_\_\_\_\_

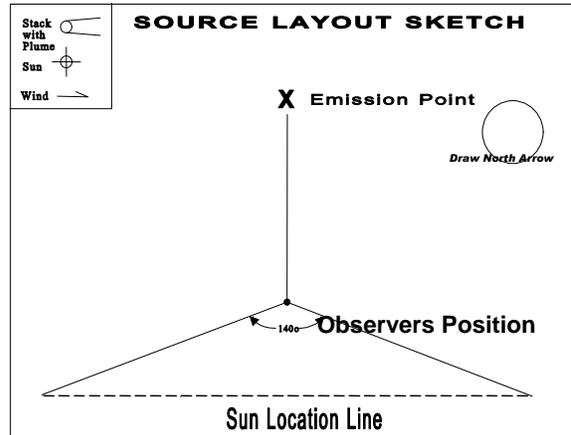
Test No.: \_\_\_\_\_ Date: \_\_\_\_\_

Emission Unit: \_\_\_\_\_

Production Rate/  
 Operating Rate: \_\_\_\_\_

Unit Operating Hours: \_\_\_\_\_

Hours 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. Emission Factors**

Use the emission factors in Table D to calculate the annual emission rates for Condition 20.

**Table D – Emission Factors**

Type of Equipment	NO <sub>x</sub>	SO <sub>2</sub>	CO
<p><b>Gas Turbines EU IDs 1 – 9</b></p>	<p>Use the worst case emission factor at worst case operations for each turbine group based on source test results. If fuel oil consumption is used in calculation, use an AP-42 emission factor.</p>	<p>Material balance based on actual monthly fuel gas H<sub>2</sub>S and liquid fuel sulfur concentrations</p>	<p>Use the worst case emission factor at worst case operations for each turbine group based on source test results. If fuel oil consumption is used in calculation, use an AP-42 emission factor.</p>
<p><b>Gas Heaters EU IDs 10 – 20</b></p>	<p>Representative source test data or AP-42 emission factor.</p>	<p>Material balance based on actual monthly fuel gas H<sub>2</sub>S concentration</p>	<p>Representative source test data or AP-42 emission factor.</p>

[Construction Permit No. 0073-AC061, 2/21/01]  
 [18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04]  
 [40 C.F.R. 71.6(a), 7/2/07]

**Section 13. ADEC Notification Form<sup>26</sup>**

Stationary Source Name \_\_\_\_\_

Air Quality Permit Number \_\_\_\_\_

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.

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

<sup>26</sup> Revised as of August 24, 2006.

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

- 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).

- Emission Unit 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  
 Insignificant Emission Unit  
 Record Keeping Failure  
 Stationary Source  
 Other Section \_\_\_\_\_ (title of section and section number of your permit).

(b) Emission Unit Involved.

EU ID	Unit Name	Permit Condition / Potential Deviation

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

(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](mailto:DEC.AQ.Airreports@alaska.gov) - *if faxed or emailed, the report must be certified within the Operating Report required for the same reporting period per Condition 73.*

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.*