

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AIR QUALITY OPERATING PERMIT

Permit No. AQ0274TVP02

Issue Date: Public Comment Draft - March 4, 2010

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 **Prudhoe Bay Operations Center / Main Construction Camp (PBOC/MCC)**.

The Prudhoe Bay Operations Center (PBOC) and the Main Construction Camp (MCC) along with the Crude Oil Topping Unit (COTU) are considered one stationary source for purposes of determining classification under 18 AAC 50.326(a) and applicability with the modification requirements of 18 AAC 50.302. COTU is permitted to operate under Permit No. AQ0265TVP02.

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

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

Upon effective date of this permit, Operating Permit No. AQ0274TVP01 expires.

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

John F. Kuterbach, Manager
Air Permits Program

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List of Abbreviations Used in this Permit

AAC	Alaska Administrative Code	MR&R....	Monitoring, Recordkeeping, and Reporting
ADEC.....	Alaska Department of Environmental Conservation	NESHAPs	Federal National Emission Standards for Hazardous Air Pollutants [<i>NESHAPs</i> as contained in 40 C.F.R. 61 and 63]
AS	Alaska Statutes	NO _x	Nitrogen Oxides
ASTM	American Society for Testing and Materials	NSPS	Federal New Source Performance Standards [<i>NSPS</i> as contained in 40 C.F.R. 60]
BACT	Best Available Control Technology	O & M....	Operation and Maintenance
BHp	Boiler Horsepower	O ₂	Oxygen
C.F.R.	Code of Federal Regulations	PAL	Plantwide Applicability Limitation
The Act...	Clean Air Act	PM-10	Particulate Matter less than or equal to a nominal ten microns in diameter
CI.....	compression ignition	ppm	Parts per million
CO	Carbon Monoxide	ppmv, ppmvd	Parts per million by volume on a dry basis
dscf.....	Dry standard cubic foot	psia	Pounds per Square Inch (absolute)
EPA.....	US Environmental Protection Agency	PSD	Prevention of Significant Deterioration
EU	Emission Unit	PTE	Potential to Emit
gr./dscf ...	grain per dry standard cubic foot (1 pound = 7000 grains)	RICE	reciprocating internal combustion engine
GPH.....	gallons per hour	SIC.	Standard Industrial Classification
HAPs	Hazardous Air Pollutants [<i>HAPs</i> as defined in AS 46.14.990(14)]	SO ₂	Sulfur dioxide
hp.....	horsepower	TPH.....	Tons per hour
ICE	internal combustion engine	TPY	Tons per year
ID	Emission Unit Identification Number	VOC	volatile organic compound [<i>VOC</i> as defined in 40 C.F.R. 51.100(s)]
ISO	Operating conditions corresponding to sea level and 59 deg F	VOL	volatile organic liquid [<i>VOL</i> as defined in 40 C.F.R. 60.111b, Subpart Kb]
kPa.....	kilopascals	vol%	volume percent
kW.....	kilowatt	wt%	weight percent
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		

Section 1. Stationary Source Information

Identification, Names and Addresses

Permittee:	BP Exploration (Alaska) Inc., 900 E. Benson Boulevard (zip 99508) P.O. Box 196612 Anchorage, AK 99519-6612	
Stationary Source Name:	Prudhoe Bay Operations Center / Main Construction Camp (PBOC/MCC)	
Location:	Section 11, Township 11N, Range 14E, Umiat Meridian	
Physical Address:	Section 11, Township 11N, Range 14E, Umiat Meridian Prudhoe Bay, AK	
Owner:	BP Exploration (Alaska) Inc. 900 E. Benson Blvd (zip 99508) P.O. Box 196612 Anchorage, AK 99519-6612 ConocoPhillips Alaska Inc. 700 G Street (zip 99501) P.O. Box 100360 Anchorage, AK 99510-0360	Chevron USA Inc. 11111 S. Wilcrest (zip 77099) P.O. Box 36366 Houston, TX 77236 ExxonMobil Alaska Production, Inc. 3301 C St., Suite 400 (zip 99503) P.O. Box 196601 Anchorage, AK 99519-6601
Operator:	BP Exploration (Alaska) Inc.	
Permittee's Responsible Official	Arlene Chow, GPB Infrastructure Manager	
Designated Agent:	CT Corporation Systems 9360 Glacier Hwy, Suite 202 Juneau, AK 99801 (907) 586-3340	
Stationary Source and Building Contact:	Randy Burdick Camps and Security Manager (907) 659-5702 nsucamps&securitymanager@bp.com	
Fee Contact:	Rachel Buckbee, Environmental Advisor (907) 564-5363 rachel.buckbee@bp.com	
Permit Contact:	Rachel Buckbee, Environmental Advisor (Same as above)	
Process Description SIC Code: NAICS Code:	1311 – Crude Petroleum and Natural Gas 211111 – Crude Petroleum and Natural Gas Extraction	

[18 AAC 50.040(j)(3), 7/25/08 and 18 AAC 50.326(a), 12/1/04]

[40 C.F.R. 71.5(c)(1) & (2), 7/2/07]

Section 2. Emission Unit Inventory and Description

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

Table A - Emission Units Inventory

EU ID	BPXA Tag Number	Emission unit Description	Rating/size	Installation or Modification Date
1	77-7702-T	Solar Saturn Turbine (Dual Fuel-Fired Emergency Generator), PBOC	900 kW / 1,200 hp ISO	4/21/1970
2	77-7703-T	Solar Saturn Turbine (Dual Fuel-Fired Emergency Generator), PBOC	900 kW / 1,200 hp ISO	4/21/1970
3	77-7704-T	Solar Centaur Turbine (Gas-Fired Emergency Generator), PBOC	2,800 kW / 3,800 hp ISO	10/29/1975
4	90-1601	Cleaver Brooks Gas-Fired Heater, MCC	12.55 MMBtu/hr (heat input) LHV	11/5/1985
5	90-1602	Cleaver Brooks Gas-Fired Heater, MCC	12.55 MMBtu/hr (heat input) LHV	11/5/1985
6	77-7701-E	Diesel-Fired Waukesha Emergency Generator, PBOC	600 kW/ 805 hp	1975
7	90-2883	Diesel-Fired Caterpillar Emergency Generator, MCC	200 kW/ 270 hp	1990 (estimated)
8	77-7705-E	Diesel-Fired GM Detroit Allison Emergency Generator, PBOC	800 kW/ 1,075 hp	1988
9	75-1507-E	Diesel-Fired GM Detroit Allison Emergency Fire Water Pump, PBOC	275 hp	10/1982
10	90-2854	Diesel-Fired EMD Emergency Generator, MCC	2,500 kW / 3,350 hp	1974
11	90-2855	Diesel-Fired EMD Emergency Generator, MCC	2,500 kW / 3,350 hp	1974
12	90-1500-38	Diesel-Fired Cummins Emergency Fire Water Pump, MCC	187 hp	12/1985
13	90-1500-39	Diesel-Fired Clarke Emergency Fire Water Pump, MCC, John Deere Model JU6H-UF34, NFPA	175 hp	02/2010 ¹
20	9401	Diesel-Fired Emergency Electric Generator (Caterpillar 3512DITA) ² , Tarmac Camp, s/n 3YF00469	1,500 kW / 2,167 hp	2/2008
21	74-4901-231	Rapid Engineering Gas-Fired MUA Heater, PBOC ³	4.375 MMBtu/hr (heat input) LHV	1978

Note: EU ID 14 was removed in Application Amendment 2 dated April 28, 2009

[18 AAC 50.326(a), 12/1/04]
 [40 C.F.R. 51.166(b) and 40 C.F.R. 71.5(c)(3), 7/2/07]

¹ EU ID 13 is a 2009 Model Year engine.

² EU ID 20 was permitted on 9/17/2007 in minor permit number AQ0274MSS01. This is a model year 1990 CI-ICE. Therefore, NSPS Subpart IIII is not applicable to this emission unit.

³ EU ID 21 is an existing emission unit that was first identified by the Permittee during preparation of the permit renewal application. The Permittee requested that this emission unit be numbered EU ID 15, however, since EU ID 15 was previously used to identify a tank at this stationary source, the Department has assigned the emission unit to EU ID 21.

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 through 13, 20, and 21 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), 12/3/05 and 18 AAC 50.326(j), 12/1/04; and 18 AAC 50.055(a)(1), 5/3/02]
[40 C.F.R. 71.6(a)(1), 7/1/04]

- 1.1 Perform a visible emissions observation on EU ID 20 within 30 days of completing the installation and initial startup using Method 9 as described in Condition 2.
- 1.2 Record and report on the findings of the Method 9 visible emissions observation completed under Condition 1.1 (for EU ID 20) to the Department in the operating report, as described in Condition 59.
- 1.3 For EU IDs 3 through 5 and 21, burn only gas as fuel. Monitoring for these emission units shall consist of a certification in each operating report under Condition 59 that each of these emission units fired only gas. Report under Condition 58 if any fuel is burned other than gas.
- 1.4 When using liquid fuels exceeding 400 hours per consecutive twelve-month total operating time for any of the following emission units: EU IDs 1, 2, 6 through 13, and 20, monitor, record and report in accordance with Conditions 2 - 4. Otherwise, monitoring shall consist of an annual compliance certification with the opacity standard according to Condition 60.
- 1.5 For each of EU IDs 1 and 2, monitor, record, and report the monthly and the calendar year total hours of operation on liquid fuel each month of the reporting period with the operating report required by Condition 59.
- 1.6 For each of EU IDs 6 through 13, and 20 monitor, record, and report the monthly and the consecutive twelve-month total hours of operation on liquid fuel each month of the reporting period with the operating report required by Condition 59.

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

Visible Emissions Monitoring, Recordkeeping and Reporting

Liquid Fuel-fired Sources (EU IDs 1, 2, 6 through 13, and 20)

- 2. Visible Emissions Monitoring.** When burning liquid fuel, the Permittee shall observe the exhaust of EU IDs 1, 2, 6 through 13, and 20 for visible emissions using the Method 9 Plan under Condition 2.1. The Permittee may elect to continue a 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 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(i), 7/2/07]

- 2.1 **Method 9 Plan.** For all 18-minute observations in this plan, observe 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 EU ID 20, observe exhaust for 18 minutes within six months after the issue date of this permit.
 - b. Second Method 9 Observation. Observe exhaust per Condition 2.1 within 30 days after the end of a calendar month in which the cumulative hours of operation on liquid fuel for the past 12 consecutive months exceed 400 for any of each of EU IDs 1, 2, 6 through 13, and 20, except when an 18-minute Method 9 observation has already been conducted in accordance with Condition 2.1 in the same 12 consecutive month period.
 - c. Third Method 9 Observation. Observe exhaust per Condition 2.1 within 30 days after the end of a calendar month in which the cumulative hours of operation on liquid fuel for the past 12 consecutive month period exceed 800 for any of EU IDs 1, 2, 6 through 13, and 20.
 - d. Increased Method 9 Frequency. If a six-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more observations are greater than 20 percent, then increase or maintain the 18-minute observation frequency for that emission unit to at least monthly intervals, until the criteria in Condition 2.1b for semiannual monitoring are met.

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

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

- 3.1 the observer shall record:
- a. 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;
 - b. 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;
 - c. 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;
 - d. opacity observations to the nearest five percent at 15-second intervals on the Visible Emissions Observation in Section 11, and

e. 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;

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

3.3 calculate and record the highest 18-consecutive-minute averages observed.

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

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

4.1 include in each stationary source operating report under Condition 59

a. for each source under the Method 9 Plan,

(i) copies of the observation results (i.e. opacity observations) for each source 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;

b. a summary of any monitoring or record keeping required under Conditions 2 and 3 that was not done;

4.2 report under Condition 58:

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

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

Particulate Matter Emissions Standards

5. **Industrial Process and Fuel-Burning Equipment Particulate Matter.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 1 through 13, 20, and 21 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

PM Monitoring, Recordkeeping and Reporting

6. **Particulate Matter Monitoring for Gas-Fired Emission Units.** Monitor and report for gas-fired emission units EU IDs 3 through 5 and 21 according to Condition 1.3.

Liquid-Fired Sources (EU IDs 1, 2, 6 through 13, and 20)

7. **Particulate Matter Monitoring for Diesel Engines and Liquid-Fired Turbines.** The Permittee shall conduct source tests on diesel engines and liquid-fired turbines, EU IDs 1, 2, 6 through 13, and 20, to determine the concentration of particulate matter (PM) in the exhaust of a source in accordance with this Condition 7.

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

- 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 test 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 a source 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 average 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 Record Keeping for Diesel Engines and Liquid-Fired Turbines.** Within 180 calendar days after the effective date of this permit, the Permittee shall record the exhaust stack diameter of EU ID 20. Report the stack diameter in the next operating report under Condition 59.

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

- 9. Particulate Matter Reporting for Diesel Engines and Liquid-Fired Turbines.** The Permittee shall report as follows for EU IDs 1, 2, 6 through 13, and 20:

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

9.1 report under Condition 58

- 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;

9.2 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;

9.3 in each stationary source operating report under Condition 59, 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

- 10. Sulfur Compound Emissions.** In accordance with 18 AAC 50.055(c), the Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from EU IDs 1 through 13, 20, and 21 to exceed 500 ppm averaged over three hours.

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

For fuel oil⁴; EU IDs 1, 2, 6 through 13, and 20

- 10.1 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.

⁴ *Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 C.F.R. 60.41b, effective 7/1/03.

- a. The Permittee shall include in the report required by Condition 59 a list of the sulfur content measured for each month covered by the report.
 - b. The Permittee shall report under Condition 58 if the fuel's sulfur content exceeds 0.75 percent and will cause a violation of Condition 10 when using the SO₂ emission calculation results from Section 12. Include those calculations in the report.
- 10.2 For liquid fuel obtained from a third-party supplier that requires a sulfur content less than 0.5 percent by weight, the Permittee shall keep receipts from the supplier that specify fuel grade and amount for each shipment of fuel.
- a. Include in the operating report required by Condition 59 a list of the fuel grades received at the stationary source during the reporting period.

For fuel gas⁵, EU IDs 1 through 5 and 21

- 10.3 The Permittee shall maintain records of the total sulfur content of the fuel gas burned by gas-fired equipment at the PBOC/MCC and shall report the fuel sulfur content to the Department quarterly in the report required by Condition 59. Recordkeeping by the Permittee for the Central Gas Facility, which supplies the fuel gas to the PBOC/MCC, is acceptable and need not be duplicated for this stationary source.
- 10.4 Report under Condition 58 whenever the total sulfur concentration of the fuel gas obtained or analyzed exceeds 4,000 PPM and will cause a violation of Condition 10 when using the SO₂ emission calculation results from Section 12. Include those calculations in the report.
- 10.5 Attach copies of the records required by Condition 10.3 with the operating reports required by Condition 59.

Owner Requested Operating-Hour Limits

- 11.** The Permittee shall not operate EU IDs 1 through 3 and 6 through 13 for more than 500 hours per calendar year, per emission unit.

[Title V Operating Permit AQ0274TVP01, Condition 19, 11/04/02]

- 11.1 The Permittee shall monitor and record the total number of hours of operation that EU IDs 1 through 3 and 6 through 13 operate each month.
- 11.2 The Permittee shall, each month, calculate and record the rolling, total number of hours of operation that each of EU IDs 1 through 3 and 6 through 13 operated for the present calendar year.
- 11.3 Report under Condition 58 whenever the total number of hours that one or more of EU IDs 1 through 3 or 6 through 13 operate in any calendar year exceeds 500 hours, per emission unit.

⁵ *Fuel gas* has the meaning taken as natural gas as defined in 40 C.F.R. 60.41b, effective 7/1/07.

11.4 Report in the operating report, required under Condition 59, the number of hours and the calendar year total that each of EU IDs 1 through 3 and 6 through 13 operates during each month in the calendar year.

12. The Permittee shall limit the total rolling 12-month hours of operation for EU ID 20 to no more than 400 hours.

[Minor Permit No. AQ0274MSS01, Condition 5, 9/17/07]

12.1 The Permittee shall accurately record the monthly operating hours of EU ID 20 and shall calculate the rolling 12-month hours of operation by summing the current month's hours of operation with the previous 11 months for a total of 12 months.

[Minor Permit No. AQ0274MSS01, Condition 6, 9/17/07]

12.2 The Permittee shall maintain records required by Condition 12.1 as described in Condition 54.

[Minor Permit No. AQ0274MSS01, Condition 7, 9/17/07]

12.3 For each month of the reporting period, the Permittee shall include the monthly and rolling 12-month total hours of operation recorded in Condition 12.1 in the operating report required under Condition 59.

[Minor Permit No. AQ0274MSS01, Condition 8, 9/17/07]

12.4 The Permittee shall notify the Department as described in Condition 58 if the rolling 12-month total hours of operation exceed the limit of Condition 12.

[Minor Permit No. AQ0274MSS01, Condition 8, 9/17/07]

Insignificant Emission Units

13. For emission units at the stationary source that are insignificant as defined in 18 AAC 50.326(d)-(i) that are not listed in this permit, the following apply:

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

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

13.2 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]

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

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

13.4 General MR&R for Insignificant Emission Units

a. The Permittee shall submit the compliance certifications of Condition 60 based on reasonable inquiry;

- b. The Permittee shall comply with the requirements of Condition 37;
- c. The Permittee shall report in the operating report required by Condition 59 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.

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

Section 4. Federal Requirements

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

- 14.** NSPS Subpart A Notification. For any affected facility⁶ or existing facility⁷ regulated under NSPS requirements in 40 C.F.R. 60, the Permittee shall furnish the Department and EPA written or electronic notification of:

[18 AAC 50.035 & 50.040(a)(1)]
[40 C.F.R. 60.7(a) & 60.15(d), Subpart A]

- 14.1 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]

- 14.2 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]

- 14.3 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]

- 14.4 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]

- 14.5 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 as soon as practicable, but no less than 60 days before commencement of replacement, and including the following information:

[40 C.F.R. 60.15(d)]

- a. the name and address of owner or operator,

⁶ 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

⁷ 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.

- 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.

15. NSPS Subpart A Startup, Shutdown, & Malfunction Requirements. The Permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of EU ID 13.

[18 AAC 50.040(a)(1)]
[40 C.F.R. 60.7(b), Subpart A]

16. NSPS Subpart A Performance (Source) Tests. The Permittee shall conduct initial source tests according to Section 6 and as indicated in this condition on EU ID 13 or any affected facility within 60 days after achieving the maximum production rate at which the unit will be operated, but not later than 180 days after initial startup, and at such other times as may be required by EPA, and shall provide the Department and EPA with a written report of the results of the source test. The Permittee shall:

[18 AAC 50.040(a)(1)]
[40 C.F.R. 60.8(a), Subpart A]

16.1 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]

16.2 Conduct source tests under conditions specified by EPA to be based on representative performance of EU ID 13.

[40 C.F.R. 60.8(c), Subpart A]

16.3 Notify the Department and EPA at least 30 days in advance of the source test.

[40 C.F.R. 60.8(d), Subpart A]

16.4 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]

- 17. NSPS Subpart A Good Air Pollution Control Practice.** At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU ID 13 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, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of EU ID 13.

[18 AAC 50.040(a)(1)]
[40 C.F.R. 60.11(d), Subpart A]

- 18. 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 Condition 22 nothing in 40 C.F.R. Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU ID 13 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)]
[40 C.F.R. 60.11(g), Subpart A]

- 19. 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 Condition 22. 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)]
[40 C.F.R. 60.12, Subpart A]

Compression Ignition (CI) ICE Subject to NSPS Subpart III

- 20. NSPS Subpart III Requirements.** For EU ID 13 the Permittee shall comply with any applicable requirement for stationary compression ignition (CI) internal combustion engine (ICE) whose construction⁸, modification⁹, or reconstruction¹⁰ commences after July 11, 2005.

- 20.1 Operate and maintain the stationary CI ICE and control device according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer over the entire life of the engine. In addition, the Permittee may only change those settings that are permitted by the manufacturer.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 60.4200(a), 60.4206, & 60.4211(a), 7/11/06]

- 20.2 Comply with the applicable provisions of Subpart A as specified in Table 8 to Subpart III.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 60.4218 & Table 8, 7/11/06]

⁸ For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

⁹ As defined in 18 AAC 50.990(59).

¹⁰ As defined in 18 AAC 50.990(88).

20.3 Notification. The Permittee is not required to submit an initial notification as EU ID 13 is an emergency stationary ICE.

[40 C.F.R. 60.4214(b), 7/11/06]

20.4 Performance Tests. The Permittee shall conduct performance test on EU ID 13 in accordance with 40 C.F.R. 60.4212 for stationary CI ICE with a displacement of less than 30 liters per cylinder.

[40 C.F.R. 60.4212 & 60.4213, 7/11/06]

21. NSPS Subpart III Fuel Requirements. The Permittee shall comply with the following:

21.1 Prior to December 1, 2010, for EU ID 13, refer to 40 C.F.R. Part 69 to determine diesel fuel requirements applicable to EU ID 13.

21.2 Beginning December 1, 2010, for EU ID 13, comply with the applicable fuel requirements in 40 C.F.R. 60.4207, as provided under 40 C.F.R. 60.4216 for engines operated in Alaska, as follows:

- a. For EU ID 13 use diesel fuel that meets the requirements of 40 C.F.R. 80.510(a).
- b. For EU ID 13 use diesel fuel that meets the requirements of 40 C.F.R. 80.510(b) for nonroad diesel fuel.
- c. For pre-2011 model year stationary CI ICE, the Permittee may petition the Administrator for approval to use remaining non-compliant fuel that does not meet the fuel requirements of Conditions 21.1 or 21.2 beyond the date required for the purpose of using up existing fuel inventories. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the Permittee is required to submit a new petition to the Administrator.
- d. For EU ID 13, the Permittee may petition the Administrator for approval to use any fuels mixed with used lubricating oil that do not meet the fuel requirements of Conditions 21.1 or 21.2. The Permittee must demonstrate in the petition to the Administrator that there is no other place to use the lubricating oil. If approved, the petition will be valid for a period of up to 6 months. If additional time is needed, the owner or operator is required to submit a new petition to the Administrator.

[18 AAC 50.040(j)(4) & 50.326(j)]

[40 C.F.R. 60.4207(a) – (d) & 60.4216(a), 7/11/06]

[40 C.F.R. 80.510(a) & (b), Subpart I, 7/15/05]

22. NSPS Subpart III Emission Standards. The Permittee shall comply with the applicable emission standards for EU ID 13, as listed below.

[18 AAC 50.040(j)(4) & 50.326(j)]

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 60.4200(a)(2)(i), Subpart III, 7/11/06]

For Emergency Engines

22.1 For EU ID 13, the Permittee shall comply with the emission standards in Table 4 to NSPS Subpart IIII, for all pollutants.

[40 C.F.R. 60.4205(c) & Table 4, Subpart IIII, 7/11/06]

23. NSPS Subpart IIII Monitoring and Recordkeeping. The Permittee shall meet the monitoring requirements, as follows:

[18 AAC 50.040(j)(4) & 50.326(j)]

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

[40 C.F.R. 60.4209(a) & (b), Subpart IIII, 7/11/06]

23.1 For EU ID 13, install a non-resettable hour meter prior to startup of the engine.

[40 C.F.R. 60.4209(a) & 60.4214(b), Subpart IIII, 7/11/06]

23.2 For EU ID 13, demonstrate compliance according to one of the methods specified below:

- a. Purchasing an engine certified according to 40 C.F.R. Part 89 or 40 C.F.R. Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications;
- b. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Section 6 and these methods must have been followed correctly;
- c. Keeping records of engine manufacturer data indicating compliance with the standards; and
- d. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 C.F.R. 60.4212, as applicable.

[40 C.F.R. 60.4211(b), Subpart IIII, 7/11/06]

23.3 Keep records of the information in sub-Conditions a through d below:

- a. All notifications required in Condition 20.3 and all documentation supporting any notification;
- b. Maintenance conducted on the engine;
- c. If the stationary CI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards; and
- d. If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

[40 C.F.R. 60.4211(b), Subpart IIII, 7/11/06]

24. NSPS Subpart III Reporting. The Permittee shall report in the operating report required by Condition 59 the following:

- 24.1 upon initial startup, provide a copy of the records required in Conditions 31.1.c or 31.1.d in the next operating report;
- 24.2 the method of compliance used to demonstrate compliance with Condition 23.2; and
- 24.3 the records required in Conditions 23.1 and 23.2.

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

Emission Units Subject to Federal National Emission Standards for Hazardous Air Pollutants (NESHAPs)

RICE EU ID 13 Subject to NESHAPS Subpart ZZZZ

25. NESHAPS Subpart A Compliance. For EU ID 13 the Permittee shall comply with the applicable portions of Table 8 to Subpart ZZZZ.

[40 C.F.R. 63.7140, Subpart ZZZZ, 7/16/06]

26. NESHAPS Subpart ZZZZ Compliance. For EU ID 13 the Permittee shall comply with the applicable emissions limitations upon startup by complying with the requirements of 40 CFR 60 Subpart III.

[40 C.F.R. 63.6590(c), Subpart ZZZZ, 7/16/06]

Section 5. General Conditions

Standard Terms and Conditions

- 27.** Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.
[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (e), 11/9/08]
- 28.** The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and re-issuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (f), 11/9/08]
- 29.** The permit does not convey any property rights of any sort, nor any exclusive privilege.
[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (g), 11/9/08]
- 30. 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
and 18 AAC 50.405, 1/29/05]
[AS 37.10.052(b), 11/04 and AS 46.14.240, 6/7/03]
- 31. Assessable Emissions.** The Permittee shall pay to the Department an annual emission fee based on the PBOC/MCC's assessable emissions as determined by the Department under 18 AAC 50.410. The assessable emission fee rate is set out in 18 AAC 50.410(b). The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities greater than 10 tons per year. The quantity for which fees will be assessed is the lesser of
- 31.1 the PBOC/MCC's assessable potential to emit of 210 TPY; or
- 31.2 the PBOC/MCC's projected annual rate of emissions that will occur from July 1 to the following June 30, based upon actual annual emissions emitted during the most recent calendar year or another 12-month period approved in writing by the Department, when demonstrated by
- a. an enforceable test method described in 18 AAC 50.220;
 - b. material balance calculations;
 - c. emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035; or
 - d. other methods and calculations approved by the Department.
- [18 AAC 50.040(j)(3) 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.035
and 18 AAC 50.346(b)(1), 11/9/08; 18 AAC 50.410, 6/18/09;
and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

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

32.1 no later than March 31 of each year, the Permittee may submit an estimate of the PBOC/MCC'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

32.2 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 31.1.

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

33. Good Air Pollution Control Practice. The Permittee shall do the following for EU IDs 1 through 12, 20, and 21):

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

[18 AAC 50.030, 7/25/08; 18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.346(b)(5), 10/1/04]

34. 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]

35. 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 and 18 AAC 50.346(c), 11/9/08]

35.1 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 35.1 or to address the results of Department inspections that found potential problems; and

- (ii) to prevent future dust problems.

35.2 The Permittee shall report according to Condition 37.

- 36. 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]

- 37. 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
and 18 AAC 50.346(a), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

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

- a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 58.
- 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 37.

37.2 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 37; or
- b. the Department notifies the Permittee that it has found a violation of Condition 37.

37.3 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 37; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

37.4 With each stationary source operating report under Condition 59, 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.

37.5 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.

38. 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 standard¹¹ listed in Condition 40 (refrigerants), the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 58 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 58.

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

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

[18 AAC 50.040(b)(1) & (2)(F), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 61, Subparts A & M, and Appendix A, 5/16/07]

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

[18 AAC 50.040(d), 7/25/08 & 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 82, Subpart F, 7/1/07]

NESHAPs Applicability Determinations

41. 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). If a source becomes affected by an applicable subpart of 40 C.F.R. 63, Permittee shall comply with such standard by the compliance date established by the Administrator in the applicable subpart.

¹¹ *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.

- 41.1 The Permittee must keep a record of the applicability determination 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, and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(ii), 7/2/07; and 40 C.F.R. 63.1(b) & 63.6(c)(1), 7/16/07]

Halon Prohibitions, 40 C.F.R. 82

[18 AAC 50.040(d), 7/25/08]
[40 C.F.R. 82.174 (b) - (d), 7/1/07, 40 C.F.R. 82.270 (b)-(f), 7/1/07]

- 42. The Permittee shall comply with the prohibitions set out in 40 C.F.R. 82.174 (Protection of Stratospheric Ozone Subpart G – Significant New Alternatives Policy Program).
- 43. The Permittee shall comply with the prohibitions set out in 40 C.F.R. 82.270.

Open Burning Requirements

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

- 44.1 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.

- 44.2 Compliance with this condition shall be an annual certification conducted under Condition 60.

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

Section 6. General Source Testing and Monitoring Requirements

- 45. 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 and 18 AAC 50.345(a) & (k), 11/9/08]
- 46. 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]
- 46.1 at a point or points that characterize the actual discharge into the ambient air; and
- 46.2 at the maximum rated burning or operating capacity of the source or another rate determined by the Department to characterize the actual discharge into the ambient air.
- 47. Reference Test Methods.** The Permittee shall use the following as reference test methods when conducting source testing for compliance with this permit:
- 47.1 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 and 18 AAC 50.040(a), 7/25/08]
[40 C.F.R. 60, 7/1/07]
- 47.2 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 and 18 AAC 50.220(c)(1)(B), 10/1/04]
[40 C.F.R. 61, 5/16/07]
- 47.3 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, and 18 AAC 50.220(c)(1)(C), 10/1/04]
[40 C.F.R. 63, 7/16/07]
- 47.4 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, and 18 AAC 50.220(c)(1)(D), 10/1/04]
- 47.5 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, and 18 AAC 50.220(c)(1)(E), 10/1/04]
[40 C.F.R. 60, Appendix A, 7/1/07]

47.6 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; and 50.220(c)(1)(F), 10/1/04]
[40 C.F.R. 51, Appendix M, 7/01/07]

47.7 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 and 50.220(c)(2), 10/1/04]
[40 C.F.R. 63, Appendix A, Method 301, 7/16/07]

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

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

49. Test Exemption. The Permittee is not required to comply with Conditions 51, 52, and 53 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.1).

[18 AAC 50.345(a), 11/9/08]

50. 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]

51. Test Plans. Except as provided in Condition 49, before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the source will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 45 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be performed without resubmitting the plan.

[18 AAC 50.345(a) & (m), 11/9/08]

52. Test Notification. Except as provided in Condition 49, 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]

53. Test Reports. Except as provided in Condition 49, 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 55. 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

- 54. 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 and 71.6(a)(3)(ii)(B), 7/2/07]

- 54.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
- 54.2 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

- 55. 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.

- 55.1 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 55.1a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature,

[18 AAC 50.345(a) & (j), 11/9/08; 18 AAC 50.205, 10/1/04; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

56. 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 55.

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

57. 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; and 18 AAC 50.326(a) & (j), 12/1/04]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3), 7/2/07]

58. Excess Emissions and Permit Deviation Reports.

[18 AAC 50.235(a)(2), & 50.240(c), 10/1/04; 18 AAC 50.326(j)(3), 12/1/04
and 18 AAC 50.346(b)(2) & (3), 11/9/08]

58.1 Except as provided in Condition 37, 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 58.1c(ii) and 58.1c(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 58.1c(i); and
 - (iii) for failure to monitor, as required in other applicable conditions of this permit.

58.2 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.

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

59. Operating Reports. During the life of this permit¹², the Permittee shall submit to the Department one original and one copy of an operating report by May 15 for the period January 1 to March 31, by August 15 for the period April 1 to June 30, by November 15 for the period July 1 to September 30, and by February 15 for the period October 1 to December 31 of the previous year. The Permittee, at their discretion, may submit one copy in electronic format (PDF or other Department compatible image format).

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

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

59.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 59.1, either

- a. The Permittee shall identify
 - (i) the date of the deviation;
 - (ii) the equipment involved;
 - (iii) the permit condition affected;
 - (iv) a description of the excess emissions or permit deviation; and
 - (v) any corrective action or preventive measures taken and the date of such actions; or
- b. When excess emissions or permit deviations have already been reported under Condition 58 the Permittee shall cite the date or dates of those reports.

59.3 The operating report must include a listing of emissions monitored under Conditions 2, 6, 11, and 12, 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;

¹² "Life of this permit" is taken to mean 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.

- b. the equipment involved;
- c. the permit condition affected; and
- d. the monitoring result which triggered the additional monitoring.

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

60. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department one original¹³ and one copy of an annual compliance certification report. The Permittee, at their discretion, may submit one copy in electronic format (PDF or other Department compatible image format).

60.1 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;

60.2 **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.

60.3 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; and 50.326(j),12/1/04]
[40 C.F.R. 71.6(c)(5), 7/2/07]

61. NSPS and NESHAP Reports. The Permittee shall:

61.1 attach to the facility operating report required by Condition 59, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and

¹³ See Condition 60.2 for clarification on number of reports required

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

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

Section 8. Permit Changes and Renewal

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

- 62.1 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 ¹⁴;
- 62.2 The information shall be submitted to the same address as in Condition 60.3.
- 62.3 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
- 62.4 The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

[18 AAC 50.040(j)(7), 7/25/08; and 18 AAC 50.326(b) & (j), 12/1/04]
[40 C.F.R. 71.7(a)(1)(i), and 40 CFR 70.10(d)(1), 7/2/07]

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

[18 AAC 50.040(j)(4), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(8), 7/2/07]

64. Off Permit Changes. The Permittee may make changes that are not addressed or prohibited by this permit other than those subject to the requirements of 40 CFR 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 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(12), 7/2/07]

- 64.1 Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 64.2 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;
- 64.3 The change shall not qualify for the shield under 40 CFR 71.6(f);

¹⁴ The documents required in Condition 62.1 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.

64.4 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.

65. 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):

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

65.2 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.

65.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 65.

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

66. 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 CFR 71.7(b) and 71.5(a)(1)(iii).

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

Section 9. Compliance Requirements

General Compliance Requirements

- 67.** Compliance with permit terms and conditions is considered to be compliance with those requirements that are
- 67.1 included and specifically identified in the permit; or
 - 67.2 determined in writing in the permit to be inapplicable.
[18 AAC 50.326(j)(3), 12/1/04; and 18 AAC 50.345(a) & (b), 11/9/08]
- 68.** The Permittee must comply with each permit term and condition.
- 68.1 For applicable requirements with which the PBOC/MCC is in compliance, the Permittee will continue to comply with such requirements.
 - 68.2 Noncompliance with a permit term or condition constitutes a violation of AS 46.14.120(c), 18 AAC 50, and, except for those terms or conditions designated in the permit as not federally enforceable, the Clean Air Act, and is grounds for
 - a. an enforcement action;
 - b. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or
 - c. denial of an operating permit renewal application.
[18 AAC 50.040(j), 7/25/08, 18 AAC 50.326(j), 12/1/04; and 18 AAC 50.345(a) & (c), 11/9/08]
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A), 7/2/07]
- 69.** 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), 10/1/04; and 18 AAC 50.345(a) & (d), 11/9/08]
- 70.** 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
- 70.1 enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
 - 70.2 have access to and copy any records required by the permit;
 - 70.3 inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
 - 70.4 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 and 18 AAC 50.345(a) & (h), 11/9/08]

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 Prudhoe Bay Operations Center / Main Construction Camp (PBOC/MCC).

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

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

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

[18 AAC 50.326(j), 12/1/04]
 [40 C.F.R. 71.6(f)(3)(i) and (ii), 7/2/07]

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

[18 AAC 50.326(j), 12/1/04]
 [40 C.F.R. 71.6(f)(1)(ii), 7/2/07]

Table B - Permit Shields Granted.

Emission Unit(s)	Non-Applicable Requirements	Reason for non-applicability
All Gas-Fired Heaters: 90-1601 90-1602 74-4901-231	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).
	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/or commenced construction prior to effective date of subpart (6/10/89).

Emission Unit(s)	Non-Applicable Requirements	Reason for non-applicability
All Storage Tanks: 75-125 75-1901 90-1906 90-1907 90-1908 90-1909 90-1932 90-939 90-940 94-1901	40 C. F. R. 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids	Vessel not storing a <i>petroleum liquid</i> , as defined in subpart; <u>and/or</u> vessel storage capacity below threshold (40,000 gallons); <u>and/or</u> vapor pressure of stored liquid below thresholds; <u>and/or</u> storage prior to custody transfer; <u>and/or</u> commenced construction after effective date of subpart (5/19/78), <u>depending upon tank</u> .
All Storage Tanks: 75-125 75-1901 90-1906 90-1907 90-1908 90-1909 90-1932 90-939 90-940 94-1901	40 C. F. R. 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids	Vessel not storing a <i>petroleum liquid</i> , as defined in subpart; <u>and/or</u> vessel storage capacity below thresholds (40,000/420,000 gallons); <u>and/or</u> vapor pressure of stored liquid below thresholds; <u>and/or</u> petroleum or condensate storage prior to custody transfer; <u>and/or</u> commenced construction prior to or after effective dates of subpart (5/18/78 - 7/23/84), <u>depending upon tank</u> .
Storage Tanks: 75-125 75-1901 90-1906 90-1907 90-1908 90-1909 90-1932	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 <i>volatile organic liquid (VOL)</i> or <i>petroleum liquid</i> , as defined in subpart; <u>and/or</u> vessel storage capacity below thresholds; <u>and/or</u> vapor pressure of stored liquid below thresholds; <u>and/or</u> storage prior to custody transfer; <u>and/or</u> commenced construction prior to effective date of subpart (7/23/84), <u>depending upon tank</u> .
Storage Tanks: 90-939	40 C. F. R. 60 Subpart Kb	Subpart Kb does not apply to storage vessels at gasoline service stations [§60.110b(d)(6)].
Storage Tanks: 90-1901	40 C. F. R. 60 Subpart Kb	Subpart Kb does not apply to storage vessels with a capacity less than 75m ³
Storage Tanks: 90-940	40 C. F. R. 60 Subpart Kb	Subpart Kb does not apply to vessels with a capacity greater than or equal to 75 m ³ but less than 151 m ³ storing a liquid with a maximum true vapor pressure less than 15 kPa (2.18 psia).

Emission Unit(s)	Non-Applicable Requirements	Reason for non-applicability
All Gas Turbines: 77-7702-T 77-7703-T 77-7704-T	40 C. F. R. 60 Subpart GG - Standards of Performance for Stationary Gas Turbines	Commenced construction prior to effective date of subpart (10/3/77).
Stationary Source-Wide	40 C. F. R. 60 Subpart XX - Standards of Performance for Bulk Gasoline Terminals	Stationary source does not operate a bulk gasoline terminal as defined by 40 C. F. R. 60 Subpart XX.
All Stationary CI Engines 75-1507-E 77-7701-E 77-7705-E 90-1500-38 90-2854 90-2855 90-2883 9401	40 C. F. R. 60 Subpart IIII- Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	Construction , modification, or reconstruction of each IC engine commenced prior to the applicability date of July 11, 2005 and /or each IC engine was manufactured prior to April 1, 2006. The permit shield applies to individual currently installed units until modified, reconstructed or replaced .
All Gas Turbines: 77-7702-T 77-7703-T 77-7704-T	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. The permit shield applies to currently installed units until modified, reconstructed or replaced
Stationary Source-Wide	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 stationary source component, insulation material containing commercial asbestos.
Stationary Source - Wide	§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 stationary sources subject to §61.142, 61.144, or 61.147 (Asbestos Mills, manufacturing or fabricating).

Emission Unit(s)	Non-Applicable Requirements	Reason for non-applicability
	§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).
Activities subject to 40 C. F. R. 61 Subpart M - Standard for Demolition and Renovation (§61.145)	40 C. F. R. 61 Subpart A - General Provisions §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)].
	§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 tests or monitoring is not required under the standards for demolition and renovation [§61.145].
Stationary Source-Wide	40 C. F. R. 63 Subpart A - General Provisions, except §63.1(b)	Requirements only apply to stationary sources subject to any provision of 40 C. F. R. 63. This stationary source is not subject to 40 C. F. R. 63 Subpart A, except for the requirement to determine rule applicability (§63.1(b)).
Stationary Source-Wide	40 C. F. R. 63 Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations)	Stationary source does not operate a bulk gasoline terminal as defined by 40 C. F. R. 60 Subpart XX and referenced in 40 C. F. R. 63 Subpart R.
Stationary Source - Wide	40 C. F. R. 63 Subpart T - National Emission Standards for Halogenated Solvent Cleaning	Stationary source does not operate halogenated solvent cleaning machines.
All Storage Tanks: 75-125 75-1901 90-1906 90-1907 90-1908 90-1909 90-1932 90-939 90-940 94-1901	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.

Emission Unit(s)	Non-Applicable Requirements	Reason for non-applicability
All Gas Turbines: 77-7702-T 77-7703-T 77-7704-T	40 C. F. R. 63 Subpart YYYY – National Emission Standards for Hazardous Air Pollutants for Stationary Combustion Turbines	PBOC/MCC is not a major source of HAPs. In addition, turbines located on the North Slope of Alaska are categorically exempt from 40 C. F. R. 63 Subpart YYYY.
All Stationary CI Engines: 75-1507-E 77-7701-E 77-7705-E 90-1500-38 90-2854 90-2855 90-2883 9401	40 C. F. R 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines	These listed stationary RICE at PBOC/MCC are existing sources and currently there are no standards for existing engines as of the date of permit issuance .
All Gas-Fired Heaters 90-1601 90-1602 74-4901-231	40 C. F. R. 63 Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers and Process Heaters	PBOC/COTU and MCC are not major sources of HAP. Note: this subpart was vacated and remanded in the July 30, 2007 NRDC vs. EPA case before the DC Circuit Court of Appeals. The State of Alaska air quality rules in 18 AAC 50 no longer adopt 40 C.F.R. 63 Subpart DDDDD.
Stationary Source-Wide	40 C. F. R. 64 - Compliance Assurance Monitoring	Stationary source does not use a control device to achieve compliance with any emission limitation or standard.
Stationary Source - Wide	40 C. F. R. 68 - Accidental Release Prevention Requirements: Risk Management Programs [§112(r)]	No mixtures containing regulated flammable substances are stored at the stationary source that meet the criteria for an NFPA rating of 4 for flammability. Therefore, all materials stored at the stationary source are exempt from the threshold determination.
Stationary Source - Wide	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.
	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	Stationary source does not manufacture or

Emission Unit(s)	Non-Applicable Requirements	Reason for non-applicability
	and Emissions Reduction	import recovery and recycling equipment.
	40 C. F. R. 82.160 – Approved Equipment Testing Organizations	Stationary source does not contract equipment testing organizations to certify recovery and recycling equipment.
	40 C. F. R. 82.164 – 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: Prohibitions	Stationary source does not manufacture substitute chemicals or products for ozone-depleting compounds.
Stationary Source - Wide	40 C. F. R. 82.270(a) Subpart H - Halon Emissions Reduction	Stationary source does not manufacture halon.
All Non-road Engines	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(c) – Fuel-Burning Equipment Emission Standards: Sulfur Compound Emissions	Nonroad (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: _____

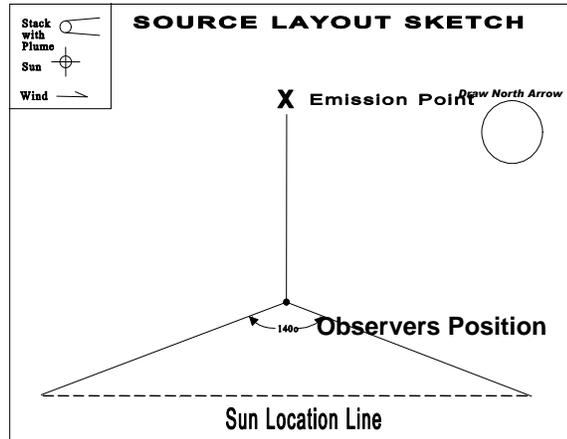
Test No.: _____ Date: _____

Emission Unit: _____

Production Rate/Operating
 Rate: _____

Unit Operating Hours: _____

Hrs. of observation: _____



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

Section 12. Material Balance Calculation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

(f) Unavoidable Emissions:

- Do you intend to assert that these excess emissions were unavoidable?
 Yes No
Do you intend to assert the affirmative defense of 18 AAC 50.235?
 Yes No

Certify Report (Go to end of form.)

Section 2. Permit Deviations

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

- Emission Unit-Specific Generally Applicable Requirements
 Failure to Monitor/Report Reporting/Monitoring for Diesel Engines
 General Source Test/Monitoring Requirements Recordkeeping Failure
 Recording/Reporting/Compliance Certification Insignificant Emission Unit
 Standard Conditions Not Included in the Permit Stationary Source Wide

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

(b) Emission Unit Involved:

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

<u>EU ID</u>	<u>EU Name</u>	<u>Permit Condition/ Potential Deviation</u>

(c) Description of Potential Deviation:

Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation.

(d) Corrective Actions:

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence.

Certification:

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

Printed Name: _____ Title: _____ Date: _____
Signature: _____ Phone Number: _____

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

To Submit this Report:

Fax to: 907-451-2187

Or

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

If faxed or emailed, the report must be certified within the Operating Report required for the same reporting period per Condition 55.

Or

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

Or

Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

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

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

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

[18 AAC 50.346(b)(3)]