

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

Permit No. AQ0241TVP03

Issue Date: Public Comment Draft - July 15, 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, **Alyeska Seafoods, Inc.**, for the operation of the **Unalaska Seafood Processing Facility**.

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. AQ0241TVP02 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	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	NFPA.....	National Fire Protection Assoc.
ASTM .....	American Society for Testing and Materials	NO <sub>x</sub> .....	Nitrogen Oxides
BACT.....	Best Available Control Technology	NSPS .....	Federal New Source Performance Standards [ <i>NSPS</i> as contained in 40 C.F.R. 60]
BHp.....	Boiler Horsepower	O & M .....	Operation and Maintenance
CEMS .....	Continuous Emission Monitoring System	O <sub>2</sub> .....	Oxygen
CET.....	Cummulative Equivalent Total	PAL .....	Plantwide Applicability Limitation
CMS.....	Continuous Monitoring System	PM-10.....	Particulate Matter less than or equal to a nominal ten microns in diameter
C.F.R.....	Code of Federal Regulations	ppm .....	Parts per million
The Act .....	Clean Air Act	ppmv, ppmvd	Parts per million by volume on a dry basis
CI ICE.....	Combustion Ignition Internal Combustion Engine	psia .....	Pounds per Square Inch (absolute)
CO.....	Carbon Monoxide	PSD.....	Prevention of Significant Deterioration
dscf.....	Dry standard cubic foot	PTE.....	Potential to Emit
EPA.....	US Environmental Protection Agency	RICE.....	Reciprocating Internal Combustion Engine
EU .....	Emission Unit	SIC.....	Standard Industrial Classification
gr./dscf .....	grain per dry standard cubic foot (1 pound = 7000 grains)	SO <sub>2</sub> .....	Sulfur dioxide
GPH .....	gallons per hour	TPH .....	Tons per hour
HAPs.....	Hazardous Air Pollutants [ <i>HAPs</i> as defined in AS 46.14.990]	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)]
kPa .....	kiloPascals	VOL.....	volatile organic liquid [ <i>VOL</i> as defined in 40 C.F.R. 60.111b, Subpart Kb]
LAER.....	Lowest Achievable Emission Rate	vol% .....	volume percent
MACT.....	Maximum Achievable Control Technology as defined in 40 C.F.R. 63.	wt%.....	weight percent
MMBtu/hr.	Million British thermal units per hour		
MMSCF....	Million standard cubic feet		

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

### **Identification**

#### **Names and Addresses**

Permittee: **Alyeska Seafoods, Inc.**  
P.O. Box 31359  
Seattle, WA 98103

Stationary Source Name: **Unalaska Seafood Processing Facility**

Location: 53.68° North; 166.32° West

Physical Address: 551 West Broadway  
P.O. Box 530  
Unalaska, AK 99685-0530

Owner: Alyeska Seafoods, Inc.  
P.O. Box 31359  
Seattle, WA 98103-1359

Operator: Alyeska Seafoods, Inc.  
P.O. Box 31359  
Seattle, WA 98103-1359

Permittee's Responsible Official Mr. Sinclair Wilt and Mr. Alec Brindle  
P.O. Box 31359  
Seattle, WA 98103-1359

Designated Agent: Hicks, Boyd, Chandler, and Falconer  
825 W. 8th Avenue, Suite 200  
Anchorage, AK 99501

Stationary Source  
and Building Contact: Mr. Greg Peters  
P.O. Box 530  
Unalaska, AK 99685-0530  
(907) 581-7543

Fee Contact: Mr. Greg Peters  
P.O. Box 530  
Unalaska, AK 99685-0530  
(907) 581-7543

### **Process Description**

SIC Code: 2092 - Prepared fresh or frozen fish and seafoods

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

**Section 2. Emission Unit Inventory and Description**

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

**Table A - Emission Units Inventory**

EU ID	Emission Unit Name	Emission Unit Description	Rating/Size	Install Date
1	Caterpillar Model D-398, SN 66B04976	Diesel Generator	500 kW	Pre 1986
2	Caterpillar Model D-398, SN 67B1435	Diesel Generator	500 kW	Pre 1986
3	Caterpillar Model D-398, SN 66B06111	Diesel Generator	500 kW	Pre 1986
4a	Caterpillar Model D-3508C – DITA, SN LLC00200	Diesel Generator	682 kW/ 915 bhp <sup>1</sup>	2009
5	Caterpillar Model D-3606, SN 8RB00312	Diesel Generator	1,500 kW	1987
6	Caterpillar Model D-3608, SN 6MC0281	Diesel Generator	2,000 kW	1990
7	York Shipley Model SPH-350N5-153000, SN 77116660H70836	Steam Boiler	350 bhp <sup>2</sup>	Pre 1986
8	Seattle Boiler Works Model HPFWB – 1650 Four Pass Wet Back Boiler w/ ST Johnson Model FT98 Low NO <sub>x</sub> Burner, SN L90600	Steam Boiler	9.7 MMBtu/hr	2000
9	Seattle Boiler Works Model HPT – 1650, SN L50972	Steam Boiler	300 bhp <sup>2</sup>	1990
10	Kewanee Model H3S-200-GO6, SN 5801	Steam Boiler	200 bhp <sup>2</sup>	1990
11	Sword Int'l Dyno Jet Hot Air Dryer Model SIDJ- 4.5 w/ Ray Rotary Burner Model BGE- 700, SN 167225	Fish Meal Dryer	24.1 MMBtu/hr	1990

Table Notes: 1 - bhp = brake horsepower  
 2 - bhp = boiler horsepower

Comment: EU ID 4 (Caterpillar Model D-398, SN 67B1422) was noted as removed in the July 1- Dec 31, 2009 operating report.

[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 comply with the following:

1.1 Do not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1 – 3, 4a, or 5 – 11 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

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

1.2 For EU IDs 1 – 3, 4a, and 5 – 11, monitor, record and report in accordance with Conditions 2 - 4.

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

#### **Visible Emissions Monitoring, Recordkeeping and Reporting**

##### *Liquid Fuel-fired Sources (EU IDs 1 – 3, 4a, and 5 – 11)*

**2. Visible Emissions Monitoring.** The Permittee shall observe the exhaust of EU IDs 1 – 3, 4a, and 5 – 11, 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 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(s) 1 – 3, 4a, and 5 – 11, observe exhaust for 18 minutes within six months after the issue date of this permit. 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, perform 18-minute observations at least semiannually.

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, perform 18-minute observations 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 source within 24 hours of the observation;
- b. keep a written record of the starting date, the completion date, and a description of the actions taken to reduce smoke; and
- c. after completing the actions required under Condition 2.3a,
  - (i) take Smoke/No Smoke observations in accordance with Condition 2.2.
    - (A) at least once per day for the next seven operating days and until the initial 30 day observation period is completed; and
    - (B) continue as described in Condition 2.2b; or

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

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

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

3.1 When using the Method 9 Plan of Condition 2.1,

- a. the observer shall record
  - (i) the name of the stationary source, emission unit and location, emission unit type, observer's name and affiliation, and the date on the Visible Emissions Field Data Sheet in Section 11;
  - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating 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 source observed;
- c. whether visible emissions are present or absent in the exhaust;
- d. a description of the background to the exhaust during the observation;
- e. if the source starts operation on the day of the observation, the startup time of the source;
- f. name and title of the person making the observation; and
- g. operating rate (load or fuel consumption rate).

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

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

- 4.1 in each stationary source operating report under Condition 75, include for the period covered by the report:
  - a. which visible-emissions plan of Condition 2 was used for each emission unit; if more than one plan was used, give the time periods covered by each plan;
  - b. for each emission unit under the Method 9 Plan,
    - (i) copies of the observation results (i.e. opacity observations) for each emission unit that used the Method 9 Plan, except for the observations the Permittee has already supplied to the Department; and
    - (ii) a summary to include:
      - (A) number of days observations were made;
      - (B) highest six-minute average observed; and
      - (C) dates when one or more observed six-minute averages were greater than 20 percent;
  - c. for each emission unit under the Smoke/No Smoke Plan, the number of days that Smoke/No Smoke observations were made and which days, if any, that smoke was observed; and
  - d. a summary of any monitoring or record keeping required under Conditions 2 and 3 that was not done;
- 4.2 report under Condition 74:
  - a. the results of Method 9 observations that exceed an average of 20 percent opacity for any six-minute period; and
  - b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.

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

## 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 – 3, 4a, or 5 – 11 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

- 5.1 For EU IDs 1 – 3, 4a, 5 and 6, monitor, record and report in accordance with Conditions 6 - 7.

- 5.2 For EU IDs 7 – 11, monitor, record and report in accordance with Conditions 8 - 10.

[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]

## PM Monitoring, Recordkeeping and Reporting

### *For Diesel Engines*

### *Liquid Fuel-fired Sources (EU IDs 1 – 3, 4a, 5 and 6)*

- 6. Particulate Matter Monitoring for Diesel Engines.** The Permittee shall conduct source tests on diesel engines and liquid-fired turbines, 1 – 3, 4a, 5, and 6 to determine the concentration of particulate matter (PM) in the exhaust of a source in accordance with this Condition 6.

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

- 6.1 Except as provided in Condition 6.4 within six months of exceeding the criteria of Conditions 6.2a or 6.2b, 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 6.2; to show that emissions are below those criteria, observe emissions as described in Condition 2.1 under load conditions comparable to those when the criteria were exceeded.
- 6.2 Conduct the test according to Condition 6.1 if
- a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or
  - b. for an emission unit with an exhaust stack diameter that is less than 18 inches, 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity that is greater than 15 percent and not more than 20 percent, unless the Department has waived this requirement in writing.

- 6.3 During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the average opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.
- 6.4 The automatic PM source test requirement in Conditions 6.1 and 6.2 is waived for an emissions unit if a PM source test on that unit has shown compliance with the PM standard during this permit term.
- 7. Particulate Matter Reporting for Diesel Engines.** The Permittee shall report as follows:  
[18 AAC 50.040(j), 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]
- 7.1 report under Condition 74
- a. the results of any PM source test that exceeds the PM emissions limit; or
  - b. if one of the criteria of Condition 6.2 was exceeded and the Permittee did not comply with either Condition 6.1a or 6.1b, this must be reported by the day following the day compliance with Condition 6.1 was required;
- 7.2 report observations in excess of the threshold of Condition 6.2b within 30 days of the end of the month in which the observations occur;
- 7.3 in each operating report under Condition 75, include for the period covered by the report:
- a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 6.2;
  - b. a summary of the results of any PM testing under Condition 6; and
  - c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 6.2, if they were not already submitted.

*For Liquid-Fired Boilers and Heaters*

*Liquid Fuel-fired Sources (EU IDs 7 – 11)*

- 8. Particulate Matter Monitoring.** The Permittee shall conduct source tests on EU IDs 7 - 11 to determine the concentration of PM in the exhaust as follows:  
[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]  
[40 C.F.R. 71.6(a)(3)(i) & (c)(6), 7/2/07]
- 8.1 Conduct a PM source test according to the requirements set out in Section 6 no later than 90 calendar days after any time corrective maintenance fails to eliminate visible emissions greater than the 20 percent opacity threshold listed in Condition 1.1 for two or more 18-minute observations in a consecutive six-month period.

- 8.2 During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the average opacity that was measured during each one-hour test run.
- 8.3 The PM source test requirement in Condition 8 is waived for an emission unit if:
- a PM source test during the most recent semiannual reporting period on that unit shows compliance with the PM standard since permit issuance, or
  - if a follow-up visible emission observation conducted using Method-9 during the 90 days shows that the excess visible emissions described in Condition 2.1e no longer occur.

**9. Particulate Matter Recordkeeping.** The Permittee shall keep records of the results of any PM testing and visible emissions observations conducted under Condition 8.

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

**10. Particulate Matter Reporting.** The Permittee shall report as follows:

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

10.1 In each operating report required by Condition 75, include

- the dates, EU ID(s), and results when an 18-minute opacity observation was greater than the applicable threshold criterion in Condition 1.1.
- a summary of the results of any PM testing and visible emissions observations conducted under Condition 8.

10.2 Report as excess emissions, in accordance with Condition 74, any time the results of a source test for PM exceeds the PM emission limit stated in Condition 5.

10.3 For the meal dryer, EU ID 11, monitor and report as set forth in Condition 53.

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

**Sulfur Compound Emission Standards Requirements**

**11. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from EU IDs 1 – 3, 4a, or 5 - 11 to exceed 500 ppm averaged over three hours.

[18 AAC 50.040(j) & 18 AAC 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; 40 C.F.R. 71.2 and 71.6(a)(1&3), 7/2/07]

*For fuel oil<sup>1</sup>: EU ID(s) 1 – 3 and 5 - 11*

11.1 Use fuel with a sulfur content no more than 0.1 percent by weight.

[Permit No. 9625-AA006, Condition 1 & Exhibit B, Part 1, 10/29/96]

<sup>1</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.

*For NR<sup>2</sup> fuel oil, EU ID 4a*

- 11.2 For EU ID 41, use fuel oil that complies with Condition 22.
- 11.3 Upon receiving a shipment of fuel, obtain a statement or receipt from the supplier showing the sulfur content of the shipment. If a statement is not available from the supplier, analyze a representative sample of the fuel to determine the sulfur content using an approved ASTM method such as ASTM D975-84, D3120-92, D4152-90, D2622-91 and ASTM 396-92.
- 11.4 Upon receiving a shipment of fuel, calculate the fuel sulfur content of the stored fuel in the tanks at the stationary source, as follows:
- Before loading fuel into a storage tank, measure and record the quantity of fuel ( $V_T$ ) remaining in the storage tank.
  - Record the amount of fuel received in the shipment ( $V_S$ ).
  - Calculate and record the average sulfur content of the fuel in the tank using the following equation:

$$Wt\%S = \frac{[(S_s \times V_s) + (S_T \times V_T)]}{(V_S + V_T)}$$

where:

Wt % S = the average sulfur content of the stored fuel after delivery.  
 $V_T$  = gallons of fuel in tank before delivery (recorded under Condition 11.4).  
 $S_s$  = sulfur content of the fuel delivery (recorded under Condition 11.3 or 11.7a).  
 $V_s$  = gallons of fuel delivered (recorded under Condition 11.4a).  
 $S_T$  = sulfur content of fuel in tank before delivery (from previous calculation).

- 11.5 Report in accordance with Condition 74 whenever the fuel sulfur content calculated in Condition 11.4c does not meet the requirements of Condition 11.1. When reporting under this condition, if the fuel sulfur content is greater than 0.75% by weight include a calculation of the sulfur compound emissions, in ppm, expected to result from burning this fuel using the equations in Section 12 with the sulfur content from Condition 11.4c.
- 11.6 Include in the Operating Report required by Condition 75:
- a list of the sulfur content of each shipment of fuel received at the stationary source during the reporting period, and
  - a list of the sulfur content in the tank after each shipment determined under Condition 11.5.

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<sup>2</sup> NR means Non-road diesel fuel in 40 CFR 80.2(ooo).

11.7 **Used Oil.** The Permittee may burn used oil blends in the boilers, EU IDs 7 through 10, as follows<sup>3</sup>:

[18 AAC 50.326(a), 10/1/04]  
[40 C.F.R. 71.2 and 71.6(a)(1 & 3), 7/1/03]  
[Permit No. 9625-AA006, Exhibit B Part I, Section 3, 10/29/96]

- a. Analyze each batch of used oil to determine the sulfur content using an approved ASTM method such as ASTM D975-84, D3120-92, D4152-90, D2622-91 and ASTM 396-92. Maintain records showing the results of each analysis.
- b. Blend the used oil with virgin oil at a ratio that will ensure compliance with the sulfur limit of Condition 15.2. However, the used oil blend shall be mixed at a ratio of no more than 1 part used oil with 6 parts virgin oil, unless the Permittee provides a Department approved demonstration that a greater ratio will comply with the limit in Condition 5.
- c. Account for the consumption of the used oil blend as set out according to Conditions 11 and 15.
- d. Include with the Operating Report required by Condition 75:
  - (i) Results of each analysis as set out by Condition 11.7a; and
  - (ii) For each batch of used oil blended, the amounts of virgin oil and used oil; the blend ratio; and the final sulfur content.
- e. Report as set out by Condition 74 any time the blend ratio or other requirements deviate from Conditions 11.7a to 11.7d.

### Stationary Source-wide and Ambient Air Quality Conditions

12. **NO<sub>x</sub> PSD Avoidance Limits.** The Permittee shall not allow the engines (EU IDs 1 - 3, 4a, 5, and 6, combined, shown in Table 1) to emit more than 273 tons of NO<sub>x</sub> per 12 consecutive months, and shall not allow the boilers and dryer (EU IDs 7, 8, 9, 10, and 11 combined, shown in Table 1) to emit more than 19.2 tons of NO<sub>x</sub> per 12 consecutive months.

[Construction Permit No. 241CP03, 2/9/05]  
[18 AAC 50.326(a), 10/1/04]  
[40 C.F.R. 71.2 and 71.6(a)(1 & 3), 7/1/03]

12.1 Track fuel consumption for each of EU IDs 1 – 3, 4a, and 5 – 11, shown in Table A, using either Condition 12.1a or 12.1b.

- a. Maintain and operate in good working order a continuous system for recording and monitoring all fuels consumed in each unit. Calculate and record the total fuel consumed in each unit, each month at a consistent time.

<sup>3</sup> CAUTION! Although this condition should ensure compliance with the applicable emission standards of 18 AAC 50, this permit does NOT ensure compliance with other applicable state or federal laws concerning management, use, or disposal of used oil.

- b. Record hours of operation daily, and calculate and record all fuels consumed in each unit, each month using hours of operation and maximum fuel consumption rates shown in **Table B**.

**Table B - Maximum Fuel Consumption Rates**

Unit ID	Maximum Fuel Consumption Rate (gal/hr)
1 – 3	56.5 for each unit
4a	44.0
5	91.8
6	125.4
7	106.9
8	71
9	91.6
10	50.9
11	175

12.2 For EU IDs 1 – 3, 4a, 5 and 6:

- a. Do not exceed a CET fuel limit of 1,440,700 gallons per 12 consecutive months. By the 15th of each month, calculate the CET for the engines using Equation 1.

**Equation 1:**  $CET = (0.528)G_{1-3} + (0.776)G_{4a} + (1.755)G_5 + (1.873)G_6$

where:

$G_{1-3}$  = Preceding 12 month rolling total fuel burned in EU IDs 1 – 3, gallons

$G_{4a}$  = Preceding 12 month rolling total fuel burned in EU ID 4a, gallons

$G_5$  = Preceding 12 month rolling total fuel burned in EU ID 5, gallons

$G_6$  = Preceding 12 month rolling total fuel burned in EU ID 6, gallons

- b. By the 15th of each month, calculate and record 12 month rolling total NOx emissions for the previous 12 months using Equation 2. **Equation 2**

**Equation 2:**

$$Emissions (tpy) = \left[ \frac{(0.200)G_{1-3} + (0.294)G_{4a} + (0.665)G_5 + (0.710)G_6}{2000} \right]$$

where:

$G_{1-3}$  = Preceding 12 month rolling total fuel burned in EU IDs 1 – 3, gallons

$G_{4a}$  = Preceding 12 month rolling total fuel burned in EU ID 4a, gallons

$G_5$  = Preceding 12 month rolling total fuel burned in EU ID 5, gallons

$G_6$  = Preceding 12 month rolling total fuel burned in EU ID 6, gallons

- c. Report as set out by Condition 74 any time the CET calculated in Condition 12.2a exceeds the CET fuel limit in Condition 12.2a, or any time the total emissions calculated in Condition 12.2b exceeds the limit for the engines in Condition 12.
- d. Include the records required under Conditions 12.2a and 12.2b with the Operating Report required by Condition 75.

12.3 For EU IDs 7 through 11:

- a. Do not exceed a CET fuel limit of 1,637,228 gallons per 12 consecutive months. By the 15th of each month calculate the CET for the boilers and fishmeal dryer using Equation 3:

**Equation 3:**  $CET = (1.279)G_7 + (0.597)G_8 + (1.705)G_9 + (1.151)G_{10} + (0.981)G_{11}$

where:

$G_7$  = Preceding 12 month rolling total fuel burned in EU ID 7, gallons

$G_8$  = Preceding 12 month rolling total fuel burned in EU ID 8, gallons

$G_9$  = Preceding 12 month rolling total fuel burned in EU ID 9, gallons

$G_{10}$  = Preceding 12 month rolling total fuel burned in EU ID 10, gallons

$G_{11}$  = Preceding 12 month rolling total fuel burned in EU ID 11, gallons

- b. By the 15th of each month, calculate and record 12 month rolling total NOx emissions for the previous 12 months using Equation 4.

**Equation 4:**

$$Emissions (tpy) = \left[ \frac{(0.030)G_7 + (0.014)G_8 + (0.040)G_9 + (0.027)G_{10} + (0.023)G_{11}}{2000} \right]$$

where:

$G_7$  = Preceding 12 month rolling total fuel burned in EU ID 7, gallons

$G_8$  = Preceding 12 month rolling total fuel burned in EU ID 8, gallons

$G_9$  = Preceding 12 month rolling total fuel burned in EU ID 9, gallons

$G_{10}$  = Preceding 12 month rolling total fuel burned in EU ID 10, gallons

$G_{11}$  = Preceding 12 month rolling total fuel burned in EU ID 11, gallons

- c. Report as set out by Condition 74 any time the CET calculated in Condition 12.3a exceeds the CET fuel limit in Condition 12.3a or any time the total emissions calculated in Condition 12.3b exceed the limit for the boilers in Condition 12.
- d. Include the records required under Conditions 12.3a and 12.3b with the Operating Report required by Condition 75.

**13. Periodic Verification of NO<sub>x</sub> PSD Avoidance.** Once during the life of this permit, within six (6) months after exceeding 60% of the NO<sub>x</sub> limits in Condition 12, the Permittee shall conduct a one-time performance testing at 4 loads representative of normal operations to verify the worst case fuel-specific emissions factors and consumption rates for EUI IDs 1 – 3, 4a, 5 and 6 used in **Table B**.

13.1 Monitor, record and report as set out in Section 6.

13.2 Report the results of any performance testing for the period covered by that report in the Operating Report required by Condition 75.

13.3 For values obtained as a result of performance testing that exceed the allowed values used in **Table B** or exceed the fuel specification emission factors used to establish the CAP of Condition 12, the Permittee shall request a permit modification to incorporate the values obtained by performance testing.

[18 AAC 50.326(a), 10/1/04]  
[40 C.F.R. 71.6(a)(3)(B), 7/1/03]

**14. Limits to Ensure Compliance with State Ambient Air Quality Standard and Increment for NO<sub>2</sub>.** The Permittee shall not allow the stationary source to cause a violation of the state ambient air quality standard and increment for NO<sub>2</sub>.

[18 AAC 50.010(2) & 50.020, 10/01/04]  
[Construction Permit No. 241CP03, 2/9/05]  
[18 AAC 50.326(a), 10/1/04] [40 C.F.R. 71.2 and 71.6(a)(1 & 3), 7/1/03]

14.1 Limit the total amount of all fuels burned in EU IDs 1 – 3, 4a, 5 and 6, combined, to less than 1,440,700 gallons per 12 consecutive months.

- a. By the 15th of each month, calculate and record the 12-month rolling total fuel burned in EU IDs 1 – 3, 4a, 5 and 6 for the previous 12 months, in gallons, as set out by Condition 12.1.
- b. Report as set out by Condition 74 any time the 12-month total exceeds the limit in Condition 14.1.
- c. Include the records required under Condition 14.1a with the Operating Report required by Condition 75.

14.2 Limit the total amount of all fuels burned in EU IDs 7 through 11, combined, to less than 1,637,228 gallons per 12 consecutive months.

- a. By the 15th of each month, calculate and record the 12 month rolling total fuel burned in EU IDs 7 through 11 for the previous 12 months, in gallons, as set out by Condition 12.1.
- b. Report as set out by Condition 74 any time the 12-month total exceeds the limit in Condition 14.2.
- c. Include the records required under Condition 14.2a with the Operating Report required by Condition 75.

**15. Limit to Protect SO<sub>2</sub> Ambient Air Quality Standards and Increments.** Permittee shall not allow the stationary source to cause a violation of the state ambient air quality standard and increment for SO<sub>2</sub>.

[Permit No. 9625-AA006, Exhibit B Part I & Condition 1, 10/29/96]  
[Construction Permit No. 241CP02, Condition III, 11/26/02]  
[18 AAC 50.326(a), 10/1/04]  
[40 C.F.R. 71.2 and 71.6(a)(1 & 3), 7/1/03]

- a. Do not burn more than 3,077,928 gallons during any 12 consecutive months in EU IDs 1 – 3, 4a, and 5 – 11.
  - b. Track fuel consumption as required under Conditions 12.1, 14.1a, and 14.2a.
  - c. Report as set out by Condition 74 any time the 12-month total exceeds the limit in Condition 15.
  - d. Include the records required under Condition 15.b with the Operating Report required by Condition 75.
- 15.2 Use fuel with a sulfur content no more than 0.1 percent by weight except as set forth in Condition 22.
- a. Monitor, record, and report in accordance with Condition 11.

**Insignificant Emission Units**

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

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

[18 AAC 50.050(a) & 50.055(a)(1), 7/25/08]

16.2 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]

16.3 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]

**16.4 General MR&R for Insignificant Emission Units**

- a. The Permittee shall submit the compliance certifications of Condition 76 based on reasonable inquiry;
- b. The Permittee shall comply with the requirements of Condition 53;

- c. The Permittee shall report in the operating report required by Condition 75 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.

**Section 4. Federal Requirements**

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

**17. 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 19 – 24. 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]

**Standards of Performance for Stationary Compression Ignition Internal Combustion Engines - Subpart IIII and National Emission Standard for Hazardous Emission Standards Subpart ZZZZ ( By Reference ).**

**18.** In accordance with 40 CFR 60.4218, EU 4a listed in Table A is subject to the applicable NSPS General Provisions as described by “Table 8 to Subpart IIII of Part 60” as follows:

18.1 The definitions and informational requirements of 40 CFR 60.1, 60.2, 60.3, 60.4, 60.5, 60.6, 60.9, 60.10, 60.12, 60.14, 60.15, 60.16, 60.17 and 60.19 apply in their entirety.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
 [40 C.F.R. 60.4218, 7/11/06; 40 C.F.R. 60, Subpart IIII, Table 8, 7/11/06]

**Subpart IIII Emission Limits**

**19.** EU 4a shall be certified by the manufacturer to meet the applicable emission standards found in **Table C** and shall continue to meet them for the useful life of the engine.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
 [40 C.F.R. 60.4204(b), 7/11/06; 40 C.F.R. 60.4201, 7/11/06;  
 40 C.F.R. 60.4211(c), 7/11/06; 40 CFR 89.112(a), 7/13/05]  
 [18AAC 50.040(c), 7/25/08; 40C.F.R. 63.6590(c), 7/16/07]

**Table C - Emission Standards for Pre-2007 Engines<sup>a</sup>**

Engine Size liters/cylinder	Rated Power	Tier	Model year <sup>b</sup>	NMHC + NOX g/kW-hr	CO g/kW- hr	PM g/kW- hr
4.3	kW<560	2	2006 and later	6.4	3.5	0.20

<sup>a</sup>From 40 CFR 89.112(a), Table 1 Primary Tier 2 Exhaust Emission Standards (g/kW-hr)

<sup>b</sup>The model years listed indicate the model years for which the specified standards start. These standards apply to 2006 and later model year non road engines, and 2007 and later model year stationary engines.

[40 C.F.R. 60.4204(b), 7/11/06; 40 C.F.R. 60.4201, 7/11/06; 40 C.F.R. 60.4211(c), 7/11/06;  
 40 CFR 89.112(a), 7/13/05]

- 20.** Any modified or reconstructed CI ICE shall be certified by the entity that conducts the modification or reconstruction (via the appropriate testing according to 40 CFR 60.4212). This certification shall state that emissions will be at or below the applicable emission standards found in **Table C** and the unit shall continue to meet them for the useful life of the engine.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4211, 7/11/06]

- 21.** The Permittee shall operate and maintain EU 4a over the entire life of the engine according to the manufacturer's written instructions or procedures developed by the Permittee that are approved by the engine manufacturer. The Permittee may only change those settings that are permitted by the manufacturer.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4211(a), 7/11/06]

### Fuel Requirements

- 22.** For EU ID 4a the Permittee shall use diesel fuel that meets the following requirements on a per-gallon basis:

**22.1** Until November 30, 2010:

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4207(a), 7/11/06; 40 C.F.R. 80.510, 7/15/05]  
[40 C.F.R. 63.6590(c), 7/16/07]  
[18AAC 50.040(c)]

- a. sulfur content of 500 parts per million (ppm) maximum; and
- b. either
  - (i) a minimum Cetane index or aromatic content of 40; or
  - (ii) A maximum aromatic content of 35 volume percent.

**22.2** Beginning December 1, 2010:

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4207(b), 7/11/06; 40 C.F.R. 60.4216, 7/11/06;  
40 C.F.R. 69.52, 6/6/06; 40 C.F.R. 80.510, 7/15/05]

- a. sulfur content of 15 parts per million (ppm) maximum; and
- b. either
  - (i) a minimum Cetane index or aromatic content of 40; or
  - (ii) a maximum aromatic content of 35 volume percent.

- 23.** The Permittee may petition the Administrator (EPA) for approval to use any fuels mixed with used lubricating oil that do not meet the fuel requirements of Conditions 22 and 22.2. Permittee must demonstrate in their 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), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4207(d), 7/11/06]

### **Opacity**

- 24.** Exhaust opacity from EU ID 4a shall not exceed:

24.1 20 percent during the acceleration mode;

24.2 15 percent during the lugging mode; and

24.3 50 percent during the peaks in either the acceleration or lugging modes.

24.4 Comply with Conditions 24.1 – 24.3 by complying with Condition 26.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4204(b), 7/11/06; 40 C.F.R. 60.4201, 7/11/06;  
40 C.F.R. 60.4211(c), 7/11/06; 40 CFR 89.112(a), 7/13/05]

### **Monitoring**

- 25.** If EU ID 4a is equipped with a diesel particulate filter to comply with the emission standards in **Table C**, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4209(b), 7/11/06]  
[40 C.F.R. 63.6590(c), 7/11/06]

### **Compliance Requirements**

- 26.** The Permittee shall comply with the emission standards in **Table C** and Conditions 24.1 – 24.3 by purchasing an engine certified to those emission standards, and by installing and configuring it according to the manufacturer's specifications.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4211(c), 7/11/06]

### **Record Keeping**

- 27.** The Permittee shall maintain records of manufacturer certifications that identify the applicable emission limits for the appropriate model year and maximum engine power and certify the applicable units to those standards.

- 28.** The Permittee shall keep the following records:

28.1 Records showing that EU ID 4a was installed and configured in compliance with Condition 26.

28.2 Records of any maintenance required by Condition 21 that would have a significant effect on emissions; the records may be kept in electronic format.

28.3 A copy of the maintenance procedures used under Condition 21.

[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)(i), 7/2/07]

**29.** The Permittee shall maintain records that verify compliance with the diesel fuel requirements of Conditions 22.1 or 22.2.

[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)(i), 7/2/07]

**30.** If EU ID4a is equipped with a diesel particulate filter, the Permittee must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 60.4214(c), 7/11/06]

## Reporting

**31.** Report compliance with fuel sulfur standards of Conditions 22 and 22.2 as set out in Conditions 11 and 75.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 24; 10/15/2009]

**32.** The Permittee shall not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines in 40 CFR 60, Subpart III, as applicable.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 15; 10/15/2009]

**33.** After December 31, 2009, the Permittee shall not install stationary CI ICE with a maximum engine power of less than 25 hp (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines in 40 CFR 60, Subpart III, as applicable.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 16; 10/15/2009]

**34.** After December 31, 2014, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 25 HP and less than 75 HP that do not meet the applicable requirements for 2013 model year non-emergency engines in 40 CFR 60, Subpart III, as applicable.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 17; 10/15/2009]

- 35.** After December 31, 2013, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 75 HP and less than 175 HP that do not meet the applicable requirements for 2012 model year non-emergency engines in 40 CFR 60, Subpart IIII, as applicable.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 18; 10/15/2009]

- 36.** After December 31, 2012, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 175 HP, including those above 750 HP, that do not meet the applicable requirements for 2011 model year non-emergency engines in 40 CFR 60, Subpart IIII, as applicable.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 19; 10/15/2009]

- 37.** After December 31, 2016, the Permittee shall not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 750 HP that do not meet the applicable requirements for 2015 model year non-emergency engines in 40 CFR 60, Subpart IIII, as applicable.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 20; 10/15/2009]

- 38.** The requirements of Conditions 32 through 37 do not apply to stationary CI ICE that have been modified or reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location. This provision does not extend to imported units which shall be treated as new sources.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[AQ0241MSS01, Condition 21; 10/15/2009]

**Emission Units/Stationary Sources Subject to Federal National Emission Standards for Hazardous Air Pollutants (HAPs) – 40 C.F.R. 63, Subpart ZZZZ**

*EU IDs 1 – 3, 4a, 5 and 6*

- 39.** On and after May 2, 2013, for EU IDs 1 – 3, 5 and 6, the Permittee shall comply with Conditions 39.2 through 39.5.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 63, Subpart ZZZZ: §6695(a)(1), §6603(b), Table 2d, §6625(e), (h), and (i), Table 6, §6665, Table 8, 2/17/10]

39.1 For EU ID 4a, comply with Conditions 18 - 38.

[18 AAC 50.040(c)(23), 7/25/08]  
[40 C.F.R. 63.6590(c), 7/16/07]

39.2 The Permittee shall meet the following requirement, except during periods of startup:

- a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first; the Permittee may extend the time between oil changes consistent with Condition 39.2d.
- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;

- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
  - d. The Permittee has the option to utilize an oil analysis program as described in Conditions 39.2d(i) to 39.2d(v) in order to extend the specified oil change requirement in Condition 39.2a.
    - (i) The oil analysis must be performed at the same frequency specified for changing the oil in Condition 39.2a.
    - (ii) The analysis program must, at a minimum, analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows:
      - (A) total Base Number is less than 30 percent of the Total Base Number of the oil when new;
      - (B) viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or
      - (C) percent water content (by volume) is greater than 0.5.
    - (iii) If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil before continuing to use the engine.
    - (iv) The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine.
    - (v) The analysis program must be part of the maintenance plan for the engine.
- 39.3 During periods of startup the Permittee must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
- 39.4 The Permittee shall
- a. Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
  - b. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

39.5 The Permittee shall comply with all applicable provisions of 40 C.F.R. 63, Subpart ZZZZ, Table 8, which lists provisions of 40 C.F.R. 63, Subpart A that may apply to Subpart ZZZZ. Not all of the provisions listed for Subpart ZZZZ do apply to EU IDs 1-3, 5 and 6 because of their specific classifications within Subpart ZZZZ. **Table D** lists the provisions from Table 8 listed as applying to Subpart ZZZZ, and notes whether they do apply to EU IDs 1-3, 4a, 5 and 6.

**Table D – 40 C.F.R. 63, Subpart A General Provisions<sup>14</sup>**

Provision of 40 C.F.R. 63, Subpart A	Does it apply to EU IDS 1-3, 5 and 6?	Explanation
§63.1 General applicability of the General Provisions	Y	
§63.2 Definitions	Y	Additional terms defined in §63.6675.
§63.3 Units and abbreviations	Y	
§63.4 Prohibited activities and circumvention	Y	
§63.5 Construction and Reconstruction	N	Not a HAP major emitting source.
§63.6(a) Applicability	Y	
§63.6(b)(1)-(4) Compliance dates for new and reconstructed sources	N, not as permitted	EU IDS 1-3, 5 and 6 are not new or reconstructed
§63.6(b)(5) Notification	N, not as permitted	EU IDS 1-3, 5 and 6 are not new or reconstructed
§63.6(b)(7) Compliance dates for new and reconstructed area sources that become major sources	N, not as permitted	EU IDS 1-3, 5 and 6 are not new or reconstructed
§63.6(c)(1)-(2) Compliance dates for existing sources	Y	
§63.6(c)(5) Compliance dates for existing area sources that become major sources	N, not as permitted	Not a HAP major emitting source.
§63.6(f)(2) Methods for determining compliance	N	Not subject to numerical emission standard under Subpart ZZZZ
§63.6(f)(3) Finding of compliance	N	Not subject to numerical emission standard under Subpart ZZZZ
§63.6(g)(1)-(3) Use of alternate standard	Y	
§63.6(i) Compliance extension procedures and criteria	Y	Except for provisions dealing specifically with numerical emission standards
§63.6(j) Presidential compliance exemption	Y	
§63.7(a)(1)-(2) Performance test dates	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(a)(3) CAA section 114 authority	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for performance test
§63.7(b)(1) Notification of performance	N	Not subject to numerical emission standard

<sup>4</sup> This table lists only those provisions that 40 C.F.R. 63, Subpart ZZZZ, Table 8 lists as potentially applying to that Subpart.

Provision of 40 C.F.R. 63, Subpart A	Does it apply to EU IDS 1-3, 5 and 6?	Explanation
test		under Subpart ZZZZ – no performance test required
§63.7(b)(2) Notification of rescheduling	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(c) Quality assurance/test plan	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(d) Testing facilities	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(e)(2) Conduct of performance tests and reduction of data	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(e)(3) Test run duration	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(e)(4) Administrator may require other testing under section 114 of the CAA	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for performance test
§63.7(f) Alternative test method provisions	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(g) Performance test data analysis, recordkeeping, and reporting	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.7(h) Waiver of tests	N	Not subject to numerical emission standard under Subpart ZZZZ – no performance test required
§63.8(a)(1) Applicability of monitoring	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for continuous monitoring system (CMS)
§63.8(a)(2) Performance specifications	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(b)(1) Monitoring	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(b)(2)-(3) Multiple effluents and multiple monitoring systems	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(c)(1) Monitoring system operation and Maintenance	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(c)(1) (i) Routine and predictable SSM	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(c)(1) (ii) SSM not in Startup Shutdown Malfunction Plan	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(c)(1) (iii) Compliance with operation and maintenance	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS

<b>Provision of 40 C.F.R. 63, Subpart A</b>	<b>Does it apply to EU IDS 1-3, 5 and 6?</b>	<b>Explanation</b>
requirements		
§63.8(c)(2)-(3) Monitoring system installation	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(c)(4) Continuous monitoring system (CMS) requirements	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(c)(6)-(8) CMS requirements	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(d) CMS quality control	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(e) CMS performance Evaluation	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(f)(1)-(5) Alternative monitoring Method	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(f)(6) Alternative to relative accuracy Test	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.8(g) Data reduction	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.9(a) Applicability and State delegation of Notification requirements	Y	
§63.9(b)(1)-(5) Initial notifications	N	Exempted by §63.6645
§63.9(c) Request for compliance Extension	N	Exempted by §63.6645
§63.9(d) Notification of special compliance requirements for new sources	N	Exempted by §63.6645
§63.9(e) Notification of performance test	N	Exempted by §63.6645
§63.9(g)(1) Notification of performance Evaluation	N	Exempted by §63.6645
§63.9(g)(3) Notification that criterion for alternative to RATA is exceeded	N	Exempted by §63.6645
§63.9(h)(1)-(6) Notification of compliance status	N	Exempted by §63.6645
§63.9(i) Adjustment of submittal deadlines	N	No applicable deadlines
§63.9(j) Change in previous information	Y	
§63.10(a) Administrative provisions for Record keeping/reporting	Y	
§63.10(b)(1) Record retention	Y	
§63.10(b)(2) (vi)-(xi) Records	N	
§63.10(b)(2) (xii) Record when under Waiver	Y	Not applicable because not subject to numerical emission standard under Subpart ZZZZ
§63.10(b)(2) (xiii) Records when using alternative to RATA	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.10(b)(2) (xiv) Records of Supporting documentation	N	Records not applicable

Provision of 40 C.F.R. 63, Subpart A	Does it apply to EU IDS 1-3, 5 and 6?	Explanation
§63.10(b)(3) Records of applicability Determination	Y	If such applicability determination made
§63.10(c) Additional records for sources using CEMS	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.10(d)(1) General reporting Requirements	Y	
§63.10(d)(2) Report of performance test Results	N	No performance test required
§63.10(d)(4) Progress reports	Y	
§63.10(e)(1) and (2)(i) Additional CMS Reports	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.10(e)(3) Excess emission and Parameter exceedances reports	N	Not subject to numerical emission standard under Subpart ZZZZ – no basis for CMS
§63.10(f) Waiver for recordkeeping/ Reporting	Y	
§63.12 State authority and delegations	Y	
§63.13 Addresses	Y	
§63.14 Incorporation by reference	Y	
§63.15 Availability of information	N	Confidentiality for stationary sources in Alaska is governed by AS 46.14.520

## **Subpart ZZZZ Compliance Requirements**

### *EU IDs 1 – 3, 5 and 6*

- 40.** At all times the Permittee shall operate and maintain EU IDs 1 – 3, 5 and 6, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by Condition 39 has been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 63, Subpart ZZZZ, §6605(b); 5/2/10]

## **Subpart ZZZZ Records and Reporting**

### *EU IDs 1 – 3, 5 and 6*

- 41.** The Permittee shall keep records of the maintenance conducted on EU IDs 1 – 3, 5 and 6 in order to demonstrate that the emission units and after-treatment control device (if any) are operated and maintained according to the maintenance plan or Condition 39.4.

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 63, Subpart ZZZZ, §6655(e); 5/2/10]

- 42.** The Permittee shall report using Condition 74 as follows:

[18 AAC 50.040(j), 7/25/08; and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 63, Subpart ZZZZ, §6640(e); 5/2/10]

- 42.1 Report each instance in which the requirements in 40 C.F.R. 63, Subpart ZZZZ, Table 8 are not met; also report to EPA Region 10 consistent with 40 C.F.R. 63.10;
- 42.2 Report if a requirement of Conditions 39.2 to 39.4 is not met.

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

### **Standard Terms and Conditions**

- 43.** 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]

- 44.** 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]

- 45.** 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]

- 46. 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, 7/01/10;  
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]

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

47.1 the stationary source's assessable potential to emit of 413.0; or

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

- a. an enforceable test method described in 18 AAC 50.220;
- b. material balance calculations;
- c. emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035; or
- d. other methods and calculations approved by the Department.

[18 AAC 50.040(j)(3) 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.035 and 18 AAC 50.346(b)(1), 11/9/08;  
18 AAC 50.410, 07/01/10; and 18 AAC 50.420, 1/29/05]  
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

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

48.1 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

48.2 if no estimate is received on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit set forth in Condition 47.1.

[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, 07/01/10; and 18 AAC 50.420, 1/29/05]  
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

**49. Good Air Pollution Control Practice.** Except as noted in Condition 49.4, the Permittee shall comply with Conditions 49.1 through 49.2 for EU IDs 1 – 3, 5, 6 and 7 through 11.

49.1 Perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;

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

49.3 Keep a copy of either the manufacturer's or the operator's maintenance procedures.

49.4 EU IDs 1 – 3, 5 and 6 are subject to this condition only until the applicable compliance date as set forth in Condition 39.

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

**50. 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]

**51. 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]

**52. 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]

**53. 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]

53.1 Monitoring, Record Keeping, and Reporting for Condition 53

- a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 74.
- 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 53.

53.2 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 53; or
- b. the Department notifies the Permittee that it has found a violation of Condition 53.

53.3 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 53; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

53.4 With each stationary source operating report under Condition 75, 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.

53.5 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.

53.6 Meal Dryer: Operate the meal dryer evaporator emission controls (seawater scrubber system) at any time the fish meal plant evaporator system is in operation.

- a. Keep records of evaporator system operations and scrubber system operations listing the dates and times the plant and system are in operation.
- b. Report as a permit deviation for any event during which scrubber system is not operating concurrently with the meal dryer evaporator system.

**54. 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>5</sup> listed in Conditions 18 through 42 (NSPS and MACT), and 56 (refrigerants), the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 74 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 74.

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

**55. 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]

**56. 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]

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

**57.** The Permittee shall comply with the following 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]

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<sup>5</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.

- 57.1 Do not use a substitute which a person 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.
- 57.2 Do 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.
- 57.3 Do not use a substitute after the effective date of any rulemaking adding such substitute to the list of unacceptable substitutes.
- 58.** The Permittee shall comply with the following prohibitions set out in 40 C.F.R. 82.270.  
[18 AAC 50.040(d), 7/25/08]  
[40 C.F.R. 82.270 (b)-(f), 7/1/07]
- 58.1 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 halons used in such equipment, as follows:
- 58.2 De minimis<sup>6</sup> releases associated with good faith attempts to recycle or recover halon are not subject to this prohibition.
- 58.3 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.
- 58.4 Release of halons during testing of fire extinguishing systems is not subject to this prohibition if the following Conditions 58.4a - 58.4d are met:
- a. systems or equipment employing suitable alternative fire extinguishing agents are not available;
  - b. system or equipment testing requiring release of extinguishing agent is essential to demonstrate system or equipment functionality;
  - c. failure of the system or equipment would pose great risk to human safety or the environment; and
  - d. a simulant agent cannot be used in place of the halon during system or equipment testing for technical reasons.
- 58.5 Releases of halons associated with research and development of halon alternatives, and releases of halons necessary during analytical determination of halon purity using established laboratory practices are exempt from this prohibition.

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<sup>6</sup> A legal term meaning “of minimum importance.”

- 58.6 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.
- 58.7 This prohibition does not apply to the emergency release of halons for the legitimate purpose of fire extinguishing, explosion inertion, or other emergency applications for which the equipment or systems were designed.
- 58.8 Organizations that employ technicians who test, maintain, service, repair or dispose of halon-containing equipment shall take appropriate steps to ensure that technicians hired on or before April 6, 1998 will be trained regarding halon emissions reduction by September 1, 1998. Technicians hired after April 6, 1998 shall be trained regarding halon emissions reduction within 30 days of hiring, or by September 1, 1998, whichever is later.
- 58.9 No person shall dispose of halon- containing equipment except by sending it for halon recovery to a manufacturer operating in accordance with NFPA 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 halons.
- 58.10 No person shall 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.
- 58.11 No owner of halon-containing equipment shall allow halon release to occur as a result of failure to maintain such equipment.

### **Open Burning Requirements**

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

59.1 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.

59.2 Compliance with this condition shall be an annual certification conducted under Condition 76.

[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), 7/2/07]

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

- 60. 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]

- 61. 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]

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

61.2 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.

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

62.1 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]

62.2 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]

62.3 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]

- 63. 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]

- 64. Test Exemption.** The Permittee is not required to comply with Conditions 66, 67 and 68 when the exhaust is only 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]

- 65. 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]

- 66. Test Plans.** Except as provided in Condition 64, 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 60 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]

- 67. Test Notification.** Except as provided in Condition 64, 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]

- 68. Test Reports.** Except as provided in Condition 64, 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 71. 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]

- 69. Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 5 and 16.2, the three-hour average is determined using the average of three one-hour test runs [18 AAC 50.220(f), 10/1/04]

## ***Section 7. General Recordkeeping and Reporting Requirements***

### **Recordkeeping Requirements**

**70. 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]

- 70.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
- 70.2 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**

**71. 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.

- 71.1 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 71.1a, 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]

**72. Submittals.** Unless otherwise directed by the Department or this permit, the Permittee shall send two copies 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 71.

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

**73. 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]

**74. 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]

74.1 Except as provided in Condition 53, the Permittee shall report all emissions or operations that exceed or deviate from the requirements of this permit as follows:

- a. in accordance with 18 AAC 50.240(c), as soon as possible after the event commenced or is discovered, report
  - (i) emissions that present a potential threat to human health or safety; and
  - (ii) excess emissions that the Permittee believes to be unavoidable;
- b. in accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or non routine repair that causes emissions in excess of a technology based emission standard;
- c. report all other excess emissions and permit deviations
  - (i) within 30 days of the end of the month in which the emissions or deviation occurs, except as provided in Conditions 74.1c(ii) and 74.1c(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 74.1c(i); and
  - (iii) for failure to monitor, as required in other applicable conditions of this permit.

- 74.2 When reporting excess emissions, 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.
- 74.3 When reporting a permit deviation, the Permittee must report using the form contained in Section 13 of this permit. The Permittee must provide all information called for by the form.
- 74.4 If requested by the Department, the Permittee shall provide a more detailed written report as requested to follow up an excess emissions report.
- 75. Operating Reports.** During the life of this permit<sup>7</sup>, the Permittee shall submit to the Department an original and two copies of an operating report by August 1 for the period January 1 to June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.
- [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]
- 75.1 The operating report must include all information required to be in operating reports by other conditions of this permit.
- 75.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 75.1, 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 74 the Permittee shall cite the date or dates of those reports.
- 75.3 The operating report must include a listing of emissions monitored under Conditions , 2.1e, and 2.2c, which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report
- a. the date of the emissions;

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<sup>7</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.

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

**75.4 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.

**76. Annual Compliance Certification.** Each year by March 31, the Permittee shall compile and submit to the Department one original<sup>8</sup> and one copy of an annual compliance certification report.

76.1 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;

76.2 **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

76.3 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]

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

77.1 attach to the facility operating report required by Condition 75, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and

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

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

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<sup>8</sup> See Condition 76.2 for clarification

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

**78. Permit Applications and Submittals:** The Permittee shall comply with the following requirements for submitting application information to the US Environmental Protection Agency (EPA):

78.1 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;

78.2 The information shall be submitted to the same address as in Condition 76.3.

78.3 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

78.4 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]

**79. 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]

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

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

80.2 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;

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

80.4 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.

**81. 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):

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

81.2 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.

81.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 81.

[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]

**82. 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 and 18 AAC 50.326(c)(2) & (j)(2), 12/1/04]  
[40 C.F.R. 71.5(a)(1)(iii) and 71.7(b) & (c)(1)(ii), 7/2/07]

**83. Permit Applications.** The Permittee shall send original applications for modification, or renewal of this permit and application addenda to the Department's Anchorage office<sup>9</sup>. In addition, the Permittee may provide electronic copies of application documents; portable document format (PDF) or MS Word are acceptable formats.

[18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.7(a)(1)(i), 7/2/07]

**84.** The Permittee shall submit to the US Environmental Protection Agency (EPA) to the same address as in Condition 76.3:

84.1 a copy of any application for modification, or renewal of this permit and application addenda, at the time the application or addendum is submitted to the Department;

84.2 to the extent practicable, the Permittee shall provide to EPA applications in computer-readable format compatible with EPA's national database management system. In the interim until EPA implements such system, portable document format (PDF) or MS Word are acceptable formats.

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

<sup>9</sup> The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501

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

### **General Compliance Requirements**

- 85.** Compliance with permit terms and conditions is considered to be compliance with those requirements that are
- 85.1 included and specifically identified in the permit; or
  - 85.2 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]
- 86.** The Permittee must comply with each permit term and condition.
- 86.1 For applicable requirements with which the **Unalaska Seafood Processing Facility** is in compliance, the Permittee shall continue to comply with such requirements.
  - 86.2 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 and 50.326(j), 12/1/04; and 18 AAC 50.345(a) & (c), 11/9/08]  
[40 C.F.R. 71.6(c)(3) & 71.5(c)(8)(iii)(A), 7/2/07]
- 87.** 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; and 18 AAC 50.345(a) & (d), 11/9/08]
- 88.** 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
- 88.1 enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
  - 88.2 have access to and copy any records required by the permit;
  - 88.3 inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
  - 88.4 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]
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- 89.** For applicable requirements that will become effective during the permit term, the Permittee shall meet such requirements on a timely basis.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 12/1/04]  
[40 C.F.R. 71.6(c)(3) & 71.5(c)(8)(iii)(B), 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 permit application, this section of the permit contains the requirements determined by the Department not to be applicable to the **Unalaska Seafood Processing Facility**.

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

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

90.2 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]

91. Table E 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 E 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 E - Permit Shields Granted.**

EU ID	Non-Applicable Requirements	Reason for non-applicability
7 – 10	40 C.F.R. 60 Subpart Dc Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Emission units 7, 9, and 10 commenced construction prior to June 9, 1989 and emission unit no. 8 and 10 have maximum design heat input capacities less than 10 MMBtu/hr
Storage Tanks 12, 13 (not listed in Table A - Emission Units Inventory, because there are no applicable requirements for these tanks)	40 C.F.R. 60, Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction or Modification Commenced after June 11, 1973 and Prior to May 19, 1978	Storage tanks 12 and 13 have capacities less than 40,000 gallons
Storage Tanks 12, 13 (not listed in Table A - Emission Units Inventory, because there are no applicable requirements for these tanks)	40 C.F.R. 60 Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction or Modification Commenced after May 18, 1978 and prior to July 23, 1984	Storage tanks 12 and 13 have capacities less than 40,000 gallons
Storage Tanks 12, 13 (not listed in Table A - Emission Units Inventory, because there are no applicable requirements for these tanks)	40 C.F.R. 60 Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for which Construction, Reconstruction or Modification Commences after July 23 1984	Effective October 15, 2003, the Subpart does not apply to storage vessels with a capacity greater than 19,813 gallons but less than 39,890 gallons storing liquid with true vapor pressure less than 15.0 kPa, effective October 15, 2003

<b>EU ID</b>	<b>Non-Applicable Requirements</b>	<b>Reason for non-applicability</b>
NA	40 C.F.R. 82.158 and 40 C.F.R. 82.160 – Protection of Stratospheric Ozone - Recycling and Emissions Reduction - standards for recycling and recovery equipment and approved equipment testing organizations	The stationary source does not manufacture or import recycling and recovery equipment and is not a refrigeration equipment testing organization
1 – 3, 5 and 6	40 C.F.R. 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines	The applicant certifies that the model years of these engines predate model year 2005, and have not been rebuilt or modified after June 11, 2005

**Section 11. Visible Emissions Forms**

**Visible Emissions Field Data Sheet**

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

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

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

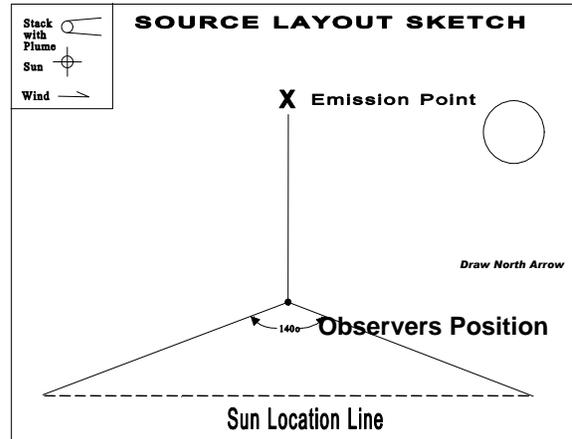
Test No.: \_\_\_\_\_ Date: \_\_\_\_\_

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 SO<sub>2</sub> using the following equations:

A. = 31,200 x [wt%**S**<sub>fuel</sub>] = 31,200 x \_\_\_\_\_ = \_\_\_\_\_

B. = 0.148 x [wt%**S**<sub>fuel</sub>] = 0.148 x \_\_\_\_\_ = \_\_\_\_\_

C. = 0.396 x [wt%**C**<sub>fuel</sub>] = 0.396 x \_\_\_\_\_ = \_\_\_\_\_

D. = 0.933 x [wt%**H**<sub>fuel</sub>] = 0.933 x \_\_\_\_\_ = \_\_\_\_\_

E. = B + C + D = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

F. = 21 - [vol%**dry O**<sub>2, exhaust</sub>] = 21 - \_\_\_\_\_ = \_\_\_\_\_

G. = [vol%**dry O**<sub>2, exhaust</sub>] ÷ F = \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

H. = 1 + G = 1 + \_\_\_\_\_ = \_\_\_\_\_

I. = E x H = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

**SO**<sub>2</sub> concentration = A ÷ I = \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ ppm

The **wt%**S**<sub>fuel</sub>**, **wt%**C**<sub>fuel</sub>**, and **wt%**H**<sub>fuel</sub>** 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 11.3. 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**<sub>2, exhaust</sub>**) is obtained from oxygen meters, manufacturer's data, or from the most recent ORSAT analysis at the same engine load used in the calculation.

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

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

**Section 13. ADEC Notification Form<sup>10</sup>**

Stationary Source (Facility) 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 :  Continuous

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

- Start Up /Shut Down
- Natural Cause (weather/earthquake/flood)
- Control Equipment Failure
- Scheduled Maintenance/Equipment Adjustment
- Bad fuel/coal/gas
- Upset Condition
- Other \_\_\_\_\_

(c) **Description**

**Describe briefly, what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance.**

(d) Emissions Units Involved:

Identify the emission unit involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

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

<sup>10</sup> Revised as of August 20, 2008.

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

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

(f) Unavoidable Emissions:

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

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

Certify Report (go to end of form)

**Section 2 Permit Deviations**

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

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

(b) Emission Unit Involved.

Unit ID	Emission 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,*

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.*