DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0241TVP04 Public Notice Date - December 17, 2015

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.

Citations listed herein are contained within 18 AAC 50 dated September 26, 2015 Register 215. All Federal regulation citations are from those sections adopted by reference in this version of regulation in 18 AAC 50.040 unless otherwise specified.

Upon effective date of this permit, Operating Permit No. AQ0241TVP03 expires.

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

John F. Kuterbach, Manager
Air Permits Program

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List of Abbreviations Used in this Permit

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

Section 1. Stationary Source Information

Identification

Permittee:		**Alyeska Seafoods, Inc.** Mailing Address City, State, Zip Code
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:		Don Goodfellow, Greg Peters, & Mark JoHahanson P.O. Box 530 Unalaska, AK 99685-0530
Designated Agent:		Richard Elliot of Davis, Wright, Tremaine, LLP 1201 Third Ave., Suite 2200 Seattle, WA 98101
Stationary Source and Building Contact:		Dr. Greg Peters P.O. Box 530 Unalaska, AK 99685-0530 (907) 581-7543 GregP@alyeskaseafoods.com
Fee Contact:		Dr. Greg Peters P.O. Box 530 Unalaska, AK 99685-0530 (907) 581-7543 GregP@alyeskaseafoods.com
Permit Contact:		Dr. Greg Peters P.O. Box 530 Unalaska, AK 99685-0530 (907) 581-7543 GregP@alyeskaseafoods.com
Process Description:	SIC Code	2092 - Prepared fresh or frozen fish and seafoods
	NAICS Code:	311710 – Seafood Product Preparation and Packaging

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

Section 2. Emission Unit Inventory and Description

The Permittee is authorized to install and operate the emission units listed in Table A in accordance with the terms and conditions of this permit. Some emission units listed in Table A have specific monitoring, recordkeeping, or reporting conditions in this permit. Except as noted elsewhere in the permit, emission unit descriptions and ratings are given for identification purposes only. The specific unit descriptions do not restrict the Permittee from replacing an emission unit identified in Table A. The Permittee shall comply with all applicable provisions of AS 46.14 and 18 AAC 50 when installing a replacement emission unit, including any applicable minor or construction permit requirements.

Table A - Emission Unit 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
3a	Caterpillar Model 3512B-DITA	Diesel Generator	890 kW	2013
4a	Caterpillar Model D-3508C – DITA, SN LLC00200	Diesel Generator	682 kW/ 915 bhp[1]	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	Pre 1986
8	Seattle Boiler Works Model HPFWB – 1650 Four Pass Wet Back Boiler w/ ST Johnson Model FT98 Low NO_X Burner, SN L90600	Steam Boiler	9.7 MMBtu/hr	2000
9	Seattle Boiler Works Model HPT – 1650, SN L50972	Steam Boiler	300 bhp[2]	1990
10	Kewanee Model H3S-200-GO6, SN 5801	Steam Boiler	200 bhp[2]	1990
11	Stord 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
12	Various refrigeration equipment	Refrigeration system and related equipment	More than 40,000 lbs of anhydrous ammonia	

Notes:

1. bhp = brake horsepower
2. EU ID 4 (Caterpillar Model D-398, SN 67B1422) was noted as removed in the July 1- Dec 31, 2009 operating report.
3. EU ID 12 is not new , but now subject to the requirements of 40 CFR 68 for anhydrous ammonia storage

Section 3. State Requirements

Visible Emissions Standards

1. Industrial Process and Fuel-Burning Equipment Visible Emissions. The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU ID(s) 1 – 11 listed in Table A[1] to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

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

1.1. For EU ID(s) 1 – 11, monitor, record, and report in accordance with Conditions 2 through 4.

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

Visible Emissions Monitoring, Recordkeeping and Reporting

Liquid Fuel-Fired Emission Units (EU ID(s) 1 – 10) and Meal Dryer (EU ID 11)

2. Visible Emissions Monitoring. When required by Condition 1.1, or in the event of replacement during the permit term, the Permittee shall observe the exhaust of EU ID(s) 1 – 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 for each unit elect to continue the visible emissions monitoring schedule in effect from the previous permit at the time a renewed permit is issued, if applicable.

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

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

a. **First Method 9 Observation**. For any unit replaced during the term of this permit, observe exhaust for 18 minutes within 30 days of startup.

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

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

[1] EU IDs 1 – 11 include EU IDs 3a and 4a, which have replaced EU IDs 3 and 4 in previous permit actions.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3. Visible Emissions Recordkeeping. When required by Condition 1.1, or in the event of replacement of any EU ID(s) 1 – 11 during the permit term, the Permittee shall keep records as follows:

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

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

a. the observer shall record

(i) the name of the stationary source, emission unit and location, emission unit type, observer's name and affiliation, and the date on the Visible Emission Observation Form 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 mode (*load or fuel consumption rate or best estimate if unknown*) on the sheet at the time opacity observations are initiated and completed;

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

(iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emission Observation Form 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 6-minute and 18-consecutive-minute averages observed.

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

a. the date and time of the observation;

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

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

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

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

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

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

4. Visible Emissions Reporting. When required by Condition 1, or in the event of replacement of any of EU ID(s) 1 – 11 during the permit term, the Permittee shall report visible emissions as follows:

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

4.1. Include in each operating report under Condition 79 for the period covered by the report:

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

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

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

(ii) a summary to include:

(A) number of days observations were made;

(B) highest six-minute average observed; and

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

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

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

4.2. Report under Condition 78:

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

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

Particulate Matter Emissions Standards

5. Industrial Process and Fuel-Burning Equipment Particulate Matter. The Permittee shall not cause or allow particulate matter emitted from EU ID(s) 1 – 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) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

5.1. For EU ID(s) 1 – 11, monitor, record and report in accordance with Conditions 8 - 10.

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

PM Monitoring, Recordkeeping and Reporting

Liquid Fuel-Fired Engines (EU ID(s) 1 – 6)[2]

6. Particulate Matter Monitoring for Diesel Engines. The Permittee shall conduct source tests on diesel engines, EU ID(s) 1 – 6, to determine the concentration of particulate matter (PM) in the exhaust of an emission unit in accordance with this Condition 6.

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

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

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

[2] EU IDs 1 – 6 include EU IDs 3a and 4a, which have replaced EU IDs 3 and 4 in previous permit actions.

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

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

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

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

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

6.4. The automatic PM source test requirement in 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), 50.326(j), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(iii)]

7.1. Report under Condition 78

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

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

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

7.3. In each operating report under Condition 79, include for the period covered by the report:

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

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

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

For Liquid Fuel-Fired Boilers and Heaters (EU ID(s) 7 – 11)

8. Particulate Matter Monitoring for Liquid Fuel-Fired Boilers and Heaters. The Permittee shall conduct source tests on EU ID(s) 7 – 11 to determine the concentration of PM in the exhaust of EU ID(s) 7 – 11 as follows:

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

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

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

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

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

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

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

9.1. For EU ID 11, the Permittee shall keep records as set forth in Condition 60.6.a.

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

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

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

10.1. In each operating report required by Condition 79, include for the period covered in the report:

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

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

10.2. Report as excess emissions, in accordance with Condition 78, any time the results of a source test for PM exceed the PM emission limit stated in Condition 5.

10.3. For EU ID 11, report as set forth in Condition 60.6.b.

Sulfur Compound Emission Standards

11. Sulfur Compound Emissions. In accordance with 18 AAC 50.055(c), the Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from EU ID(s) 1 – 11 to exceed 500 ppm averaged over three hours.

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

For Fuel Oil[3] (EU ID(s) 1 – 3a and 5 – 11)

12. Sulfur Compound Monitoring and Recordkeeping for Fuel Oil-Fired Emission Units. The Permittee shall comply with the following:

12.1. The Permittee shall do one of the following for each shipment of fuel:

a. If the fuel grade requires a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount; or

b. If the fuel grade does not require a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount and

(i) Test for fuel sulfur content; or

(ii) Obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent.

12.2. Fuel testing under Condition 12 must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

12.3. If a load of fuel contains greater than 0.75 percent sulfur by weight, the Permittee shall calculate SO_2 emissions in ppm using either the material balance calculation in Section 12 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a).

13. Sulfur Compound Reporting for Fuel Oil-Fired Emission Units. The Permittee shall report as follows:

13.1. If SO_2 emissions calculated under Condition 12.3 exceed 500 ppm, the Permittee shall report under Condition 78. When reporting under this condition, include the calculation under Condition 12.3.

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

13.2. The Permittee shall include in the operating report required by Condition 79

a. a list of the fuel grades received at the stationary source during the reporting period;

b. for any grade with a maximum fuel sulfur greater than 0.5 percent sulfur, the fuel sulfur of each shipment; and

c. for fuel with a sulfur content greater than 0.75 percent, the calculated SO_2 emissions in ppm.

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

For NR[4] fuel oil, EU ID 4a

14. For EU ID 4a, use fuel oil that complies with Condition 27.

Monitor, record, and report as follows:

14.1. 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.

14.2. Upon receiving a shipment of fuel, calculate the fuel sulfur content of the stored fuel in the tanks at the stationary source, as follows:

a. Before loading fuel into a storage tank, measure and record the quantity of fuel *(V_T)* remaining in the storage tank.

b. Record the amount of fuel received in the shipment *(V_S)*.

c. Calculate and record the average sulfur content of the fuel in the tank using the following equation:

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

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 14.2).
S_S = sulfur content of the fuel delivery (recorded under Condition 14.1 or 14.5.a).
V_S = gallons of fuel delivered (recorded under Condition 14.2.a).
S_T = sulfur content of fuel in tank before delivery (from previous calculation).

[4] *NR* means Non-road diesel fuel in 40 CFR 80.2(ooo).

14.3. Report in accordance with Condition 78 whenever the fuel sulfur content calculated in Condition 14.2.c does not meet the requirements of Condition 12. 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 14.2.c.

14.4. Include in the operating report required by Condition 79, for the period covered by the report:

a. a list of the sulfur content of each shipment of fuel received at the stationary source during the reporting period, and

b. a list of the sulfur content in the tank after each shipment determined under Condition 14.3.

14.5. **Used Oil.** The Permittee may burn used oil blends in the boilers, EU IDs 7 – 10, as follows:[5]

[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 19.2. 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 19.

d. Include in the in the operating report required by Condition 79, for the period covered by the report:

(i) Results of each analysis as set out by Condition 14.5.a; 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 excess emissions and permit deviation as described by Condition 78, any time the blend ratio or other requirements deviate from Conditions 14.5.a to 14.5.d.

[5] 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.

Pre-construction Permit[6] Requirements

15. EU ID 3a. The Permittee shall not operate the EU ID 3a concurrently with EU ID 3.

15.1. Include in the operating report required by Condition 79, for the period covered by that report, a statement that EU ID 3a and EU ID 3 did not operate concurrently.

15.2. Report as excess emissions and permit deviation as described by Condition 78, any time EU IDs 3a and EU ID 3 operate concurrently.

16. NOx PSD Avoidance Limit. The Permittee shall not allow EU IDs 1 – 6 listed in Table A to emit more than 273 tons of nitrogen oxides (NOx) per 12 consecutive months and shall not allow EU IDs 7 – 11 listed in Table A to emit more than 19.2 tons of NOx per 12 consecutive months. Monitor, record, and report as follows:

16.1. Track fuel consumption for each of EU IDs 1 – 11 using either Condition 16.1.a or 16.1.b as follows:

a. Install, maintain, and operate on the emission units, totaling fuel flow meters that are accurate to within ± five-percent. Monitor and record the total fuel consumed in each of EU IDs 1 – 11 each month.

b. Record the startup and shutdown times for each of EU IDs 1 – 11 daily. Calculate and record fuel consumption in each of EU IDs 1 – 11, each month, using hours of operation and the maximum fuel consumption rates shown in Table B.

Table B – Maximum Fuel Consumption Rates

EU ID	Maximum Fuel Consumption Rate (gal/hr)
1-2	56.5 each
3a	61.8
4a	44.0
5	91.8
6	125.4
7	106.9
8	71.0
9	91.6
10	50.9
11	175.0

[6] Pre-construction Permit refers to federal PSD Permits, State-issued Permits-to-Operate issued before January 18, 1997 (these permits cover both construction and operations), Construction Permits issued after January 17, 1997, and Minor Permits issued after October 1, 2004.

16.2. Every calendar month, calculate and record total NOx emissions for EU IDs 1 – 6 (E_1) for the previous 12 consecutive months using the fuel tracking records required by Condition 16.1 and the equation:

$$E_1\,(tpy) = \left[\frac{(0.200)G_{1-2} + (0.310)G_{3a} + (0.294)G_{4a} + (0.665)G_5 + (0.710)G_6}{2000}\right]$$

Where:

G_{1-2} = gallons of fuel burned in EU IDs 1 and 2 in the preceding 12-months;
G_{3a} = gallons of fuel burned in EU ID 3a in the preceding 12-months;
G_{4a} = gallons of fuel burned in EU ID 4a in the preceding 12-months;
G_5 = gallons of fuel burned in EU ID 5 in the preceding 12-months; and
G_6 = gallons of fuel burned in EU ID 6 in the preceding 12-months.

a. Report the 12 consecutive month total NOx emissions for EU IDs 1 – 6 (E_1) recorded in Condition 16.2, in each operating report required under Condition 79, for each month covered by the report.

b. Report as excess emissions and permit deviation as required by Condition 78 any time the NOx emissions for EU IDs 1 – 6 (E_1) exceeds limit in Condition 16.

16.3. Every calendar month, calculate and record total NOx emissions for EU IDs 7 – 11 (E_2) for the previous 12 consecutive months using the fuel tracking records required by Condition 16.1 and the equation:

$$E_2\,(tpy) = \left[\frac{(0.030)G_7 + (0.014)G_8 + (0.040)G_9 + (0.027)G_{10} + (0.023)G_{11}}{2000}\right]$$

Where:

G_7 = gallons of fuel burned in EU ID 7 in the preceding 12 months;
G_8 = gallons of fuel burned in EU ID 8 in the preceding 12 months;
G_9 = gallons of fuel burned in EU ID 9 in the preceding 12 months;
G_{10} = gallons of fuel burned in EU ID 10 in the preceding 12 months; and
G_{11} = gallons of fuel burned in EU ID 11 in the preceding 12-months.

a. Report the 12 consecutive month total NOx emissions for EU IDs 7 – 11 (E_2) recorded in Condition 16.3, in each operating report required under Condition 79, for each month covered by the report.

b. Report as excess emissions and permit deviation as required by Condition 78 any time the total NOx emissions for EU IDs 7 – 11 (E_2) exceed 19.2 tons.

17. Periodic Verification of NOx PSD Avoidance. Within six (6) months after exceeding 80% of the NOx limits in Condition 16, 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 EU IDs 1 – 6 used in Table B.

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

17.2. Report in the operating report required under Condition 79, the results of any performance testing conducted.

17.3. For values obtained as a result of performance testing that exceed the values used in Table B or exceed the fuel specification emission factors[7] used to establish the PSD avoidance limit of Condition 16, the Permittee shall request a permit modification to incorporate the values obtained by performance testing.

17.4. The Permittee may test one of EU IDs 1 or 2 to represent both engines. The Permittee must select an engine that has not previously been tested, or, if both engines have been previously tested, the engine for which the longest time has elapsed since testing.

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

18. Limits to Ensure Compliance with State Ambient Air Quality Standard and Increment for NO_2. The Permittee shall not allow the stationary source to cause a violation of the state ambient air quality standard and increment for NO_2.

[18 AAC 50.010(2) & 50.020, 10/01/04]
[Minor Permit No. AQ0241MSS02, 12/28/11]
[18 AAC 50.326(a), 10/1/04] [40 C.F.R. 71.2 and 71.6(a)(1 & 3), 7/1/03]

18.1. The Permittee shall limit the Cumulative Equivalent Total fuel consumption in EU IDs 1 – 6 (CET_1), to no more than 1,440,700 gallons per 12 consecutive month period.

a. Every calendar month, calculate and record the CET_1 using the fuel tracking records required by Condition 16.1 and the equation:

$$CET_1 = (0.528)G_{1-2} + (0.819)G_{3a} + (0.776)G_{4a} + (1.755)G_5 + (1.873)G_6$$

Where:

G_{1-2} = gallons of fuel burned in EU IDs 1 and 2 in the preceding 12-months;
G_{3a} = gallons of fuel burned in EU ID 3a in the preceding 12-months;
G_{4a} = gallons of fuel burned in EU ID 4a in the preceding 12-months;
G_5 = gallons of fuel burned in EU ID 5 in the preceding 12-months; and
G_6 = gallons of fuel burned in EU ID 6 in the preceding 12-months.

Monitor, record, and report as follows:

b. Report the CET_1 records required under Condition 18.1.a for EU IDs 1 – 6 in each operating report required under Condition 79, for the months covered in the report.

c. Report as excess emissions and permit deviation, as described in Condition 78, any time the CET for EU IDs 1 – 6 exceeds the limit in Condition 18.1.

[7] NOx emission factors for EU IDs 1 – 6 are provided in the Statement of Basis of this permit.

18.2. The Permittee shall limit the Cumulative Equivalent Total for EU IDs 7 – 11 (CET_2), to no more than 1,637,228 gallons per 12 consecutive month period.

a. Every calendar month, calculate and record the CET_2 using the fuel tracking records required by Condition 16.1 and the equation:

$$CET_2 = (1.279)G_7 + (0.597)G_8 + (1.705)G_9 + (1.151)G_{10} + (0.981)G_{11}$$

Where:

G_7 = gallons of fuel burned in EU ID 7 in the preceding 12-months;
G_8 = gallons of fuel burned in EU ID 8 in the preceding 12-months;
G_9 = gallons of fuel burned in EU ID 9 in the preceding 12-months;
G_{10} = gallons of fuel burned in EU ID 10 in the preceding 12-months; and
G_{11} = gallons of fuel burned in EU ID 11 in the preceding 12-months.

Monitor, record, and report as follows:

b. Report the CET_2 records required under Condition 18.2.a for EU IDs 7 – 11 in each operating report required by Condition 79, for the months covered in the report.

c. Report as excess emissions and permit deviation, as described in Condition 78, any time the CET for EU IDs 7 – 11 exceeds the limit in Condition 18.2.

19. SO_2 Ambient Air Quality Protection. To protect the SO_2 Alaska Ambient Air Quality Standard and Increment for SO_2, the Permittee shall operate the stationary source as escribed below:

[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]

19.1. Limit the fuel consumption in EU IDs 1 – 11, combined, to no more than 3,077,928 gallons per 12 consecutive month period.

a. Monitor and record fuel consumption in EU IDs 1 – 11 as required under Conditions 16.1, 18.1.a, and 18.2.a.

b. Report in the operating report, required under Condition 79, for each month covered in the report, the combined fuel consumption in EU IDs 1 – 11 for the previous 12 consecutive month period, and calculations sufficient for an inspector to verify the totals, using the records required by Condition 19.1.a.

c. Report as excess emissions and permit deviation as described in Condition 78, any time the limit in Condition 19.1 is exceeded.

19.2. Limit the sulfur content of fuel combusted in EU IDs 1 – 11 to no more than 0.1 percent by weight.

a. Monitor and record in accordance with Conditions 12 through 14.

b. Report as excess emissions and permit deviation as described in Condition 78, any time the limit in Condition 19.2 is exceeded.

Insignificant Emission Units

20. 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:

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

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

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

[18 AAC 50.055(b)(1)]

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

[18 AAC 50.055(c)]

20.4. General monitoring, recordkeeping, and reporting (MR&R) for Insignificant Emission Units

a. The Permittee shall submit the certification of compliance of Condition 80 based on reasonable inquiry;

b. The Permittee shall comply with the requirements of Condition 60;

c. The Permittee shall report in the operating report required by Condition 79 if an emission unit is insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and actual emissions become greater than any of those thresholds; and

d. No other monitoring, recordkeeping or reporting is required.

[18 AAC 50.346(b)(4)]

Section 4. Federal Requirements

Emission Units Subject to Federal NSPS Subpart A

21. NSPS Subpart A Notification. For any affected facility[8] or existing facility[9] regulated under NSPS requirements in 40 C.F.R. 60, the Permittee shall furnish the Department and EPA written or electronic notification of:

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

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

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

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

[40 C.F.R. 60.7(a)(3), Subpart A]

21.3. any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies unless that change is specifically exempted under an applicable subpart or in 40 C.F.R. 60.14(e), postmarked 60 days or as soon as practicable before the change is commenced and shall include:

a. information describing the precise nature of the change,

b. present and proposed emission control systems,

c. productive capacity of the facility before and after the change, and

d. the expected completion date of the change;

[40 C.F.R. 60.7(a)(4), Subpart A]

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

[40 C.F.R. 60.7(a)(5), Subpart A]

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

[40 C.F.R. 60.7(a)(6), Subpart A]

8 Affected facility means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 C.F.R. 60.2, effective 7/1/07

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

21.6. that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during a performance test required in lieu of Method 9 observation data as allowed by 40 C.F.R. 60.11(e)(5), postmarked not less than 30 days prior to the date of the performance test; and

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

21.7. any proposed replacement of an existing facility, for which the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, postmarked as soon as practicable, but no less than 60 days before commencement of replacement, and including the following information:

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

a. the name and address of owner or operator,

b. the location of the existing facility,

c. a brief description of the existing facility and the components that are to be replaced,

d. a description of the existing and proposed air pollution control equipment,

e. an estimate of the fixed capital cost of the replacements, and of constructing a comparable entirely new facility,

f. the estimated life of the existing facility after the replacements, and

g. a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements .

22. NSPS Subpart A Startup, Shutdown, & Malfunction Requirements. The Permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of EU ID 4a, any malfunctions of associated air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for EU ID 4a is inoperative.

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

23. NSPS Subpart A Good Air Pollution Control Practice. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU ID 4a including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The Administrator will determine whether acceptable operating and maintenance procedures are being used based on information available, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of EU ID 4a.

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

24. NSPS Subpart A Credible Evidence. For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of the standards set forth in Condition 28 nothing in 40 C.F.R. Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU ID 4a would have been in compliance with applicable requirements of 40 C.F.R. Part 60 if the appropriate performance or compliance test or procedure had been performed.

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

25. 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 27.3. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[18 AAC 50.040(a)(1)]
[40 C.F.R. 60.12, Subpart A]

Compression Ignition CI ICE Subject to NSPS Subpart IIII

26. NSPS Subpart IIII Requirements. For EU ID 4a, the Permittee shall comply with any applicable requirement for stationary compression ignition (CI) internal combustion engine (ICE) whose construction,[10] modification,[11] or reconstruction[12] commences after July 11, 2005.

26.1. The Permittee must operate and maintain the stationary CI ICE that achieve the emission standards as required in Condition 28 over the entire life of the engine. Except as permitted under Condition 26.2, the Permittee must operate and maintain EU ID 4a and control device according to the manufacturer's emission-related written instructions. In addition, the Permittee may only change those settings that are permitted by the manufacturer, and the Permittee must meet the requirements of 40 C.F.R. Parts 89, 94 and/or 1068, as they apply to the Permittee.

[40 C.F.R. 60.4206 & 60.4211(a), Subpart IIII]

26.2. If the Permittee does not install, configure, operate, and maintain EU ID 4a and control device according to the manufacturer's emission-related written instructions, or changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance in accordance with Condition 26.2.a.

[10] For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.
[11] As defined in 18 AAC 50.990(59).
[12] As defined in 18 AAC 50.990(88).

a. You must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

[40 C.F.R. 60.4211(g)(3), Subpart IIII]

26.3. Comply with the applicable provisions of Subpart A as specified in Table 8 to Subpart IIII.

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

27. NSPS Subpart IIII Fuel Requirements. For EU ID 4a the Permittee must use diesel fuel that meets the following requirements of 40 C.F.R. 80.510(b) for nonroad diesel fuel:

27.1. Sulfur content of 15 ppm maximum per-gallon standards.

27.2. Cetane index or aromatic content as follows:

a. A minimum cetane index of 40; or

b. A maximum aromatic content of 35 volume percent.

[40 C.F.R. 60.4207(b), Subpart IIII & 40 C.F.R. 80.510(b), Subpart I]

27.3. 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 Condition 27. 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]

28. NSPS Subpart IIII Emission Standards. For EU ID 4a, the Permittee must comply with the emission standards for new CI engines in 40 C.F.R. 60.4201, as follows:

[18 AAC 50.040(a)(2)(OO) & (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

28.1. The Permittee shall not exceed the following applicable emission standards:

a. 6.4 g/kW-hr for NMHC + NOx;

b. 3.5 g/kW-hr for CO; and

c. 0.20 g/kW-hr for PM; and

d. Exhaust opacity of:

(i) 20 percent during the accelerating mode;

(ii) 15 percent during lugging mode; and

(iii) 50 percent during the peaks in either the acceleration or lugging modes.

[40 C.F.R. 60.4205(b) & 60.4202(a)(2), Subpart IIII]
[40 C.F.R. 89.112 & 89.113, Subpart B]

29. NSPS Subpart IIII Monitoring, Recordkeeping, and Reporting. For EU ID 4a, the Permittee shall comply with the following monitoring, recordkeeping, and reporting requirements:

[18 AAC 50.040(a)(2)(OO) & (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(i - Iii)]

29.1. You must demonstrate compliance with Condition 28 by purchasing an engine certified to the emission standards in Condition 28. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as specified in Condition 26.2.

[40 C.F.R. 60.4211(c), Subpart IIII]

29.2. Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to NSPS Subpart IIII must do so according to 40 C.F.R. 60.4212(a) through (e).

[40 C.F.R. 60.4212, Subpart IIII]

29.3. For the fuel requirements under Condition 27, monitor in accordance with Condition 12.

29.4. Keep records of the information in Conditions 29.4.a through 29.4.c:

a. Maintenance conducted on the engine;

b. If the stationary CI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards; and

c. If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

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

29.5. The Permittee shall maintain records that verify compliance with the diesel fuel requirements of Condition 27.

29.6. If EU ID 4a 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. 60.4209(b), 7/11/06]
[40 C.F.R. 63.6590(c), 7/11/06]

29.7. For EU ID 4a, demonstrate compliance according to one of the methods specified in Conditions 29.7.a through 29.7.e:

a. Purchasing an engine certified according to 40 C.F.R. Part 89 or 40 C.F.R. Part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications;

b. Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in Section 6 and these methods must have been followed correctly;

c. Keeping records of engine manufacturer data indicating compliance with the standards;

d. Keeping records of control device vendor data indicating compliance with the standards; and

e. Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in 40 C.F.R. 60.4212, as applicable.

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

30. NSPS Subpart IIII Reporting. The Permittee shall report in the operating report required by Condition 79 the following:

30.1. upon initial startup, provide a copy of the records required in Conditions 29.4.b or 29.4.c in the next operating report;

30.2. the method of compliance used to demonstrate compliance with Condition 29.7; and

30.3. the records required in Conditions 29.1 through 29.6.

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

Emission Units Subject to Federal NESHAP Subpart A

31. NESHAP Subpart A.

31.1. For EU IDs 1 – 3a, 5, and 6, the Permittee shall comply with the applicable requirements of 40 C.F.R. 63 Subpart A in accordance with the provisions for applicability of Subpart A in NESHAP Subpart ZZZZ, Table 8.

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

31.2. For EU IDs 7 – 10, the Permittee shall comply with the applicable requirements of 40 C.F.R 63 Subpart A in accordance with the provisions for applicability of Subpart A in NESHAP Subpart JJJJJJ, Table 8.

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

Reciprocating Internal Combustion Engines Subject to NESHAP Subpart ZZZZ

32. NESHAP Subpart ZZZZ Stationary Reciprocating Internal Combustion Engines. For EU IDs 1 – 3a, 5, and 6, the Permittee shall be in compliance with the applicable emission limitations, operating limitations, and other applicable requirements at all times.

[18 AAC 50.040(c)(23), (j)(4), and 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 63.6585(c), 63.6590(a)(1)(iii), 63.6595(a)(1), & 63.6605(a), Subpart ZZZZ]

32.1. Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with Subpart ZZZZ upon startup of the affected source.

32.2. Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.

[40 C.F.R. 63.6595(b)(1) and (2)]

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

33. Management Practices: For EU IDs 1 – 3a, 5, and 6, the Permittee shall comply with the following management practices for existing compression ignition stationary RICE:

33.1. Change oil and filter every 1,000 hours of operation or annually, whichever comes first[13];

33.2. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;

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

[13] The Permittee may use an oil analysis program as described in 40 C.F.R. 63.6625(i) to extend the specified oil change requirement in Condition 33.1. [ref. 40 C.F.R. 63, Subpart ZZZZ, Table 2d, footnote 1]

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

[40 C.F.R. 63.6603(b) and Table 2d]

34. General requirements: For EU IDs 1 – 3a, 5, and 6, the Permittee shall comply with the following:

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

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

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

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

[40 C.F.R. 63.6605(a) & (b), Subpart ZZZZ, 01/30/13]

34.3. You must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop 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.

[40 C.F.R. 63.6625(e) & (e)(3), Subpart ZZZZ]

34.4. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition 33.1. The oil analysis must be performed at the same frequency specified for changing the oil in Condition 33.1. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the

parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

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

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

35. Continuous Compliance: For EU IDs 1 – 3a, 5, and 6, the Permittee shall comply with the following:

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

35.1. You must demonstrate continuous compliance with each emission limitation, operating limitation, and other requirements in Condition 33 according to methods specified in Condition 35.1.a or 35.1.b.

a. Operating and maintaining 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.

[Table 6, Item 9, Subpart ZZZZ]

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

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

36. Notifications. The Permittee shall provide notification as set forth in 40 CFR 63.6645(a)(2) by the date specified for compliance in 40 CFR 63.6595(a)(1) and as in Condition 49.

[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6595(a)(1) and 63.6645(a)(2)]

37. Record Keeping. For EU IDs 1 – 3a, 5, and 6, the Permittee shall comply with the following:

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

[40 C.F.R. 63.6655(e), (e)(2) & (e)(3), Subpart ZZZZ]

37.2. Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

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

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

[40 C.F.R. 63.6660(b), Subpart ZZZZ]

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

[40 C.F.R. 63.6660(b), Subpart ZZZZ]

37.5. A copy of each notification and report that you submitted to comply with Subpart ZZZZ, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

37.6. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

37.7. Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

37.8. Records of all required maintenance performed on the air pollution control and monitoring equipment.

37.9. Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition 35, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[18 AAC 50.040(c)(23)]
[40 C.F.R. 63.6655 and 63.6660]

Boilers Subject to NESHAP Subpart JJJJJJ

38. NESHAP Subpart JJJJJJ Applicability and General Requirements. For EU IDs 7 – 10 listed in Table A, the Permittee shall comply with the applicable requirements for existing oil fired boilers located at an area source of HAP emissions.

[18 AAC 50.040(c)(39), 50.040(j) & 18 AAC 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 63.11193, 63.11194(a) and (b), 63.11200(e), & 63.11237(e), Subpart JJJJJJ]

38.1. The Permittee shall comply with the following compliance date requirements:

a. For EU IDs 7 – 10, an existing affected boiler, the Permittee must achieve compliance with the applicable provisions in NESHAP Subpart JJJJJJ as specified in Conditions 38.1.a(i) and 0.

(i) If the existing affected boiler is subject to a work practice or management practice standard of a tune-up, the Permittee must achieve compliance with the work practice or management practice standard no later than March 21, 2014.

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

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

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

39. NESHAP Subpart JJJJJJ Standards. For EU IDs 7 – 10 listed in Table A, the Permittee must comply with the management practices and work practice standards below. These standards apply at all times.

[18 AAC 50.040(j) and 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 63.11201, Subpart JJJJJJ]

39.1. Conduct a tune-up of the boiler biennially as specified in Condition 40.2.

[40 C.F.R. 63.11201(b) & Table 2, Item 4, Subpart JJJJJJ]

40. NESHAP Subpart JJJJJJ Continuous Compliance Requirements. For EU IDs 7 – 10, the Permittee shall demonstrate continuous compliance with the work practice and management practice standards in Condition 39 as follows:

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

40.1. You must conduct a performance tune-up according to Condition 40.2 and keep records as required in Condition 42 to demonstrate continuous compliance. You must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.

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

40.2. You must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in Conditions 40.2.a through 40.2.g. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.

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

a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, but you must inspect each burner at least once every 36 months).

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

c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection).

d. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.

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

f. Maintain onsite and submit, if requested by EPA or the Department, a report containing the information in Conditions 40.2.f(i) through 40.2.f(iii).

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

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

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

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

[40 C.F.R. 63.11223 (b)(1) through (7), Subpart JJJJJJ]

41. NESHAP Subpart JJJJJJ Notification Requirements. For EU IDs 7 – 10, the Permittee must submit to the Department and EPA the following notifications:

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

41.1. **Notification of Compliance Status.** You must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in Condition 38.1. You must submit the Notification of Compliance Status in accordance with Conditions 41.1.a and 41.1.e The Notification of Compliance Status must include the information and certification(s) of compliance in Conditions 41.1.a through 41.1.d as applicable, and signed by a responsible official.

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

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

b. "The facility complies with the requirements in 40 C.F.R. 63.11214 to conduct an initial tune-up of the boiler"

c. "This facility has had an energy assessment performed according to 40 C.F.R. 63.11214(c)".

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

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

[40 C.F.R. 63.11225(a)(4)(i) through (iii), (v), and (vi), Subpart JJJJJJ]

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

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

41.3. If the Permittee has switched fuels or made a physical change to the boiler and the fuel switch or change resulted in the applicability of a different subcategory within NESHAP Subpart JJJJJJ or in the boiler switching out of NESHAP Subpart JJJJJJ due to a change to 100 percent natural gas, the Permittee must provide notice of the date upon which you switched fuels or made the physical change within 30 days of the change. The notification must identify:

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

a. The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels or were physically changed, and the date of the notice.

b. The date upon which the fuel switch or physical change occurred.

[40 C.F.R. 63.11225(g)(1) and (2), Subpart JJJJJJ]

42. NESHAP Subpart JJJJJJ Recordkeeping Requirements. For EU IDs 7 – 10, the Permittee shall keep records as follows:

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

42.1. You must maintain the records specified in Conditions 42.1.a through 42.1.d.

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

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

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

b. You must keep records to document conformance with the work practices and management practices, as specified in Conditions 42.1.b(i) and 42.1.b(ii).

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

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

(ii) For each boiler required to conduct an energy assessment, you must keep a copy of the energy assessment report.

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

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

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

d. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Condition 38.2, including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

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

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

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

43. NESHAP Subpart JJJJJJ Reporting Requirements. For EU IDs 7 – 10, the Permittee shall report, as follows:

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

43.1. You must prepare, by March 1, and submit to the EPA and the Department upon request, a biennial compliance certification report for the previous two calendar years containing the information specified in Conditions 43.1.a and 43.1.b.

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

a. Company name and address;

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

[40 C.F.R. 63.11225(b)(1) and (2), Subpart JJJJJJ]

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

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

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

General Federal Requirements

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

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

Risk Management Plan (RMP) Requirements, 40 C.F.R. 68

45. RMP Requirements. The Permittee shall comply with the applicable requirements of 40 C.F.R. 68, including 40 C.F.R. 68.155 through 68.185 for all covered processes. The RMP shall be submitted in the method and format to the central point specified by EPA as of the date of submission. The Permittee shall revise and update the RMP submitted in accordance with 40 C.F.R. 68.190.

[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(3) & (c)(6)]
[40 C.F.R. 68.150 – 68.195]

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

Subpart F – Recycling and Emissions Reduction

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

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

Subpart G – Significant New Alternatives Policy

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

[18 AAC 50.040(d)]
[40 C.F.R. 82, Subpart G, §82.174 (b) - (d),]

Subpart H – Halon Emissions Reduction

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

[18 AAC 50.040(d)]
[40 C.F.R. 82, Subpart H, §82.270 (b)-(f)]

47. Chemical Accident Prevention Provisions. The Permittee shall comply with the requirements of 40 CFR 68.

[18 AAC 50.040(j); 18 AAC 50.326(j)]
[40 C.F.R. 71.6(a)]
[40 C.F.R. 68]

47.1. The Permittee shall provide the department with copies of the Risk Management Plan required under 40 C.F.R. 68 Subpart G as follows:

a. with the first operating report required in Condition 79 after issuance of this renewal operating permit.

b. with the operating report required in Condition 79 following updates of the Risk Management Plan as required under 40 C.F.R. 68 Subpart G.

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

47.2. As part of the Annual Compliance Certification required by Condition 80, the Permittee shall certify compliance with all requirements of 40 C.F.R. 68 including the registration and submission of the Risk Management Plan.

[18 AAC 50.040(j) & 18 AAC 50.326(j)]
[40 C.F.R. 71.6(a)(3)]
[40 C.F.R. 68.215(a)(2)]

48. NSPS and NESHAP Reports. The Permittee shall:

48.1. **Reports:** Attach to the operating report required by Condition 79 for the period covered by the report, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and

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

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

NESHAPs Applicability Determinations

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

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

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

Section 5. General Conditions

Standard Terms and Conditions

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

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

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

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

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

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

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

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

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

54.1. the stationary source's assessable potential to emit of 413 TPY; or

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

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

b. material balance calculations;

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

d. other methods and calculations approved by the Department.

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

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

55.1. 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

55.2. if no estimate is submitted on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit set forth in Condition 54.1.

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

56. Good Air Pollution Control Practice. The Permittee shall do the following for EU ID(s) 1 – 3a, 5, 6, and 7 through 11:

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

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

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

57. 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)]

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

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

58.1. The Permittee shall keep records of

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

b. any additional precautions that are taken

(i) to address complaints described in Condition 58.1 or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

58.2. The Permittee shall report according to Condition 60.

59. 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)]

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

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

60.1. Monitoring, Recordkeeping, and Reporting for Condition 60:

a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 78.

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 60.

60.2. 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 60; or

b. the Department notifies the Permittee that it has found a violation of Condition 60.

60.3. 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 60; and

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

60.4. With each operating report under Condition 79, 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.

60.5. 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.

60.6. 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 the scrubber system is not operating concurrently with the meal dryer evaporator system.

61. 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[14] listed in Condition(s) 21 through 48, the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 78 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 78.

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

Open Burning Requirements

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

62.1. 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.

62.2. Compliance with this condition shall be an annual certification conducted under Condition 80.

[18 AAC 50.065, 50.040(j), & 50.326(j)]
[40 C.F.R. 71.6(a)(3)]

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

Section 6. General Source Testing and Monitoring Requirements

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

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

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

[18 AAC 50.220(b)]

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

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

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

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

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

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

[18 AAC 50.040(b) & 50.220(c)(1)(B)]
[40 C.F.R. 61]

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

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

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

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

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

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

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

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

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

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

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

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

67. Test Exemption. The Permittee is not required to comply with Conditions 69, 70 and 71 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.1) or Smoke/No Smoke Plan (Condition 2.2).

[18 AAC 50.345(a)]

68. 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)]

69. Test Plans. Except as provided in Condition 67, before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the emission unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 63 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)]

70. Test Notification. Except as provided in Condition 67, 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)]

71. Test Reports. Except as provided in Condition 67, within 60 days after completing a source test, the Permittee shall submit two copies of the results in the format set out in the Source Test Report Outline, adopted by reference in 18 AAC 50.030. The Permittee shall certify the results in the manner set out in Condition 75. 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)]

72. Continuous Monitoring Systems. If required by terms and conditions of this permit, install, calibrate, conduct applicable continuous monitoring system performance specification tests listed in 40 C.F.R. 60, Appendix B, effective July 1, 1997, and certify test results; operate; and maintain air contaminant emissions and process monitoring equipment on the units as described herein. For EU ID(s) 1 through 5 submit no later than 60 days after the listed expiration date of this permit the monitoring equipment siting, operating, maintenance plans, and procedures for approval by the Department.

For continuous emission monitoring systems, comply with each applicable monitoring system requirement, as listed in 40 C.F.R. 60.13, 60.19, 40 C.F.R. 60, Appendix A, Method 19, Appendix B, Performance Specifications 2 and 6, and Appendix F, and the *EPA Quality Assurance Handbook For Air Pollution Measurements Systems*, EPA/600 R094/038b, effective July 1, 1997. Attach to the Facility Operating Report required by Condition 79.1) a copy of each quarterly continuous emission monitoring system data assessment report for Quality Assurance Procedures conducted in accordance with 40 C.F.R. 60, Appendix F; and 2) a copy of each quarterly monitoring system's performance report in accordance with 40 C.F.R. 60.7.

[18 AAC 50.320(a)(2)]

73. Particulate Matter Calculations. In source testing for compliance with the particulate matter standards in Conditions 5 and 20.2, the three-hour average is determined using the average of three one-hour test runs. The source testing must account for those emissions caused by soot blowing, grate cleaning, or other routine maintenance activities by ensuring that at least one test run includes the emissions caused by the routine maintenance activity and is conducted under conditions that lead to representative emissions from that activity. The emissions must be quantified using the following equation:

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

Where:

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

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

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

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

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

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

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

[18 AAC 50.220(f)]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

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

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

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

74.2. 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

75. 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.

75.1. 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 75.1.a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.

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

76. Submittals. Unless otherwise directed by the Department or this permit, the Permittee shall send an original and one copy of reports, compliance certifications, and other submittals required by this permit to ADEC, Air Permits Program, 610 University Ave., Fairbanks, AK 99709-3643, ATTN: Compliance Technician. The Permittee may, upon consultation with the Compliance Technician regarding software compatibility, provide electronic copies of data reports, emission source test reports, or other records under a cover letter certified in accordance with Condition 75.

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

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

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

78. Excess Emissions and Permit Deviation Reports.

78.1. Except as provided in Condition 60, the Permittee shall report all emissions or operations that exceed or deviate from the requirements of this permit as follows:

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

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

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

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

c. report all other excess emissions and permit deviations

(i) within 30 days of the end of the month in which the excess emissions or deviation occurred, except as provided in Conditions 78.1.c(ii) and 78.1.c(iii);

(ii) if a continuous or recurring excess emissions is not corrected within 48 hours of discovery, within 72 hours of discovery unless the Department provides written permission to report under Condition 78.1.c(i); and

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

78.2. When reporting excess emissions or permit deviations, the Permittee shall report using either the Department's on-line form, which can be found at http://www.dec.state.ak.us/air/ap/site.htm or 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.

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

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

79. Operating Reports. During the life of this permit[15], the Permittee shall submit to the Department an original and one copy of an operating report by August 1 for the period January 1 to June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.

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

79.2. If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 79.1,

a. The Permittee shall identify

(i) the date of the deviation;

(ii) the equipment involved;

(iii) the permit condition affected;

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

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

b. When excess emissions or permit deviations have already been reported under Condition 78 the Permittee shall cite the date or dates of those reports.

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

a. the date of the emissions;

b. the equipment involved;

c. the permit condition affected; and

d. the monitoring result which triggered the additional monitoring.

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

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

80. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department an original and one copy of an annual compliance certification report[16].

80.1. Certify the compliance status of the stationary source over the preceding calendar

[15] *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.
[16] See Condition 80.2 for clarification on the number of reports required.

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;

80.2. **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.

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

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

81. Emission Inventory Reporting. The Permittee shall submit to the Department reports of actual emissions, by emission unit, of CO, NH_3, NO_X, PM_{10}, $PM_{2.5}$, SO_2, VOCs and Lead (Pb) (and lead compounds) using the form in Section 14 of this permit, as follows:

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

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

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

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

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

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

81.3. The Permittee shall commence reporting in 2016 for the calendar year of 2015, 2020 for calendar year 2019, etc.

81.4. Include in the report required by this condition, the required data elements contained within the form in Section 14 or those contained in Table 2A of Appendix A to Subpart A of 40 CFR 51 (final rule published in 73 FR 76556 (December 17, 2008)) for each stack associated with an emission unit.

[18 AAC 50.346(b)(8) and18 AAC 50.200]
[40 CFR 51.15, 51.30(a)(1) & (b)(1) and 40 CFR 51, Appendix A to Subpart A, 73 FR 76556 (12/17/08)]

Section 8. Permit Changes and Renewal

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

82.1. 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[17];

82.2. The information shall be submitted to the same address as in Condition 80.3.

82.3. 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

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

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

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

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

84. 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:

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

84.2. 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;

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

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

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

[17] The documents required in Condition 82.1 are submitted to the Department's Anchorage office. The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501.

85. 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):

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

85.2. 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.

85.3. The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 85.

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

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

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

Section 9. Compliance Requirements

General Compliance Requirements

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

87.1. included and specifically identified in the permit; or

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

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

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

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

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

a. an enforcement action;

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

c. denial of an operating permit renewal application.

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

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

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

90. 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

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

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

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

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

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

Compliance Schedule

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

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

Section 10. Permit As Shield from Inapplicable Requirements

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

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

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

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

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

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

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

Table C - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for non-applicability
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 Unit 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 Unit 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

EU ID	Non-Applicable Requirements	Reason for non-applicability
Storage Tanks 12, 13 (not listed in Table A - Emission Unit 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
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 – 3a, 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 EMISSION OBSERVATION FORM

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

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

  Wet Bulb Temperature: can be measured using a sling psychrometer

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

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

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

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

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

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

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

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

Page No._____

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

Data Reduction:

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

Average Opacity Summary:

Set Number	Time			Opacity		
	Start	End		Sum	Average	Comments

Section 12. Material Balance Calculation

If the sulfur content of a fuel shipment is greater than 0.75 percent by weight, calculate the three-hour exhaust concentration of SO_2 using the following equations:

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

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

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

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

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

F. = 21 – [**vol%$_{dry}$O2, $_{exhaust}$**] = 21 - _____ = _____

G. = [**vol%$_{dry}$O2, $_{exhaust}$**] ÷ F = _____ ÷ _____ = _____

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

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

SO_2 concentration = A ÷ I = _____ ÷ _____ = _____ ppm

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

The fuel weight percent (wt%) of sulfur is obtained pursuant to Condition 14.1. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (vol%$_{dry}O_2$, exhaust) is obtained from oxygen meters, manufacturer's data, or from the most recent ORSAT analysis at the same engine load used in the calculation.

Enter all of the data in percentages without dividing the percentages by 100. For example, if wt%S_{fuel}l = 1.0%, then enter 1.0 into the equations not 0.01 and if vol%$_{dry}O_2$, exhaust = 3.00%, then enter 3.00, not 0.03.

[18 AAC 50.346(c)]

Section 13. ADEC Notification Form[18]

Unalaska Seafood Processing Facility	AQ0241TVP04
Stationary Source Name	**Air Quality Permit No.**
Alyeska Seafoods, Inc.	
Company Name	**Date**

When did you discover the Excess Emissions/Permit Deviation?

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

When did the event/deviation occur?

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

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

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

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

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

☐ Excess Emissions – Complete Section 1 and Certify

☐ Deviation from Permit Condition – Complete Section 2 and Certify

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

Section 1. Excess Emissions

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

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

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

☐ Control Equipment Failure ☐ Schedule Maintenance/Equipment Adjustment

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

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

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

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

[18] Revised as of August 20, 2008.

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

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

☐ Fugitive Emissions ☐ Emission Limit Exceeded ☐ Other _____

☐ Marine Vessel Opacity ☐ Flaring _____

(f) Unavoidable Emissions:

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

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

Certify Report (Go to end of form.)

Section 2. Permit Deviations

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

☐ Emission Unit-Specific

☐ Failure to Monitor/Report

☐ General Source Test/Monitoring Requirements

☐ Recording/Reporting/Compliance Certification

☐ Standard Conditions Not Included in the Permit

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

☐ Generally Applicable Requirements

☐ Reporting/Monitoring for Diesel Engines

☐ Recordkeeping Failure

☐ Insignificant Emission Unit

☐ Stationary Source Wide

(b) Emission Unit Involved:

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

EU ID	EU Name	Permit Condition/ Potential Deviation

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

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

Certification:

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

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

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

To Submit this Report:

Fax to: 907-451-2187

Or

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

If faxed or emailed, the report must be certified within the Operating Report required for the same reporting period per Condition 79.

Or

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

Or

Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

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

https://myalaska.state.ak.us/dec/air/airtoolsweb/

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

[18 AAC 50.346(b)(3)]

Section 14. Emission Inventory Form

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

Mandatory information is highlighted. Make additional copies as needed.

Inventory start date:	
Inventory end date:	
Inventory Type:	

Facility Information:

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

Emission Unit:

ID:	
Description:	
Manufacturer:	
Model Number:	
Serial Number:	
Year of Manufacture:	

Maximum Nameplate Capacity:	
Design Capacity (BTU/hr):	
Control Equipment (List All):	
	Control Equipment Type(Primary or Secondary):
	ID:
	Type:
	Manufacturer:
	Model:
	Control Efficiency (%):
	Capture Efficiency (%):
	Total Capture Efficiency (%):
	Pollutants Controlled
	-

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

	Spring %:
	Days/Week of Operation:
	Weeks/Year of Operation:
	Hours/Day of Operation:
	Hours/Year of Operation:

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

Stack Description:	
	Stack Detail:
	ID:
	Type:
	Measurement Units:
	Base Elevation:
	Stack Height:
	Stack Diameter:
	Exit Gas Temp:
	Exit Gas Velocity:
	Actual Exit Gas Flow Rate:
	Data Source:
	Description:

	Latitude:
	Longitude:
	Location Description:
	Accuracy (m):
	Datum:

Certification:

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

Printed Name:_____Title_____Date _____

Signature:_____ Phone number_____

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

To Submit this report:

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

Or

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

[18 AAC 50.346(b)(9)]