

# DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## AIR QUALITY OPERATING PERMIT

Permit No. AQ1086TVP02

Issue Date: February 2, 2022

Revision 1: Draft Date – January 13, 2026

Expiration Date: February 2, 2027

The Alaska Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **Matanuska Electric Association, Inc.**, for the operation of the **Eklutna Generation Station**.

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 the effective version of 18 AAC 50 at permit issuance. All federal regulation citations are from those sections adopted by reference in this version of regulation in 18 AAC 50.040 unless otherwise specified.

All currently applicable stationary source-specific terms and conditions of Air Quality Minor Permit AQ1086MSS03 Revision 1 have been incorporated into this operating permit.

This operating permit revision becomes effective <insert date – 30 days after issue date>.

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James R. Plosay, Manager  
Air Permits Program

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## Abbreviations and Acronyms

AAC.....	Alaska Administrative Code	MMBtu/hr .....	million British thermal units per hour
ADEC .....	Alaska Department of Environmental Conservation	MR&R.....	monitoring, recordkeeping, and reporting
Administrator.....	EPA and the Department	MW .....	Megawatt
AOS .....	Air Online Services	NAICS.....	North American Industrial Classification System
AS .....	Alaska Statutes	NESHAP .....	National Emission Standards for Hazardous Air Pollutants [as contained in 40 CFR 61 and 63]
ASTM.....	American Society for Testing and Materials	NG.....	natural gas
BACT .....	best available control technology	NO <sub>x</sub> .....	nitrogen oxides
CatOx.....	catalytic oxidation	NO <sub>2</sub> .....	nitrogen dioxide
CAA or The Act .	Clean Air Act	NSPS .....	New Source Performance Standards [as contained in 40 CFR 60]
CBI .....	confidential business information	O <sub>2</sub> .....	oxygen
CDX.....	central data exchange	ORL.....	owner requested limit
CEDRI.....	compliance and emissions data reporting interface	PM <sub>10</sub> .....	particulate matter less than or equal to a nominal ten microns in diameter
CFR .....	Code of Federal Regulations	PM <sub>2.5</sub> .....	particulate matter less than or equal to a nominal 2.5 microns in diameter
CH <sub>2</sub> O .....	formaldehyde	ppm .....	parts per million
CO .....	carbon monoxide	ppmv, ppmvd .....	parts per million by volume on a dry basis
CO <sub>2</sub> e .....	CO <sub>2</sub> -equivalent	PSD .....	Prevention of Significant Deterioration
CROMERR.....	Cross-Media Electronic Reporting Rule	PTE .....	potential to emit
Department .....	Alaska Department of Environmental Conservation	SCR.....	selective catalytic reduction
EPA .....	US Environmental Protection Agency	SIC. ....	Standard Industrial Classification
ERT .....	Electronic Reporting Tool	SIP.....	State Implementation Plan
EU ID .....	emissions unit identification	SO <sub>2</sub> .....	sulfur dioxide
GAPCP .....	Good Air Pollution Control Practice	tpy .....	tons per year
GHG .....	Greenhouse Gas	ULSD .....	ultra-low sulfur diesel
HAP .....	hazardous air pollutants [as defined in AS 46.14.990]	VOC .....	volatile organic compound [as defined in 40 CFR 51.100(s)]
hp.....	horsepower		
H <sub>2</sub> S.....	hydrogen sulfide		
kW .....	kilowatt		
LAER.....	lowest achievable emission rate		
MACT .....	maximum achievable control technology [as defined in 40 CFR 63]		

**Section 1. Stationary Source Information**

**Identification**

Permittee:	<b>Matanuska Electric Association, Inc.</b> P.O. Box 2929 Palmer, AK 99645	
Stationary Source Name:	<b>Eklutna Generation Station</b>	
Location:	61° 27' 35.4" North; 149° 20' 33.9" West	
Physical Address:	28705 Dena'ina Elders Road Chugiak, AK 99567	
Owner/Operator:	<b>Matanuska Electric Association, Inc.</b> P.O. Box 2929 Palmer, AK 99645	
Permittee's Responsible Official and Designated Agent:	Joshua Crowell, Senior Manager of Power Supply P.O. Box 2929 Palmer, AK 99645	
Stationary Source and Building Contact:	Traci Bradford, Environmental Engineer P.O. Box 2929 Palmer, AK 99645 907-761-9374 <a href="mailto:traci.bradford@mea.coop">traci.bradford@mea.coop</a>	
Fee Contact:	Traci Bradford, Environmental Engineer P.O. Box 2929 Palmer, AK 99645 907-761-9374	
Permit Contact:	Traci Bradford, Environmental Engineer P.O. Box 2929 Palmer, AK 99645 907-761-9374 <a href="mailto:traci.bradford@mea.coop">traci.bradford@mea.coop</a>	
Process Description	SIC Code:	4911 – Electric services
	NAICS Code:	221112 – Fossil fuel electric power generation

[18 AAC 50.040(j)(3) & 50.326(a)]  
 [40 CFR 71.5(c)(1) & (2)]

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

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

**Table A - Emissions Unit Inventory**

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Size	Fuel	Construction Date
1	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
2	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
3	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
4	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
5	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
6	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
7	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
8	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
9	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
10	Generator Engine	Wartsila 18V50DF	17.1 MW	Natural Gas /ULSD	March 2012
11	Fire Pump Engine	John Deere JU6H-UFADN0	197 hp	ULSD	June 2012
12	Black Start Generator Engine	Cummins 1000DQFAD	1,490 hp	ULSD	June 2013
13	Auxiliary Boiler	Cleaver-Brooks FLX200-1650	15.75 MMBtu/hr	Natural Gas /ULSD	June 2013
14	Auxiliary Boiler	Cleaver-Brooks FLX200-1650	15.75 MMBtu/hr	Natural Gas /ULSD	June 2013
17	NG Fuel Heater	Aether C5-G30	8.3 MMBtu/hr	Natural Gas	September 2016
18	Black Start Generator Engine	Cummins 1000DQFAD	1,490 hp	ULSD	June 2013

[18 AAC 50.326(a)]  
 [40 CFR 71.5(c)(3)]

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

#### **Visible Emissions Standard**

- 1. Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1 through 14, 17, and 18 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.040(j)(4), 50.055(a)(1), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(1)]

- 1.1. For EU ID 11, as long as the emissions unit does not exceed the limit in Condition 14, monitoring shall consist of an annual compliance certification under Condition 65 for the visible emission standard based on reasonable inquiry. Otherwise, monitor, record and report in accordance with Conditions 2 through 4 for the remainder of the permit term.
- 1.2. For each of EU IDs 12 and 18, as long as the emissions unit does not operate more than 233 hours<sup>1</sup> during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 65 with the visible emission standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 64 if EU ID 12 or EU ID 18 operates more than 233 hours during any consecutive 12-month period and monitor, record and report in accordance with Conditions 2 through 4 for the remainder of the permit term for that emissions unit.
- 1.3. For EU IDs 1 through 10, 13, and 14, burn natural gas as the primary fuel. Monitoring for these emissions units shall consist of a statement in each operating report required under Condition 64 indicating whether each of these emissions units burned natural gas as the primary fuel during the period covered by the report. If any of these units operated exclusively on ULSD during the period covered by the report, the Permittee shall monitor, record, and report in accordance with Condition 9 for that emissions unit.
- 1.4. For EU ID 17, burn only natural gas as fuel. In each operating report under Condition 64, indicate whether the emissions unit burned only natural gas during the period covered by the report. Report under Condition 63 if any fuel other than natural gas is burned.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)]

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<sup>1</sup> Annual operation of 234 hours is equivalent to the worst-case significant emissions threshold in 18 AAC 50.326(e) for EU IDs 12 and 18.

## Visible Emissions Monitoring, Recordkeeping and Reporting (MR&R)

### *Liquid Fuel-Burning Equipment*

- 2. Visible Emissions Monitoring.** When required by Condition 1.1 or 1.2, or in the event of replacement<sup>2</sup> during the permit term, the Permittee shall observe the exhaust of EU IDs 11, 12, and 18 for visible emissions using either the Method 9 Plan under Condition 2.3 or the Smoke/No-Smoke Plan under Condition 2.4.
- 2.1. The Permittee may change the visible emissions monitoring plan for an emissions unit at any time unless prohibited from doing so by Condition 2.5.
- 2.2. The Permittee may, for each unit, elect to continue the visible emissions monitoring schedule specified in Conditions 2.3.b through 2.3.e or Conditions 2.4.b through 2.5 that remains in effect from a previous permit.
- 2.3. **Method 9 Plan.** For all observations in this plan, observe emissions unit exhaust, following 40 CFR 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations.<sup>3</sup>
- a. First Method 9 Observation. Except as provided in Condition 2.2 or Condition 2.5.c(ii), observe the exhausts of EU IDs 11, 12 and 18 according to the following criteria:
- (i) For any unit, observe emissions unit exhaust within 14 calendar days after changing from the Smoke/No-Smoke Plan of Condition 2.4
- (ii) For any unit replaced, observe exhaust within 60 days of the newly installed emissions unit becoming fully operational.<sup>4</sup> Except as provided in Condition 2.3.e, after the First Method 9 observation:
- (A) For EU IDs 11, 12, and 18, comply with Conditions 1.1 and 1.2, as applicable.
- (iii) For each of EU IDs 11, 12, and 18, observe the exhaust of the emissions unit within 30 days after the end of the calendar month during which monitoring was triggered under Condition 1.1 or 1.2; or for an emissions unit with intermittent operations, within the first 30 days during the units next scheduled operation.
- b. Monthly Method 9 Observations. After the first Method 9 observation conducted under Condition 2.3.a, perform observations at least once in each calendar month that the emissions unit operates.

<sup>2</sup> “Replacement,” as defined in 40 CFR 51.166(b)(32).

<sup>3</sup> Visible emissions observations are not required during emergency operations

<sup>4</sup> “Fully operational” means upon completion of all functionality checks and commissioning after unit installation. “Installation” is complete when the unit is ready for functionality checks to begin.

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- c. Semiannual Method 9 Observations. After at least three monthly observations under Condition 2.3.b, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform semiannual observations:
    - (i) no later than seven months, but not earlier than five months, after the preceding observation, or
    - (ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following seven months after the preceding observation.
  - d. Annual Method 9 Observations. After at least two semiannual observations under Condition 2.3.c, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform annual observations:
    - (i) no later than 12 months, but not earlier than 10 months, after the preceding observation; or
    - (ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following 14 months after the preceding observation.
  - e. Increased Method 9 Frequency. If a six-consecutive-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more individual observations are greater than 20 percent, then increase or maintain the observation frequency for that emissions unit to at least monthly intervals as described in Condition 2.3.b, and continue monitoring in accordance with the Method 9 Plan.
- 2.4. **Smoke/No Smoke Plan.** Observe the emissions unit exhaust for the presence or absence of visible emissions, excluding condensed water vapor.
- a. Initial Monitoring Frequency. Observe the emissions unit exhaust during each calendar day that the emissions unit operates for a minimum of 30 days.
  - b. Reduced Monitoring Frequency. If the emissions unit operates without visible emissions for 30 consecutive operating days as required in Condition 2.4.a, observe the emissions unit exhaust at least once in every calendar month that the emissions unit operates.
  - c. Smoke Observed. If visible emissions are observed, comply with Condition 2.5.
- 2.5. **Corrective Actions Based on Smoke/No Smoke Observations.** If visible emissions are present in the emissions unit exhaust during an observation performed under the Smoke/No Smoke Plan of Condition 2.4, then the Permittee shall either begin the Method 9 plan of Condition 2.3, or

- a. initiate actions to eliminate visible emissions from the emissions unit exhaust 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 visible emissions; and
- c. after completing the actions required under Condition 2.5.a,
  - (i) conduct smoke/no smoke observations in accordance with Condition 2.4.
    - (A) at least once per day for the next seven operating days and, if applicable, until the initial 30-day observation period of Condition 2.4.a is completed; and
    - (B) continue as described in Condition 2.4.b; or
  - (ii) if the actions taken under Condition 2.5.a do not eliminate the visible emissions, or if subsequent visible emissions are observed under the schedule of Condition 2.5.c(i)(A), then observe the emissions unit exhaust using the Method 9 Plan unless the Department gives written approval to resume observations under the Smoke/No Smoke Plan. After observing visible emissions and making observations under the Method 9 Plan, the Permittee may at any time, take corrective action that eliminates visible emissions and restart the Smoke/No Smoke Plan under Condition 2.4.a.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)(i)]

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

3.1. For all Method 9 Plan observations,

- a. the observer shall record the following:
  - (i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emission Observation Form in Section 10;
  - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (load or fuel consumption rate 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 in Section 10, 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-consecutive-minute average opacity,
    - (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
    - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
    - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24;
    - (iv) record the average opacity on the sheet.
  - c. Calculate and record the highest six-consecutive- and 18-consecutive-minute average opacities observed.
- 3.2. If using the Smoke/No Smoke Plan of Condition 2.4, 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. the EU ID of the emissions unit observed;
  - c. whether visible emissions are present or absent in the emissions unit exhaust;
  - d. a description of the background to the exhaust during the observation;
  - e. if the emissions unit starts operation on the day of the observation, the startup time of the emissions unit;
  - f. name and title of the person making the observation; and
  - g. operating rate (load or fuel consumption rate or best estimate, if unknown).
- 3.3. The records required by Conditions 3.1 and 3.2 may be kept in electronic format.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)(ii)]

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

- 4.1. In the first operating report required in Condition 64 under this permit term, the Permittee shall state the intention to either continue the visible emissions monitoring schedule in effect from the previous permit or rest the visible emissions monitoring schedule.

- 4.2. Include in each operating report required under Condition 64 for the period covered by the report:
- a. which visible-emissions plan of Condition 2 was used for each emissions unit; if more than one plan was used, give the time periods covered by each plan;
  - b. for all Method 9 Plan observations:
    - (i) copies of the observation results (i.e. opacity observations) for each emissions unit, 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-consecutive- and 18-consecutive-minute average opacities observed; and
      - (C) dates when one or more observed six-consecutive-minute average opacities were greater than 20 percent;
  - c. for each emissions unit under the Smoke/No Smoke Plan, the number of days that smoke/no smoke observations were made and which days, if any, that visible emissions were observed; and
  - d. a summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done.
- 4.3. Report under Condition 63:
- a. the results of Method 9 observations that exceed 20 percent average opacity for any six-consecutive-minute period; and
  - b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)(iii)]

### **Particulate Matter (PM) Emissions Standard**

- 5. Industrial Process and Fuel-Burning Equipment PM Emissions.** The Permittee shall not cause or allow PM emitted from EU IDs 1 through 14, 17, and 18 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)(4), 50.055(b)(1), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(1)]

- 5.1. For EU ID 11, as long as the emissions unit does not exceed the limit in Condition 14, monitoring shall consist of an annual compliance certification under Condition 65 for the PM emissions standard based on reasonable inquiry. Otherwise, monitor, record and report in accordance with Conditions 6 through 8 for the remainder of the permit term.
- 5.2. For each of EU IDs 12 and 18, as long as the emissions unit does not operate more than 233 hours during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 65 with the PM emission standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 64 if EU ID 12 or EU ID 18 operates more than 233 hours during any consecutive 12-month period and monitor, record and report in accordance with Conditions 6 through 8 for the remainder of the permit term for that emissions unit.
- 5.3. For EU IDs 1 through 10, 13, and 14, the Permittee shall comply with Condition 1.3.
- 5.4. For EU ID 17, the Permittee shall comply with Condition 1.4.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)]

## Particulate Matter MR&R

### *Liquid Fuel-Burning Engines*

6. **Particulate Matter Monitoring.** The Permittee shall conduct source tests on EU IDs 11, 12 and 18 to determine the concentration of PM in the exhaust of each of the emissions units as follows:
  - 6.1. If the result of any Method 9 observation conducted under Condition 2.3 for any of EU IDs 11, 12, and 18 is greater than the criteria of Conditions 6.2.a or 6.2.b, or if the Method 9 observation conducted under Condition 9.3 for EU IDs 1 through 10 exceeds the standard in Condition 1, the Permittee shall, within six months of that Method 9 observation, either
    - a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 CFR 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than the criteria of Condition 6.2; or
    - b. except as exempted under Condition 6.4, conduct a PM source test according to requirements set out in Section 6.
  - 6.2. Take corrective action or conduct a PM source test in accordance with Condition 6.1, if any Method 9 observation under Condition 2.3 results in an 18-minute average opacity greater than
    - a. 20 percent for an emissions unit with an exhaust stack diameter that is equal to or greater than 18 inches; or

- b. 15 percent for an emissions unit with an exhaust stack diameter that is less than 18 inches, unless the Department has waived this requirement in writing.
- 6.3. During each one-hour PM source test run under Condition 6.1.b, observe the emissions unit exhaust for 60 minutes in accordance with Method 9 and calculate the highest 18-consecutive-minute average opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.
- 6.4. The PM source test requirement in Condition 6.1.b are waived for an emissions unit if:
- a. a source test on that unit has shown compliance with the PM standard during this permit term; or
  - b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations (as described in Condition 2.3) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 6.2.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)(i)]

7. **Particulate Matter Recordkeeping.** The Permittee shall keep records of the results of any source test and visible emissions observations conducted under Condition 6.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)(ii)]

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

- 8.1. Notify the Department of any Method 9 observation results that are greater than the threshold of either Condition 6.2.a or 6.2.b within 30 days of the end of the month in which the observations occurred. Include the dates, EU ID(s), and results when an observed 18-minute average opacity was greater than an applicable threshold in Condition 6.2.
- 8.2. In each operating report under Condition 64, include:
- a. a summary of the results of any PM source test and visible emissions observations conducted under Condition 6; and
  - b. copies of any visible emissions observation results greater than the thresholds of Condition 6.2, if they were not already submitted.
- 8.3. Report in accordance with Condition 63:
- a. anytime the results of a source test exceed the PM emissions standard in Condition 5; or
  - b. if the requirements under Condition 6.1 were triggered and the Permittee did not comply on time with either Condition 6.1.a or 6.1.b. Report the deviation within 24 hours of the date compliance with Condition 6.1 was required.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(3)(iii)]

## Visible Emissions & Particulate Matter MR&R

### *Dual Fuel-Burning Equipment*

9. The Permittee shall monitor, record, and report the monthly hours of operation of EU IDs 1 through 10, 13, and 14 when operating exclusively on ULSD.
  - 9.1. For any of EU IDs 1 through 10, 13, and 14 that does not exceed 400 hours of operation per calendar year on ULSD exclusively, monitoring of compliance for visible emissions and PM shall consist of an annual compliance certification under Condition 65 based on reasonable inquiry.
  - 9.2. For any of EU IDs 1 through 10, 13, and 14, notify the Department and begin monitoring the affected emissions unit in accordance with Condition 9.3 no later than 15 days after the end of a calendar month in which the cumulative hours of operation for the calendar year exceed any multiple of 400 hours on ULSD exclusively; or for an emissions unit with intermittent ULSD use, during the next scheduled operation on ULSD exclusively.
  - 9.3. When required to do so by Condition 9.2, observe the emissions unit exhaust, following 40 CFR 60, Appendix A-4 Method 9, for 18-minutes to obtain 72 consecutive 15-second opacity observations.
    - a. If the observation exceeds the standard in Condition 1, monitor EU IDs 1 through 10 as described in Condition 6 and monitor, record, and report for EU IDs 13 and 14 as follows:
      - (i) Within six months of that Method 9 observation, either:
        - (A) take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 CFR 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than an 18-minute average opacity of 20 percent; or
        - (B) conduct a PM source test according to the requirements in Section 6. The PM source test is waived for an emissions unit if a source test on that unit has shown compliance with the PM standard during this permit term or if corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 observations conducted thereafter within a six-month period show visible emissions less than 20 percent average opacity.

- (ii) During each one-hour PM source test run under Condition 9.3.a(i)(B), observe the emissions unit exhaust for 60 minutes in accordance with Method 9 and calculate the highest 18-consecutive-minute average opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.
  - (iii) Keep records of the results of any source test and visible emissions observations conducted under Conditions 9.3.a(i) and 9.3.a(ii).
  - (iv) Notify the Department of any Method 9 observation that results in an 18-minute average opacity greater than 20 percent within 30 days of the end of the month in which the observations occurred. Include the dates, EU ID(s), and results when an observed 18-minute average opacity was greater than 20 percent.
  - (v) In each operating report required by Condition 64, include:
    - (A) a summary of the results of any source test and visible emissions observations conducted under Conditions 9.3.a(i) and 9.3.a(ii).
    - (B) copies of any visible emissions observation results greater than the threshold in Condition 9.3.a(iv), if they were not already submitted.
  - (vi) Report in accordance with Condition 63 any time the results of a source test exceed the PM emission standard in Condition 5.
- b. If the observation does not exceed the standard in Condition 1, no additional monitoring is required until the cumulative hours of operation exceed each subsequent multiple of 400 hours on ULSD exclusively, during a calendar year.<sup>5</sup>
- 9.4. Keep records and report in accordance with Conditions 3, 4, 7, 8, and 9.3.a(iii) through 9.3.a(vi), as applicable.
- 9.5. Report under Condition 63 if the Permittee fails to comply with any of Conditions 9.2 through 9.4.

[18 AAC 50.040(j)(4), 50.326(j)(3) & (4), & 50.346(c)]  
[40 CFR 71.6(a)(3) & 71.6(c)(6)]

### **Sulfur Compound Emissions Standard**

**10. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from EU IDs 1 through 14, 17, and 18 to exceed 500 ppm averaged over three hours.

[18 AAC 50.040(j)(4), 50.055(c), 50.326(j)(3), & 50.346(c)]  
[40 CFR 71.6(a)(1)]

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<sup>5</sup> If the requirement to monitor is triggered more than once in a calendar month, only one Method 9 observation is required to be conducted by the stated deadline for that month.

## Sulfur Compound Emissions MR&R

- 11. Sulfur Compound Emissions MR&R.** To ensure compliance with Condition 10, the Permittee shall comply as follows:

### *Fuel Oil*<sup>6</sup>

- 11.1. **Liquid Fuel-Burning Equipment.** For EU IDs 1 through 14 and 18, comply with the fuel sulfur content limit and associated MR&R requirements in Condition 12.2.

### *Fuel Gas*

- 11.2. **Natural Gas-Burning Equipment.** For EU IDs 1 through 10, 13, 14 and 17, comply with the fuel sulfur content limit and associated MR&R requirements in Condition 12.1.

[18 AAC 50.040(j)(4), & 50.326(j)(3)]  
[40 CFR 71.6(a)(3) & (c)(6)]

## Preconstruction Permit<sup>7</sup> Requirements

### *Owner Requested Limits (ORLs) to Avoid Minor Permitting under 18 AAC 50.502(c)(1)(C)*

- 12. Fuel Sulfur Requirements.** The Permittee shall monitor the sulfur content of the ULSD and hydrogen sulfide (H<sub>2</sub>S) content of the natural gas burned as follows.

- 12.1. The H<sub>2</sub>S content of the natural gas burned in EU IDs 1 through 10, 13, 14, and 17 shall not exceed 20 parts per million by volume (ppmv).
- a. Monitor and record the H<sub>2</sub>S content of the natural gas monthly by obtaining and keeping a current certified letter, valid purchase contract, tariff sheet, or transportation contract from the supplier stipulating that the natural gas supplied during the month does not contain more than 20 ppmv H<sub>2</sub>S.
  - b. Report in the operating report under Condition 64 the monthly H<sub>2</sub>S content of the natural gas.
  - c. Report under Condition 63 if the H<sub>2</sub>S content of the natural gas exceeds 20 ppmv.
- 12.2. The sulfur content of the diesel fuel burned in EU IDs 1 through 10, 13, and 14 when burning diesel and in EU IDs 11, 12, and 18 shall not exceed 15 parts per million by weight (ppmw) of sulfur.

<sup>6</sup> "Oil" means crude oil or petroleum, or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 CFR 60.41b.

<sup>7</sup> "Preconstruction Permit" refers to federal PSD Permits, state-issued permits-to-operate issued on or before January 17, 1997 (these permits cover both construction and operations), construction permits issued on or after January 18, 1997, and minor permits issued after October 1, 2004.

- a. Monitor and record monthly the sulfur content of the diesel fuel burned by obtaining and keeping a current certified letter or fuel receipts from the diesel fuel supplier that the diesel fuel supplied during the month was ULSD.
- b. Report in the operating report under Condition 64 the type of diesel fuel received for each shipment.
- c. Report under Condition 63 if the fuel received was not ULSD.

[Condition 13, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
 [18 AAC 50.040(j) & 50.326(j)(4)]  
 [40 CFR 71.6(a)(1) & (a)(3)]

*ORLs to Avoid Classification as PSD Major*

**13. NO<sub>x</sub> and PM<sub>10</sub> Emission Limits for EU IDs 1 through 10.** The Permittee shall limit NO<sub>x</sub> and PM<sub>10</sub> emissions from EU IDs 1 through 10 combined to no more than 220 tons per 12-month rolling period, for each pollutant. Monitor, record, and report as follows:

- 13.1. Install and maintain a non-resettable hour meter on each of EU IDs 1 through 10.
- 13.2. Monitor and record the hours of operation each month for each of EU IDs 1 through 10 when firing ULSD exclusively and when firing natural gas.
- 13.3. By the end of each calendar month, calculate and record the NO<sub>x</sub> and PM<sub>10</sub> emissions for each of EU IDs 1 through 10 for the previous month using hour data collected in Condition 13.2 and emissions factors below:

EU IDs	NO <sub>x</sub> Emission Factor	PM <sub>10</sub> Emission Factor
EU IDs 1 – 10 (natural gas)	1.56 lb/hr <sup>1</sup>	0.48 lb/hr <sup>2</sup>
EU IDs 1 – 10 (ULSD exclusively)	19.95 lb/hr <sup>3</sup>	10.92 lb/hr <sup>3</sup>

Notes:

<sup>1</sup> Worst-case emissions factor from the 2024 source test.

<sup>2</sup> Worst-case emissions factor from the 2015 source test.

<sup>3</sup> Manufacturer data.

- 13.4. After Department approval of source test results from source tests conducted as required by Condition 49, use the new emission factor retroactive to the date of the source test in lieu of the emission factor in Condition 13.3. If the source test is serving to provide results for representative units, ensure the use for all representative units.
- 13.5. By the end of each calendar month, calculate and record the combined NO<sub>x</sub> and PM<sub>10</sub> emissions for EU IDs 1 through 10 for the previous 12-month period.
- 13.6. Report in the operating report under Condition 64 the combined 12-month rolling NO<sub>x</sub> and PM<sub>10</sub> emissions for EU IDs 1 through 10 for each month of the reporting period.
- 13.7. Notify the Department under Condition 63 if the consecutive 12-month combined NO<sub>x</sub> emissions or PM<sub>10</sub> emissions for EU IDs 1 through 10 exceed 220 tons.

[Condition 6, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
[18 AAC 50.040(j) & 50.326(j)(4)]  
[40 CFR 71.6(a)(1) & (a)(3)]

**14. Operation Hour Limits for EU ID 11.** The Permittee shall limit the operation of EU ID 11 to no more than 500 hours per year.

- 14.1. Install and maintain a non-resettable hour meter on EU ID 11.
- 14.2. Monitor and record the monthly hours of operation for EU ID 11.
- 14.3. By the end of each month, calculate and record the operating hours of EU ID 11 for the previous month.
- 14.4. Report in the operating report under Condition 64 the rolling 12-month hours of operation for EU ID 11.
- 14.5. Notify the Department under Condition 63 if the rolling 12-month hours of operation for EU ID 11 exceed 500 hours.

[Condition 7, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
[18 AAC 50.040(j) & 50.326(j)(4)]  
[40 CFR 71.6(a)(1) & (a)(3)]

**15. Operation Hour Limits for EU IDs 13 and 14.** The Permittee shall limit the combined hours of operation of EU IDs 13 and 14 to no more than 1,000 hours per rolling 12-month period when firing ULSD exclusively.

- 15.1. The Permittee shall fire only natural gas and ULSD in EU IDs 13 and 14.
- 15.2. Install and maintain a non-resettable hour meter on each of EU IDs 13 and 14.
- 15.3. Monitor and record the monthly operating hours for each of EU IDs 13 and 14 when firing ULSD exclusively.
- 15.4. By the end of each month, calculate and record the combined operating hours of EU IDs 13 and 14 when firing ULSD exclusively during the previous month, then calculate the rolling 12-month combined hours for EU IDs 13 and 14 when firing ULSD exclusively.
- 15.5. Report in the operating report under Condition 64 the rolling 12-month combined operating hours for EU IDs 13 and 14 when firing ULSD exclusively.
- 15.6. Notify the Department under Condition 63 if the rolling 12-month combined hours of operation for EU IDs 13 and 14, when firing ULSD exclusively, exceed 1,000 hours.

[Condition 8, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
[18 AAC 50.040(j) & 50.326(j)(4)]  
[40 CFR 71.6(a)(1) & (a)(3)]

**16. Control Equipment.** The Permittee shall operate and maintain a combined selective catalytic reduction (SCR), ROM catalyst, and catalytic oxidation (CatOx) control equipment downstream of each of EU IDs 1 through 10 according to the manufacturer's instructions and as follows:

- 16.1. For the combined control equipment<sup>8</sup>, monitor and record hourly:
  - a. the rate of injection of the reducing aqueous ammonia reagent into the flue gas leaving the emissions unit.
  - b. While operating on natural gas, the 3-hour rolling average ammonia injection rate shall be no less than 1.0 gallons per hour (gal/hr) and no more than 38.5 gal/hr<sup>9</sup>, except during startup and shutdown. Changes to the reagent and/or reagent rate of injection can be made after Department approval provided the request is accompanied by manufacturer or vendor specifications, or is recorded during a Department approved source test for NO<sub>x</sub> emissions.
  - c. the temperature of the flue gas leaving the combined control equipment. The 3-hour rolling average temperature of the flue gas leaving the combined control equipment shall be no less than 536°F and no more than 997°F<sup>10</sup>, except during startup and shutdown.
  - d. the pressure drop across the combined control equipment. The 3-hour rolling average pressure drop shall be no less than 1.5 inches of water and no more than 10 inches of water, except during startup and shutdown.
- 16.2. If Condition 28 is triggered, establish operating parameters to be monitored continuously while operating on ULSD that include the ammonia injection rate, in accordance with Condition 28.6.b.
- 16.3. Keep on site the necessary manufacturer-recommended spare parts, reagents, catalysts, and operation manual for the control equipment.
- 16.4. In case of equipment malfunction, implement manufacturer-recommended corrective actions and record:
  - a. complete description of the corrective action; and
  - b. date(s) of the corrective action.
- 16.5. Keep records of:
  - a. all control equipment system repairs;

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<sup>8</sup> SCR, ROM catalyst, and CatOx with the SCR downstream of the engine, followed by the ROM catalyst, and ending with the CatOx.

<sup>9</sup> The minimum injection rate is from the permit application; maximum injection rate is from the manufacturer's specifications.

<sup>10</sup> The temperature rates are from the manufacturer specifications.

- b. hourly operating parameters established in Condition 16.1 and Condition 16.2 if applicable, dates and times each control equipment is started up or shut down;
  - c. system alarm logs including time and date of occurrence; and
  - d. receipts for all aqueous ammonia purchases (with dates and quantities).
- 16.6. Report under Condition 63 all:
- a. control equipment malfunctions and associated corrective actions;
  - b. operating parameters that are outside the ranges in Condition 16.1 and Condition 16.2 if applicable; and
  - c. periods (starting and ending hour) during which a control equipment was not operating within the ranges established in Condition 16.1 and Condition 16.2 if applicable, while its associated generator was operating.  
[Condition 9, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
[18 AAC 50.040(j) & 50.326(j)(4)]  
[40 CFR 71.6(a)(1) & (a)(3)]

*Requirements to Avoid Classification as a HAP Major Source*

- 17. Formaldehyde (CH<sub>2</sub>O) Emission Limit.** The Permittee shall limit CH<sub>2</sub>O emissions from EU IDs 1 through 10 to no more than 9.6 tons per year (tpy) by operating and maintaining the control equipment as described in Condition 16.  
[Condition 10, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
[18 AAC 50.040(j) & 50.326(j)(4)]  
[40 CFR 71.6(a)(1)]

*Ambient Air Quality Protection Requirements*

- 18. Annual NO<sub>2</sub> Ambient Air Quality Protection.** To protect the annual nitrogen dioxide (NO<sub>2</sub>) Alaskan ambient air quality standards (AAAQS), the Permittee shall:
- 18.1. **Stack Configuration.** Construct and maintain vertical, uncapped exhaust stacks for EU IDs 1 through 10, 12 through 14, and 18, except that each EU may use flapper-style rain covers or other similar designs that do not hinder the vertical momentum of their exhaust plume.
  - 18.2. **Stack Heights.** Construct and maintain EU IDs 1 through 10 exhaust stacks with a release height of at least 30 meters above grade.  
[Condition 11, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
[18 AAC 50.040(j) & 50.326(j)(4)]  
[40 CFR 71.6(a)(1)]

- 19. Annual NO<sub>2</sub> and 24-hr PM<sub>10</sub> Ambient Air Quality Protection.** To protect the annual NO<sub>2</sub> and 24-hr PM<sub>10</sub> AAAQS, the combined operating hours for EU IDs 12 and 18 shall not exceed 1,000 hours per rolling 12-month period.
- 19.1. Install and maintain a non-resettable hour meter on each of EU IDs 12 and 18.

- 19.2. Monitor and record the hours of operation of each emissions unit and the combined hours of operation for EU IDs 12 and 18 for each month.
- 19.3. At the end of each month, calculate and record for the previous month, the combined hours of operation for EU ID 12 and EU ID 18 during the month, then calculate the combined 12-month rolling total hours of operation by adding the hours of operation for the previous 11 months.
- 19.4. Report in the operating report under Condition 64 the combined rolling 12-month hours of operation for EU IDs 12 and 18.
- 19.5. Notify the Department under Condition 63 should the combined consecutive 12-month operating hours for EU IDs 12 and 18 exceed 1,000 hours.

[Condition 12, Minor Permit AQ1086MSS03 Rev. 1, Month XX, 2025]  
[18 AAC 50.040(j) & 50.326(j)(4)]  
[40 CFR 71.6(a)(1) & (a)(3)]

### Insignificant Emissions Units

20. For emissions 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. **Visible Emissions 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. **Particulate Matter 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<sub>2</sub>, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

- 20.4. **General MR&R for Insignificant Emissions Units.** The Permittee shall comply with the following:

- a. Submit the certification of compliance of Condition 65 based on reasonable inquiry;
- b. Comply with the requirements of Condition 46;

- c. Report in the operating report required under Condition 64 if an emissions 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 for the insignificant emissions units to demonstrate compliance with the emissions standards under Conditions 20.1, 20.2, and 20.3.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(b)(4)]  
[40 CFR 71.6(a)(1) & (a)(3)]

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

### **40 CFR Part 60 New Source Performance Standards (NSPS)**

#### **NSPS Subpart A – General Provisions**

**21. NSPS Subpart A Notification.** Unless inapplicable pursuant to 40 CFR 60.7(h), for any affected facility<sup>11</sup> or existing facility<sup>12</sup> regulated under NSPS requirements in 40 CFR 60, the Permittee shall furnish the Administrator<sup>13</sup> written notification or, if acceptable to both the EPA and the Permittee, electronic notification as follows:

[18 AAC 50.035 & 50.040(a)(1)]  
[40 CFR 60.7(a), 60.7(h), & 60.15(d), Subpart A]

21.1. A notification of the date that construction (or reconstruction as defined under 40 CFR 60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in complete form.

[40 CFR 60.7(a)(1), Subpart A]

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

[40 CFR 60.7(a)(3), Subpart A]

21.3. A notification of 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 CFR 60.14(e). This notice shall be 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 CFR 60.7(a)(4), Subpart A]

21.4. A notification of the date upon which demonstration of the continuous monitoring system performance commences in accordance with 40 CFR 60.13(c). Notification shall be postmarked not less than 30 days prior to such date.

[40 CFR 60.7(a)(5), Subpart A]

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<sup>11</sup> “Affected facility” means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 CFR 60.2.

<sup>12</sup> “Existing facility” means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in this part, and the construction or modification of which was commenced before the date of proposal of that standard; or any apparatus which could be altered in such a way as to be of that type, as defined in 40 CFR 60.2.

<sup>13</sup> The Department defines “Administrator” in 18 AAC 50.990(2).

- 21.5. A notification of the anticipated date for conducting the opacity observations required by 40 CFR 60.11(e)(1). The notifications shall also include, if appropriate, a request for the EPA to provide a visible emissions reader during a performance test. The notification shall be postmarked not less than 30 days prior to such date.

[40 CFR 60.7(a)(6), Subpart A]

- 21.6. A notification of any proposed replacement of components at an existing facility, for which the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility, postmarked 60 days (or as soon as practicable) before commencement of replacement, and including the following information:

[40 CFR 60.15(d), Subpart A]

- a. name and address of the 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 IDs 1 through 10, 13, and 14, any malfunction of the air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for EU IDs 1 through 10, 13, and 14 is inoperative.

[18 AAC 50.040(a)(1)]

[40 CFR 60.7(b), Subpart A]

- 23. NSPS Subpart A Performance (Source) Tests.** The Permittee shall conduct source tests according to Section 6 and as required in this condition on any affected facility.

- 23.1. Except as specified in paragraphs (a)(1), (a)(2), (a)(3), and (a)(4) of 40 CFR 60.8, within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, or at such other times specified by 40 CFR Part 60, and at such other times as may be required by EPA, the owner or operator of such facility shall conduct performance test(s) and furnish EPA and the Department a written report of the results of such performance test(s).

[18 AAC 50.040(a)(1)]

[40 CFR 60.8(a), Subpart A]

- 24. NSPS Subpart A Good Air Pollution Control Practice.** At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU IDs 13 and 14 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 IDs 13 and 14.

[18 AAC 50.040(a)(1)]  
[40 CFR 60.11(d), Subpart A]

- 25. 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 any standard in Condition 27, 28, or 29, nothing in 40 CFR Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU IDs 1 through 14 and 18 would have been in compliance with applicable requirements of 40 CFR Part 60 if the appropriate performance or compliance test or procedure had been performed.

[18 AAC 50.040(a)(1)]  
[40 CFR 60.11(g), Subpart A]

- 26. NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Condition 27, 28, or 29. 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 CFR 60.12, Subpart A]

## **NSPS Subpart Dc – Steam Generating Units**

### *NSPS Subpart Dc Applicability*

- 27.** For EU IDs 13 and 14, the Permittee shall comply with any applicable requirement in 40 CFR 60 Subpart Dc for small steam generating units for which construction is commenced after June 9, 1989 and that has a maximum design capacity of 100 MMBtu/hr or less but greater than or equal to 10 MMBtu/hr.

[18 AAC 50.040(a)(2)(D), (j)(4) & 50.326(j)]  
[40 CFR 71.6(a)(1)]  
[40 CFR 60.40c(a), Subpart Dc]

### *NSPS Subpart Dc Sulfur Dioxide Standard*

- 27.1. At all times, including periods of startup, shutdown, and malfunction, when EU IDs 13 and 14 combust fuel oil, the Permittee shall **either**:

- a. emit no more than 0.5 lb SO<sub>2</sub>/MMBtu (215 ng/J) heat input from fuel oil combusted, **or**
- b. combust fuel oil that contains no more than 0.5 percent sulfur by weight.

[18 AAC 50.040(a)(2)(D)]  
[40 CFR 60.42c(d) & (i), Subpart Dc]

*NSPS Subpart Dc MR&R Requirements*

- 27.2. Compliance with the emission limits or fuel oil sulfur limits under Condition 27.1 shall be determined based on a certification from the fuel supplier and demonstrated by complying with Condition 12.2.

[40 CFR 60.42c(h)(1), 60.44c(h), & 60.46c(e), Subpart Dc]

- 27.3. The Permittee shall maintain records consistent with Condition 59 and shall submit reports to EPA as follows:

- a. Include the calendar dates covered in the reporting period and a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

[40 CFR 60.48c(d), (e)(l) & (11), Subpart Dc]

- b. Fuel supplier certification shall include the following information:

- (i) The name of the oil supplier;
- (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and
- (iii) The sulfur content or maximum sulfur content of the oil.

[40 CFR 60.48c(f)(l), Subpart Dc]

- c. The reporting period for the reports required under Condition 27.3 is each six-month period. All reports shall be submitted to the EPA and shall be postmarked by the 30<sup>th</sup> day following the end of the reporting period.

[40 CFR 60.48c(j), Subpart Dc]

- 27.4. Except as provided under Condition 27.5, for each of EU IDs 13 and 14, the Permittee shall record the amount of each fuel combusted during each operating day and maintain the records consistent with Condition 59.

- 27.5. As an alternative to meeting the requirements of Condition 27.4, the Permittee may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

[18 AAC 50.040(a)(2)(D)]  
[40 CFR 60.48c(g)(1) & (2), Subpart Dc]

## **NSPS Subpart IIII<sup>14</sup>– Compression Ignition Internal Combustion Engines**

### *NSPS Subpart IIII Applicability and Compliance Requirements*

- 28.** For EU IDs 11, 12, and 18, listed in Table A, the Permittee shall comply with the applicable requirements in 40 CFR 60 Subpart IIII for stationary compression ignition (CI) internal combustion engine (ICE) whose construction<sup>15</sup> commences after July 11, 2005 where the stationary CI ICE is manufactured after April 1, 2006 (emergency units, EU IDs 12 and 18) and manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006 (EU ID 11). For EU IDs 1 through 10, the Permittee shall comply with the applicable requirements in 40 CFR 60 Subpart IIII for non-emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder if it operates as follows. If any of EU IDs 1 through 10 use an annual average ratio of greater than or equal to 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis, it will be subject to the requirements of Subpart IIII in Condition 28 for CI ICE for the subsequent year; during this period, compliance with Condition 29 as a stationary spark ignition (SI) ICE will not be required for that unit.

[18 AAC 50.040(a)(2)(OO), (j)(4) & 50.326(j)]

[40 CFR 71.6(a)(1)]

[40 CFR 60.4200(a)(2), Subpart IIII]

- 28.1. Comply with the applicable requirements of 40 CFR 60.4208 for importing or installing stationary CI ICE.

[40 CFR 60.4208, Subpart IIII]

- 28.2. Except as permitted under Condition 28.3:

- a. Operate and maintain the stationary CI ICE and control device according to the manufacturer's written instructions over the entire life of the engine;
- b. Change only those emission-related settings that are permitted by the manufacturer; and
- c. Meet the requirements of 40 CFR part 1068, as they apply to you.

[40 CFR 60.4206 & 60.4211(a), Subpart IIII]

- 28.3. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

[40 CFR 60.4211(g), Subpart IIII]

- a. For EU IDs 11, 12, and 18, 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

<sup>14</sup> The provisions of NSPS Subpart IIII listed in Condition 28 are current as amended through December 4, 2020. Should EPA promulgate revisions to this subpart, the Permittee shall be subject to the revised final provisions as promulgated and not the superseded provisions summarized in this condition.

<sup>15</sup> For the purposes of NSPS Subpart IIII, the date that construction commences is the date the engine is ordered by the owner or operator as defined in 40 CFR 60.4200(a).

practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrated 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.

[40 CFR 60.4211(g)(2) & (g)(3), Subpart III]

- b. For EU IDs 12 and 18, 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 CFR 60.4211(g)(3), Subpart III]

- 28.4. Operate EU IDs 11, 12, and 18 according to the requirements in 40 CFR 60.4211(f)(1) through 40 CFR 60.4211(f)(3). In order for the engine to be considered an emergency stationary ICE under NSPS Subpart III, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 60.4211(f)(1) through 40 CFR 60.4211(f)(3), is prohibited. If you do not operate the engine according to the requirements in 40 CFR 60.4211(f)(1) through 40 CFR 60.4211(f)(3), the engine will not be considered an emergency engine under 40 CFR 60 Subpart III and must meet all requirements for non-emergency engines.

[40 CFR 60.4211(f), Subpart III]

- 28.5. Comply with the applicable provisions of 40 CFR 60 Subpart A as specified in Table 8 to Subpart III.

[40 CFR 60.4218 & Table 8, Subpart III]

- 28.6. For EU IDs 1 through 10, when required by Condition 28, demonstrate compliance according to the following requirements:

- a. Conduct an initial performance test to demonstrate initial compliance with the emission standards in Condition 28.12 as specified in 40 CFR 60.4213.
- b. Establish operating parameters to be monitored continuously to ensure the stationary ICE continues to meet the emission standards. The Permittee must petition the Department for approval of operating parameters to be monitored continuously. The petition must include the following information:
  - (i) identification of the specific parameters proposed to be monitored continuously;
  - (ii) a discussion of the relationship between these parameters and NO<sub>x</sub> and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NO<sub>x</sub> and PM emissions;

- (iii) a discussion of how to establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;
  - (iv) a discussion identifying the methods and the instruments that will be used to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
  - (v) a discussion identifying the frequency and methods for recalibrating the instruments that will be used for monitoring these parameters.
- c. Conduct annual performance tests to demonstrate continuous compliance with the emission standards in Condition 28.12 as specified in 40 CFR 60.4213.

[40 CFR 60.4211(d), Subpart III]

#### *NSPS Subpart III Fuel Requirements*

28.7. For EU IDs 11, 12, and 18, the Permittee must use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel with the following specifications:

- a. Maximum sulfur content of 15 ppm.
- b. Diesel fuel must meet one of the following standards:
  - (i) Minimum cetane index of 40.
  - (ii) Maximum aromatic content of 35 volume percent.

[40 CFR 60.4207(b), Subpart III]  
[40 CFR 1090.305, Subpart D]

28.8. For EU IDs 1 through 10, when required by Condition 28, the Permittee must use diesel fuel that meets a maximum per-gallon sulfur content of 1,000 ppm.

[40 CFR 60.4207(d), Subpart III]

#### *NSPS Subpart III Emission Standards*

28.9. The Permittee shall comply with the emission standards in Conditions 28.10 and 28.11 by purchasing an engine certified to the emission standards specified in 40 CFR 60.4205(b) (for EU IDs 12 and 18) and 60.4205(c) (for EU ID 11), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted under Condition 28.3.<sup>16</sup>

[40 CFR 60.4211(c), Subpart III]

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<sup>16</sup> EU IDs 11, 12, and 18 were identified in the application as certified engines.

28.10. For EU IDs 12 and 18, the Permittee must comply with the Tier 2 emission standards for new nonroad CI engines for the same rated power as described in 40 CFR Part 1039, Appendix I, for all pollutants and the smoke standards, for the same model year and maximum engine power:

- a. 6.4 g/kW-hr for NO<sub>x</sub> + NMHC;
- b. 3.5 g/kW-hr for CO;
- c. 0.2 g/kW-hr for PM; and
- d. Smoke from EU IDs 12 and 18 may not exceed the following standards:
  - (i) 20 percent during the acceleration mode.
  - (ii) 15 percent during the lugging mode.
  - (iii) 50 percent during the peaks in either the acceleration or lugging modes.

[40 CFR 60.4205(b) & 60.4202(a)(2), Subpart III]  
[40 CFR 1039, Table 2 to Appendix I & 1039.105(b), Subpart I]

28.11. For EU ID 11, the Permittee shall comply with the applicable emission standards in Table 4 to NSPS Subpart III, for all pollutants.

- a. 4.0 g/kW-hr for NMHC + NO<sub>x</sub>;
- b. 3.5 g/kW-hr for CO; and
- c. 0.20 g/kW-hr for PM

[40 CFR 60.4205(c) & Table 4, Subpart III]

28.12. For EU IDs 1 through 10, when required by Condition 28, the Permittee shall:

- a. Limit the emissions of NO<sub>x</sub> in the stationary CI ICE exhaust to the following:
  - (i) 14.4 g/kW-hr for NO<sub>x</sub> when maximum engine speed is less than 130 rpm;
  - (ii)  $44 * n^{-0.23}$  g/kW-hr for NO<sub>x</sub> when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and
- b. Reduce PM emissions by 60 percent or more, or limit the emissions of PM in the stationary CI ICE exhaust to 0.15 g/kW-hr.

[40 CFR 60.4204(c)(2) & (4), Subpart III]

#### *NSPS Subpart III Monitoring and Recordkeeping Requirements*

28.13. For EU IDs 11, 12, and 18, the Permittee shall meet the monitoring and recordkeeping requirements as follows:

[18 AAC 50.040(a)(2)(OO), (j)(4) & 50.326(j)]  
[40 CFR 71.6(a)(1) & (a)(3)]

- a. If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine, if one is not already installed.

[40 CFR 60.4209(a), Subpart III]

- b. If you are an owner or operator of an emergency stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in Conditions 28.9 and 28.11, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

- (i) 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.

[40 CFR 60.4209(b) & 60.4214(c), Subpart III]

- c. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

[40 CFR 60.4214(b), Subpart III]

28.14. For EU IDs 1 through 10, when required by Condition 28, must meet the following requirements:

- a. Submit an initial notification as required in 21.1. Beginning on February 26, 2025, submit the notification electronically according to 40 CFR 60.4214(g). The notification must include the following information:
  - (i) Name and address of the owner or operator;
  - (ii) The address of the affected source;
  - (iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
  - (iv) Emission control equipment; and
  - (v) Fuel used.
- b. Keep records of the following information:
  - (i) All notifications submitted to comply with Subpart III and all documentation supporting any notification.
  - (ii) Maintenance conducted on the engine.

- (iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.
- (iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

[40 CFR 60.4214(a), Subpart III]

### *NSPS Subpart III Reporting Requirements*

#### 28.15. Report as follows:

- a. Beginning on February 26, 2025, within 60 days after the date of completing each performance test required by Conditions 28.3 and 28.6, the Permittee must submit the results of the performance test following the procedures specified below:
  - (i) ***Data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test.*** Submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), according to Condition 28.15.b. The data must be submitted in a file format generated using the EPA's ERT. Alternatively, you may submit an electronic file consistent with the extensible markup language (XML) schema listed on the EPA's ERT website.
  - (ii) ***Data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT website at the time of the test.*** The results of the performance test must be included as an attachment in the ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT website. Submit the ERT generated package or alternative file to the EPA via CEDRI according Condition 28.15.b.
- b. If the Permittee is required to submit notifications or reports following the procedures specified in 40 CFR 60.4214(g), submit notifications or reports to the EPA via the CEDRI, which can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>) except as set out by 40 CFR 60.4214(g)(1) and (g)(2).
- c. If subject to Condition 28.13.c, include with the operating report under Condition 64 records of the operational hours and the reason the engine was in operation as required in Condition 28.13.c for the period covered by the report.
- d. Report in accordance with Condition 63 if any of the requirements in Conditions 28.1 through 28.14 were not met.

[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 CFR 71.6(a)(3)(iii) & (c)(6)]

[40 CFR 60.4214(f) & (g), Subpart IIII]

## NSPS Subpart JJJJ – Spark Ignition Internal Combustion Engines

### *NSPS Subpart JJJJ Applicability and Compliance Requirements*

29. For EU IDs 1 through 10, the Permittee shall comply with all applicable requirements of NSPS Subpart JJJJ for stationary spark ignition (SI) internal combustion engine whose construction, modification, or reconstruction commences after June 12, 2006. If any of EU IDs 1 through 10 use an annual average ratio of greater than or equal to 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis, it will be subject to the requirements of NSPS Subpart IIII in Condition 28 for CI internal combustion engines for the subsequent year; during this period, compliance with this condition will not be required for that unit.

[18 AAC 50.040(a)(2)(PP), (j)(4) & 50.326(j)]  
[40 CFR 71.6(a)(1)]  
[40 CFR 60.4230, Subpart JJJJ]

- 29.1. Operate and maintain stationary SI ICE that achieve the emission standards as required in Condition 29.4 over the entire life of the engine.

[40 CFR 60.4234, Subpart JJJJ]

- 29.2. Comply with the applicable provisions of NSPS Subpart A as specified in Table 3 to Subpart JJJJ.

[40 CFR 60.4246 & Table 3, Subpart JJJJ]

- 29.3. For EU ID 1 through 10, the Permittee shall comply with the following:

- 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 within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance with the emission standards in Condition 29.4.

[40 CFR 60.4243(b)(2)(ii), Subpart JJJJ]

- b. **Performance Test Waiver.** As allowed under the performance test waiver approved by EPA Region 10 on March 12, 2018, the Permittee may elect to test only two of EU IDs 1 through 10 in lieu of the testing requirement in Condition 29.3.a, to demonstrate compliance with the emission standards in Condition 29.4. This waiver is subject to Conditions 29.3.b(i) through 29.3.b(v) and automatically terminates if these conditions are not met:

- (i) During each scheduled performance test, at least two of the Wärtsilä 18V50DF engines covered by the waiver shall be tested. After any five consecutive performance tests (or one half the sum of the remaining engines, rounding up to a whole number if necessary, if any engines have been retired from service or have become ineligible for the waiver), all of the Wärtsilä 18V50DF engines covered by the waiver shall have been tested.
- (ii) The Permittee shall perform each subsequent test of its Wärtsilä 18V50DF engines within three years from the date of the previous test, or before such a time that any Wärtsilä 18V50DF engine covered by the waiver has operated 8,760 hours from the date of the previous test, whichever comes first.
- (iii) The units must remain subject to federally-enforceable permit requirements that provide for continuous operation of the SCR and CatOx systems, continuous monitoring of SCR and CatOx operating parameters, and recordkeeping and reporting requirements that are consistent with Operating Permit AQ1086TVP01, issued, January 27, 2017.
- (iv) Emissions of any pollutant regulated by NSPS JJJJ from any tested engine must remain at or below 50 percent of the level of the standard
- (v) The units must remain at the Matanuska Electric Assoc. Eklutna Generation Station located southwest of Palmer, Alaska.

[USEPA Region 10 Test Waiver, 3/12/2018]  
[40 CFR 60.8(b)(4), Subpart A]

#### *NSPS Subpart JJJJ Emission Standards*

29.4. For EU IDs 1 through 10, the Permittee must meet the following emission standards:

[40 CFR 60.4233(e), Subpart JJJJ]

- a. 1.0 g/hp-hr (82 ppmvd at 15 percent O<sub>2</sub>) for NO<sub>x</sub>
- b. 2.0 g/hp-hr (270 ppmvd at 15 percent O<sub>2</sub>) for CO
- c. 0.7 g/hp-hr (60 ppmvd at 15 percent O<sub>2</sub>) for VOC<sup>17</sup>

[40 CFR 60.4233(e) & Table 1, Subpart JJJJ]

#### *NSPS Subpart JJJJ Testing Requirements*

29.5. For EU ID 1 through 10, the Permittee shall comply with the following:

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<sup>17</sup> For purposes of NSPS Subpart JJJJ, when calculating emissions of volatile organic compounds from EU IDs 1-10, emissions of formaldehyde should not be included. [Table 1 Footnote d, Subpart JJJJ]

- a. Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in Conditions 29.5.a(i) through 29.5.a(vii) below.
- [40 CFR 60.4244, Subpart JJJJ]
- (i) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 to NSPS Subpart JJJJ.
  - (ii) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.
  - (iii) You must conduct three separate test runs for each performance test required in this section, as specified in 40 CFR 60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.
  - (iv) To determine compliance with the NO<sub>x</sub> mass per unit output emission limitation, convert the concentration of NO<sub>x</sub> in the engine exhaust using Equation 1 of 40 CFR 60.4244.
  - (v) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of 40 CFR 60.4244.
  - (vi) For purposes of NSPS Subpart JJJJ, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of 40 CFR 60.4244.
  - (vii) If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of 40 CFR 60.4244. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of 40 CFR 60.4244.

[40 CFR 60.4244(a) through (g), Subpart JJJJ]

*NSPS Subpart JJJJ Notification, Reporting, and Recordkeeping Requirements*

29.6. For EU ID 1 through 10, the Permittee must meet the following notification, reporting and recordkeeping requirements.

[40 CFR 60.4245, Subpart JJJJ]

a. Owners and operators of all stationary SI ICE must keep records of the information in Conditions 29.6.a(i) through 29.6.a(iii) of this permit.

[40 CFR 60.4245(a), Subpart JJJJ]

(i) All notifications submitted to comply with NSPS Subpart JJJJ and all documentation supporting any notification.

(ii) Maintenance conducted on the engine.

(iii) If the stationary SI ICE is not a certified engine, documentation that the engine meets the emission standards.

[40 CFR 60.4245(a)(1), (2) & (4), Subpart JJJJ]

b. Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in Condition 29.5.a within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference - see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedures in Annexes 1-7.

[40 CFR 60.4245(d), Subpart JJJJ]

29.7. Report in accordance with Condition 63 if any of the requirements in Conditions 29.1 through 29.6 were not met.

**40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAP)**

**NESHAP Subpart ZZZZ – Stationary RICE**

**30. NESHAP Subpart ZZZZ Applicability.** For EU IDs 1 through 12 and 18, the Permittee shall comply with the applicable requirements of NESHAP Subpart ZZZZ for stationary reciprocating internal combustion engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions.

[18 AAC 50.040(c)(23), (j)(4) & 50.326(j)]

[40 CFR 71.6(a)(1)]

[40 CFR 63.6585(c) & 63.6590(a)(2)(iii), Subpart ZZZZ]

- 30.1. The Permittee shall meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR Part 60 Subpart IIII (under Condition 28), for compression ignition engines (EU IDs 11, 12, and 18, and EU IDs 1 through 10 when required by Condition 28) or 40 CFR Part 60 Subpart JJJJ (under Condition 29), for spark ignition engines (1 through 10 when applicable). No further requirements apply for EU IDs 1 through 12 and 18 under 40 CFR 63.

[40 CFR 63.6590(c)(1), Subpart ZZZZ]

## **40 CFR Part 61 NESHAP**

### **NESHAP Subpart A – General Provisions & Subpart M – Asbestos**

31. The Permittee shall comply with the requirements set forth in 40 CFR 61.145, 61.150, and 61.152 of Subpart M, and the applicable sections set forth in 40 CFR 61, Subpart A and Appendix A.

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

### **40 CFR 68 Chemical Accident Prevention Provisions**

32. If storing aqueous ammonia with a concentration of 20 percent or greater and more than 20,000 pounds, the Permittee shall comply with the requirements set forth in 40 CFR 68 as follows:

- 32.1. Submit a compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
- 32.2. As part of the Annual Compliance Certification required by Condition 65, the Permittee shall certify compliance with all requirements of 40 CFR 68, including the registration and submission of the risk management plan (RMP).

[18 AAC 50.040(j) & 50.326(j)]  
[40 CFR 71.6(a)(3) & (c)(6)]  
[40 CFR 68.215(a)(2), Subpart H, & Table 1 to 40 CFR 68]

### **40 CFR Part 82 Protection of Stratospheric Ozone**

33. **Subpart F – Recycling and Emissions Reduction.** The Permittee shall comply with the standards for recycling and emission reduction of refrigerants set forth in 40 CFR 82, Subpart F.

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

34. **Subpart G – Significant New Alternatives.** The Permittee shall comply with the applicable prohibitions set out in 40 CFR 82.174 (b) through (d) (Protection of Stratospheric Ozone Subpart G – Significant New Alternatives Policy Program).

[18 AAC 50.040(d) & 50.326(j)]  
[40 CFR 82.174(b) through (d), Subpart G]

35. **Subpart H – Halon Emission Reduction.** The Permittee shall comply with the applicable prohibitions set out in 40 CFR 82.270 (b) through (f) (Protection of Stratospheric Ozone Subpart H – Halon Emission Reduction).

[18 AAC 50.040(d) & 50.326(j)]  
[40 CFR 82.270(b) through (f), Subpart H]

### **NESHAP Applicability Determination Requirements**

- 36.** The Permittee shall determine rule applicability and designation of affected sources under National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories (40 CFR 63) in accordance with the procedures described in 40 CFR 63.1(b).
- 36.1. If an owner or operator of a stationary source who is in the relevant source category determine that the source is not subject to a relevant standard or other requirement established under 40 CFR 63, the owner or operator must keep a record as specified in 40 CFR 63.1(b).
- 36.2. If a source becomes affected by an applicable subpart of 40 CFR 63, the owner or operator shall comply with such standard by the compliance date established by the Administrator in the applicable subpart, in accordance with 40 CFR 63.6(c).
- 36.3. 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 40 CFR 63.9(b).

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]  
[40 CFR 71.6(a)(3)(ii)]  
[40 CFR 63.1(b), 63.5(b)(4), 63.6(c)(1), & 63.10(b)(3), Subpart A]

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

### **Standard Terms and Conditions**

- 37.** 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)]

- 38.** 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)]

- 39.** 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)]

- 40. 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 through 403.

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

- 41. Assessable Emissions.** For each period from July 1 through the following June 30, 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 Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit. The quantity for which fees will be assessed is the lesser of the stationary source's

41.1. potential to emit of **872.50 tpy**; or

41.2. projected annual rate of emissions, in tpy, based upon actual annual emissions for the most recent calendar year, or another 12-month period approved in writing by the Department, when demonstrated by credible evidence or actual emissions, based upon the most representative information available from one or more of the following methods:

- 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, including appropriate vendor-provided emissions factors when sufficient documentation is provided.

[18 AAC 50.040(j)(4), 50.035, 50.326(j)(1) & (3), 50.346(b)(1), 50.410, & 50.420]

- 42. Assessable Emission Estimates.** The Permittee shall comply as follows:

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- 42.1. No later than March 31 of each year, the Permittee may submit an estimate of the stationary source’s assessable emissions as determined in Condition 41.2. Submit actual emissions estimates in accordance with the submission instructions on the Department’s Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-i-submission-instructions/>.
- 42.2. The Permittee shall include with the assessable emissions report all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.
- 42.3. 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 out in Condition 41.1.  
[18 AAC 50.040(j)(4), 50.326(j)(1) & (3), 50.346(b)(1), 50.410, & 50.420]
- 43. Good Air Pollution Control Practice.** The Permittee shall do the following for EU ID 17:
- 43.1. Perform regular maintenance considering the manufacturer’s or the operator’s maintenance procedures;
- 43.2. Keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and
- 43.3. Keep a copy of either the manufacturer’s or the operator’s maintenance procedures.  
[18 AAC 50.326(j)(3) & 50.346(b)(5)]
- 44. 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)]
- 45. 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)]
- 46. 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 50.040(j)(4), 50.110, 50.326(j)(3), & 50.346(a)]  
[40 CFR 71.6(a)(3)]
- 46.1. **Monitoring.** The Permittee shall monitor as follows:
- a. 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 46.

- b. The Permittee shall initiate and complete corrective action necessary to eliminate any violation identified by a complaint or investigation as soon as practicable if
  - (i) 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 46; or
  - (ii) the Department notifies the Permittee that it has found a violation of Condition 46.

**46.2. Recordkeeping.** 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 46; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

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

- a. With each stationary source operating report under Condition 64, the Permittee shall include a brief summary report which must include the following for the period covered by the report:
  - (i) the number of complaints received;
  - (ii) the number of times the Permittee or the Department found corrective action necessary;
  - (iii) the number of times action was taken on a complaint within 24 hours; and
  - (iv) the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.
- b. 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.
- c. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 63.

**47. Technology-Based Emission Standard.** If an unavoidable emergency, malfunction (as defined in 18 AAC 50.235(d)), or nonroutine repair (as defined in 18 AAC 50.990(64)), causes emissions in excess of a technology-based emission standard<sup>18</sup> listed in Condition 27, 28, 29, or 33 (refrigerants), the Permittee shall

- 47.1. take all reasonable steps to minimize levels of emissions that exceed the standard; and
- 47.2. report in accordance with Condition 63.1.b; the report must include information on the steps taken to mitigate emissions and corrective measures taken or to be taken.

[18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]  
[40 CFR 71.6(c)(6)]

### Open Burning Requirements

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

- 48.1. 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; and
- 48.2. Include this condition in the annual certification required under Condition 65.

[18 AAC 50.065, 50.040(j), & 50.326(j)]  
[40 CFR 71.6(a)(3)]

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<sup>18</sup> As defined in 18 AAC 50.990(106), the term “*technology-based emission standard*” means a best available control technology (BACT) standard; a lowest achievable emission rate (LAER) standard; a maximum achievable control technology (MACT) standard established under 40 CFR 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

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

- 49. 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)]

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

[18 AAC 50.220(b)]

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

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

- 51.1. 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 CFR 60.

[18 AAC 50.040(a) & 50.220(c)(1)(A)]  
[40 CFR 60]

- 51.2. 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 CFR 63.

[18 AAC 50.040(c) & 50.220(c)(1)(C)]  
[40 CFR 63]

- 51.3. 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 10 to record data.

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

- 51.4. 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 CFR 60, Appendix A.

[18 AAC 50.040(a)(3) & 50.220(c)(1)(E)]  
[40 CFR 60, Appendix A]

- 51.5. Source testing for emissions of PM<sub>10</sub> and PM<sub>2.5</sub> must be conducted in accordance with the procedures specified in 40 CFR 51, Appendix M, Methods 201 or 201A and 202.

[18 AAC 50.035(b)(2) & 50.220(c)(1)(F)]

[40 CFR 51, Appendix M]

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

[18 AAC 50.040(c)(24) & 50.220(c)(2)]  
[40 CFR 63, Appendix A, Method 301]

**52. 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 emissions 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)]

**53. Test Exemption.** The Permittee is not required to comply with Conditions 55, 56, and 57 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.3) or Smoke/No Smoke Plan (Condition 2.4).

[18 AAC 50.345(a)]

**54. 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.

**55. Test Plans.** Except as provided in Condition 53, 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 emissions 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 49 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.

**56. Test Notification.** Except as provided in Condition 53, 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.

**57. Test Reports.** Except as provided in Condition 53, 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 60. 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) & (l) through (o)]

- 58. 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.

[18 AAC 50.220(f)]

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

### **Recordkeeping Requirements**

- 59.** The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:
- 59.1. Copies of all reports and certifications submitted pursuant to this section of the permit; and
  - 59.2. 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.

[18 AAC 50.040(a)(1), (j)(4), & 50.326(j)]  
[40 CFR 60.7(f), Subpart A, 40 CFR 71.6(a)(3)(ii)(A) & (B)]

### **Reporting Requirements**

- 60. 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.

- 60.1. The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if the person providing the electronic signature
- a. uses a security procedure, as defined in AS 09.80.190, that the Department has approved; and
  - b. accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.205, 50.326(j)(3), 50.345(a) & (j), & 50.346(b)(10)]

**61. Submittals.** Unless otherwise directed by the Department or this permit, the Permittee shall submit to the Department one certified copy of reports, compliance certifications, and/or other submittals required by this permit. The Permittee shall submit the documents electronically.

61.1. Submit the certified copy of reports, compliance certifications, and/or other submittals in accordance with the submission instructions on the Department’s Standard Permit Conditions web page at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-xvii-submission-instructions/>.

[18 AAC 50.326(j)(3) & 50.346(b)(10)]

**62. 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 CFR 71.5(a)(2) & 71.6(a)(3)]

**63. Excess Emissions and Permit Deviation Reports.** The Permittee shall report excess emissions and permit deviations as follows

63.1. **Excess Emissions Reporting.** Except as provided in Condition 46, the Permittee shall report all emissions or operations that exceed emissions standards or limits of this permit, as follows:

- a. In accordance with 18 AAC 50.240(c), as soon as possible, report
  - (i) excess 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. If a continuous or recurring excess emissions is not corrected within 48 hours of discovery, report within 72 hours of discovery unless the Department provides written permission to report under Condition 63.1.d.
- d. Report all other excess emissions not described in Conditions 63.1.a, 63.1.b, and 63.1.c within 30 days after the end of the month during which the excess emissions occurred or as part of the next routine operating report in Condition 64 for excess emissions that occurred during the period covered by the report, whichever is sooner.

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

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

**63.2. Permit Deviations Reporting.** For permit deviations that are not “excess emissions,” as defined under 18 AAC 50.990:

- a. Report according to the required deadline for failure to monitor, as specified in other applicable conditions of this permit (Conditions 4.3.b and 8.3.b).
- b. Report all other permit deviations within 30 days after the end of the month during which the deviation occurred or as part of the next routine operating report in Condition 64 for permit deviations that occurred during the period covered by the report, whichever is sooner

[18 AAC 50.326(j)(3) & 50.346(b)(2)]

**63.3. Reporting Instructions.** When reporting either excess emissions or permit deviations, the Permittee shall report using the Department’s online form for all such submittals. The form can be found at the Division of Air Quality’s Air Online Services (AOS) system webpage <http://dec.alaska.gov/applications/air/airtoolsweb> using the Permittee Portal option. Alternatively, upon written Department approval, the Permittee may submit the form contained in Section 11 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department’s Standard Permit Conditions webpage found at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

[18 AAC 50.326(j)(3), 50.346(b)(3), & 50.270(a), (b), & (c)]

**64. Operating Reports.** During the life of this permit<sup>19</sup>, the Permittee shall submit to the Department an operating report in accordance with Conditions 60 and 61 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.

- 64.1. The operating report must include all information required to be in operating reports by other conditions of this permit, for the period covered by the report.
- 64.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 64.1, the Permittee shall identify
  - a. the date of the excess emissions or permit deviation;
  - b. the equipment involved;
  - c. the permit condition affected;

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<sup>19</sup> “Life of this permit” is defined as the permit effective dates, including any periods of reporting obligations that extend beyond the permit effective dates. For example, if a permit expires prior to the end of a calendar year, there is still a reporting obligation to provide operating reports for the periods when the permit was in effect.

- d. a description of the excess emissions or permit deviation; and
  - e. any corrective action or preventive measures taken and the date(s) of such actions.
- 64.3. When excess emissions or permit deviation reports have already been submitted under Condition 63 during the period covered by the operating report, the Permittee shall either
- a. include a copy of those excess emissions or permit deviation reports with the operating report; or
  - b. cite the date(s) of those reports.
- 64.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.3.e and 2.4.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.
- 64.5. **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 50.326(j)(3) & 50.346(b)(6)]  
[40 CFR 71.6(a)(3)(iii)(A)]

- 65. Annual Compliance Certification.** Each year by March 31, the Permittee shall compile and submit to the Department an annual compliance certification report according to Condition 61.
- 65.1. Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, as follows:
- a. identify each term or condition set forth in Section 3 through Section 9, that is the basis of the certification;
  - b. briefly describe each method used to determine the compliance status;
  - c. state whether compliance is intermittent or continuous; and
  - d. identify each deviation and take it into account in the compliance certification.

65.2. **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.

65.3. In addition, submit a copy of the report directly to the Clean Air Act Compliance Manager, US EPA Region 10, ATTN: Air Toxics and Enforcement Section, Mail Stop: 20-C04, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188, or electronically to the EPA’s CDX and CEDRI online reporting system accessible via [cdx.epa.gov](http://cdx.epa.gov).

[18 AAC 50.205, 50.345(a) & (j), & 50.326(j)]  
[40 CFR 71.6(c)(5)]

**66. Regional Haze Visibility Protection Area.** The Permittee shall comply as follows:

66.1. Maintain onsite for 10 years, records of any maintenance to any significant emissions unit that is not an insignificant emissions unit under 18 AAC 50.326(d) – (i), that has or may have an effect on any emission that affects visibility of Class I areas, including critical maintenance that has occurred or is planned to occur, including all schedules, practices, and maintenance records for each significant emissions unit and control device according to the manufacturer’s emission-related written instructions.

[18 AAC 50.025(a)(4), 50.265(1), & 50.326(j)]  
[40 CFR 71.6(a)(3)(iii)(A)]

**67. Emission Inventory Reporting.** The Permittee shall submit to the Department reports of actual emissions for the previous calendar year, by emissions unit, of CO, NH<sub>3</sub>, NO<sub>x</sub>, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, VOC and lead (Pb) and lead compounds, as follows:

67.1. **Annual Inventory.** Each year by April 30, if the stationary source’s potential to emit for the previous calendar year equals or exceeds:

- a. 250 tons per year (tpy) of NH<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> or VOC; or
- b. 2,500 tpy of CO, NO<sub>x</sub> or SO<sub>2</sub>.

67.2. **Triennial Inventory.** Every third year by April 30, if the stationary source’s PTE for the previous calendar year does not meet any of the emission thresholds in Condition 67.1.

67.3. For reporting under Condition 67.2, the Permittee shall report the annual emissions and the required data elements under Condition 67.4 every third year for the previous calendar year as scheduled by the EPA.<sup>20</sup>

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<sup>20</sup> The calendar years for which reports are required are based on the triennial reporting schedule in 40 CFR 51.30(b)(1), which requires states to report emissions data to the EPA for inventory years 2011, 2014, 2017, 2020, and every 3rd year thereafter. Therefore, the Department requires Permittees to report emissions data for the same inventory years by April 30 of the following year (e.g., triennial emission inventory report for 2020 is due April 30, 2021, triennial emission inventory report for 2023 is due April 30, 2024, etc.).

- 67.4. For each emissions unit and the stationary source, include in the report the required data elements<sup>21</sup> contained within the form included in the Emission Inventory Instructions available at the Department’s AOS system on the Point Source Emission Inventory webpage at <http://dec.alaska.gov/Applications/Air/airtoolsweb/PointSourceEmissionInventory>.
- 67.5. Submit the report in accordance with the submission instructions on the Department’s Standard Permit Conditions webpage at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-xv-and-xvi-submission-instructions/>.

[18 AAC 50.040(j)(4), 50.200, 50.326(j)(3), & 50.346(b)(8)]  
[40 CFR 51.15, 51.30(a)(1) & (b)(1), & Appendix A to 40 CFR 51 Subpart A]

**68. Consistency of Reporting Methodologies.** Regardless of permit classification, as of September 7, 2022, all stationary sources operating in the state shall report actual emissions to the Department, either upon request or to meet individual permit requirements, in order for the state to meet federal reporting requirements under 40 CFR Part 51, Subpart A.

- 68.1. For the purposes of reporting actual or assessable emissions required under Condition 66 and Condition 41.2, the Permittee shall use consistent pollutant-specific emission factors and calculation methods for all reporting requirements for the stationary source.

[18 AAC 50.040(j)(4), 50.200, 50.275, 50.326(j)(3), & 50.346(b)(8)]  
[40 CFR 51.15, 51.30(a)(1) & (b)(1), & Appendix A to 40 CFR 51 Subpart A]

**69. NSPS and NESHAP Reports and Waivers.** The Permittee shall comply with the following:

- 69.1. **Reports.** Except for previously submitted reports and federal reports and notices submitted through EPA’s Central Data Exchange (CDX) and Compliance and Emissions Data Reporting Interface (CEDRI) online reporting system, attach to the operating report required by Condition 64 for the period covered by the report, a copy of any NSPS and NESHAP reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10. For reports previously submitted to ADEC or submitted through CDX/CEDRI, state in the operating report the date and a brief description of each of the online reports submitted during the reporting period.
- 69.2. **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 50.040(j)(4) & 50.326(j)(4)]  
[40 CFR 60.13, 63.10(d) & (f) and 40 CFR 71.6(c)(6)]

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<sup>21</sup> The required data elements to be reported to the EPA are outlined in 40 CFR 51.15 and Tables 2a and 2b to Appendix A of 40 CFR 51 Subpart A.

**70. Federal Electronic Reporting Allowance.** Effective September 25, 2024, the Permittee may electronically submit in an acceptable digital format reports, notifications, or other required submission types in certain 40 CFR 59, 60, 61, 62, and 63 Subparts that do not already have electronic reporting requirements (i.e., paper reports, notifications, or other submission types), via the CEDRI on the EPA’s CDX, or to another EPA managed electronic document receiving system that may be designated for the receipt of specified submissions in the future.

70.1. Additionally, performance test reports that do not already have Cross-Media Electronic Reporting Rule (CROMERR) compliant electronic reporting requirements may utilize the Electronic Reporting Tool (ERT) (see <https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) to submit those reports to CEDRI in the form of an ERT submission package.

70.2. When a report, notification, or other submission type submitted under this new electronic submission option contains confidential business information (CBI), a file with the CBI omitted or redacted must be submitted to the CEDRI system and a separate, complete submission containing the claimed CBI information must be submitted through the described CBI submission process.

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

[40 CFR 71.6(c)(6)]

[40 CFR 3.2(a)(2), Cross-Media Electronic Reporting; 89 Fed. Reg. 78300 (September 25, 2024)]

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

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

- 71.1. 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;
- 71.2. The information shall be submitted, as follows: (1) to the EPA's CDX and CEDRI online reporting system accessible via [cdx.epa.gov](http://cdx.epa.gov), or (2) as an email attachment to the EPA's air permits mailbox ([R10\\_Air\\_Permits@epa.gov](mailto:R10_Air_Permits@epa.gov)), or (3) as a hardcopy by mail (only if absolutely necessary) to the Part 70 Operating Permit Program, US EPA Region 10, Air Permits and Toxics Branch, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188, listed in order of EPA's preference;
- 71.3. 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
- 71.4. The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

[18 AAC 50.040(j)(7), 50.326(a) & (j)(3), & 50.346(b)(7)]  
[40 CFR 71.10(d)(1)]

**72. 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 CFR 71.6(a)(8)]

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

- 73.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 73.2. 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) through (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;
- 73.3. The change shall not qualify for the shield under 40 CFR 71.6(f); and

73.4. 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 CFR 71.6(a)(12)]

**74. Operational Flexibility.** The Permittee may make Section 502(b)(10)<sup>22</sup> 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):

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

74.2. For each such change, the written notification required by Condition 74.1 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.

74.3. The permit shield described in 40 CFR 71.6(f) shall not apply to any change made pursuant to Condition 74.

[18 AAC 50.040(j)(4) & 50.326(j)]  
[40 CFR 71.6(a)(13)]

**75. Permit Renewal.** To renew this permit, the Permittee shall submit to the Department an application under 18 AAC 50.326 no sooner than **August 2, 2025** and no later than **August 2, 2026**, and according to the submittal instruction in Conditions 61 and 71. 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 CFR 71.7(b) and 71.5(a)(1)(iii).

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

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<sup>22</sup> As defined in 40 CFR 71.2, “CAA Section 502(b)(10) changes” are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

## **Section 9. Compliance Requirements**

### **General Compliance Requirements**

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

76.1. included and specifically identified in the permit; or

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

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

**77.** The Permittee must comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14, 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), 50.326(j) and 50.345(a) & (c)]

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

[18 AAC 50.040(j) & 50.326(j) ]  
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A)]

**79.** 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) and 50.345(a) & (d)]

**80.** 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

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

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

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

80.4. 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)]

## Section 10. Visible Emissions Form

### VISIBLE EMISSION OBSERVATION FORM

This form is designed to be used in conjunction with EPA Method 9, “Visual Determination of the Opacity of Emissions from 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.” (<https://www3.epa.gov/ttnemc01/methods/webinar8.pdf>)

- 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 visible emissions 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, note in the Comments column whether the Plume is “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 color of clouds and 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.
- Observer’s Affiliation: observer’s employer.
- Certifying Organization, 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		
Emission Unit Location				Sec	0	15	30	45	Comments
				Min					
City	State	Zip		1					
Phone # (Key Contact)		Stationary Source ID Number		2					
Process Equipment		Operating Mode		3					
Control Equipment		Operating Mode		4					
Describe Emission Point/Location				5					
Height above ground level				6					
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 stack exit to where the plume was read				10					
No	Yes			11					
Point in Plume at Which Opacity Was Determined				12					
Describe Plume Background		Background Color		13					
Start	Start								
End	End								
Sky Conditions:				14					
Start	End								
Wind Speed				15					
Start	End	Wind Direction From							
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					
				Additional Information:				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:				Date	
				Certified By:				Date	
<b>Data Reduction:</b>									
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)					
<b>Average Opacity Summary:</b>									
Set Number	Time		Opacity		Sum	Average	Comments		
	Start	End							

### Section 11. Notification Form

<u>Eklutna Generation Station</u>	<u>AQ1086TVP02 Revision 1</u>
<b>Stationary Source (Facility) Name</b>	<b>Air Quality Permit Number</b>
<u>Matanuska Electric Association, Inc.</u>	
<b>Company Name</b>	<b>Date</b>

**When did you discover the Excess Emissions/Permit Deviation?**

Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Time: \_\_\_\_\_ :/ \_\_\_\_\_

**When did the event/deviation occur?**

Begin Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Time: \_\_\_\_\_ : \_\_\_\_\_ (please use 24-hr clock)

End Date \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ Time: \_\_\_\_\_ : \_\_\_\_\_ (please 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

Note: All “excess emissions” are also “permit deviations.” However, use only Section 1 for events that involve excess emissions

Deviation from Permit Condition – Complete Section 2 and Certify

Note: Use only Section 2 for permit deviations that do not involve excess emissions.

Deviation from COBC<sup>23</sup>, CO<sup>24</sup>, or Settlement Agreement - Complete Section 2 and Certify

<sup>23</sup> Compliance Order By Consent

<sup>24</sup> Compliance Order

**Section 1. Excess Emissions**

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

(b) **Cause of Event** (Check one that applies. Complete a separate form for each event, as applicable.):

- 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. Attach supporting information if necessary

(d) **Emissions Units Involved:**

Identify the emissions 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

(e) **Type of Incident** (please check all that apply and provide the value requested):

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

(f) **Corrective Actions:**

Describe actions taken to restore the system to normal operation and to minimize or eliminate chances of a recurrence. Attach supporting information if necessary

(g) **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 all boxes that apply per event. Complete a separate form for each event, as applicable):

- Emissions Unit-Specific Requirements
- Stationary Source-Wide Specific Requirements
- Monitoring/Recordkeeping/Reporting Requirements
- General Source Test Requirements
- Compliance Certification Requirements
- Standard/Generally Applicable Requirements
- Insignificant Emissions Unit Requirements
- Other: \_\_\_\_\_

(b) **Emissions Unit Involved:**

Identify the emissions 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. Attach supporting information if necessary.

**(d) Corrective Actions:**

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence. Attach supporting information if necessary.

**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). Read and sign the certification in the bottom of the form above. (See Condition 60.)*

Excess Emissions and Permit Deviations must be submitted through the AOS Permittee Portal at <http://dec.alaska.gov/applications/air/airtoolsweb/>.

This Notification form may only be used to satisfy the reporting requirements if the Department has approved alternative reporting options in writing prior to submittal.

[18 AAC 50.346(b)(3)]