

# DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## AIR QUALITY OPERATING PERMIT

Permit No. AQ0215TVP05

Issue Date: Public Comment - January 11, 2024

Expiration Date: [Five Years]

The Alaska Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **City of Unalaska, Department of Public Utilities**, for the operation of the **Dutch Harbor Power Plant (DHPP)**.

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.

Upon effective date of this permit, Operating Permit AQ0215TVP04, including all revisions, expires.

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

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James R. Plosay, Manager  
Air Permits Program

## Table of Contents

	Abbreviations and Acronyms .....	iv
Section 1.	Stationary Source Information.....	1
	Identification .....	1
Section 2.	Emissions Unit Inventory and Description .....	2
Section 3.	State Requirements .....	3
	Visible Emissions Standard .....	3
	Visible Emissions Monitoring, Recordkeeping, and Reporting (MR&R).....	3
	Particulate Matter (PM) Emissions Standard.....	8
	Particulate Matter MR&R.....	8
	Sulfur Compound Emissions Standard .....	10
	Preconstruction Permit Requirements.....	11
	Insignificant Emissions Units .....	20
Section 4.	Federal Requirements .....	22
	40 CFR Part 60 New Source Performance Standards (NSPS) .....	22
	NSPS Subpart A – General Provisions .....	22
	NSPS Subpart IIII – Compression Ignition Internal Combustion Engines (CI ICE) .....	23
	40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP) .....	28
	Subpart A – General Provisions & Subpart M – Asbestos .....	28
	40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants .....	28
	NESHAP Subpart A – General Provisions .....	28
	NESHAP Subpart ZZZZ – Stationary Reciprocating Internal Combustion Engines .....	29
	40 CFR Part 82 Protection of Stratospheric Ozone .....	31
	NESHAP Applicability Determination Requirements.....	32
Section 5.	General Conditions .....	33
	Standard Terms and Conditions.....	33
	Open Burning Requirements.....	36
Section 6.	General Source Testing and Monitoring Requirements.....	37
Section 7.	General Recordkeeping and Reporting Requirements.....	40
	Recordkeeping Requirements .....	40
	Reporting Requirements .....	40

Section 8. Permit Changes and Renewal .....46

Section 9. Compliance Requirements .....48

    General Compliance Requirements .....48

Section 10. Permit As Shield from Inapplicable Requirements .....50

Section 11. Visible Emissions Forms .....51

Section 12. Notification Form.....53

### Abbreviations and Acronyms

AAAQS .....	Alaska Ambient Air Quality Standard	MR&R.....	monitoring, recordkeeping, and reporting
AAC.....	Alaska Administrative Code	MWh .....	megawatt-hour
ADEC .....	Alaska Department of Environmental Conservation	NAICS.....	North American Industrial Classification System
AOS .....	Air Online Services	NESHAP .....	National Emission Standards for Hazardous Air Pollutants [as contained in 40 CFR 61 and 63]
AS.....	Alaska Statutes	NH <sub>3</sub> .....	ammonia
ASTM.....	American Society for Testing and Materials	NO <sub>x</sub> .....	nitrogen oxides
BACT .....	best available control technology	N <sub>2</sub> O.....	Nitrous Oxide
CDX.....	Central Data Exchange	NSPS .....	New Source Performance Standards [as contained in 40 CFR 60]
CEDRI.....	Compliance and Emissions Data Reporting Interface	O & M .....	operation and maintenance
CFR .....	Code of Federal Regulations	O <sub>2</sub> .....	oxygen
CAA or The Act	Clean Air Act	PAL .....	plantwide applicability limitation
CO .....	carbon monoxide	Pb.....	lead
CO <sub>2e</sub> .....	CO <sub>2</sub> -equivalent	PM.....	particulate matter
COMS.....	continuous opacity monitoring system	PM <sub>10</sub> .....	particulate matter less than or equal to a nominal 10 microns in diameter
Department .....	Alaska Department of Environmental Conservation	PM <sub>2.5</sub> .....	particulate matter less than or equal to a nominal 2.5 microns in diameter
DHPP .....	Dutch Harbor Power Plant	ppm .....	parts per million
dscf.....	dry standard cubic foot	ppmv, ppmvd.....	parts per million by volume on a dry basis
EPA .....	US Environmental Protection Agency	psia .....	pounds per square inch (absolute)
EU ID .....	emissions unit identification number	PSD .....	prevention of significant deterioration
FITR .....	fuel injection timing retard	PTE.....	potential to emit
GHG .....	Greenhouse Gas	SIC.....	Standard Industrial Classification
gr/dscf.....	grain per dry standard cubic foot (1 pound = 7000 grains)	SIP .....	State Implementation Plan
gph.....	gallons per hour	SPC.....	Standard Permit Condition
HAP .....	hazardous air pollutants [as defined in AS 46.14.990]	SO <sub>2</sub> .....	sulfur dioxide
hp.....	horsepower	tph.....	tons per hour
kPa .....	kiloPascals	tpy.....	tons per year
LAER.....	lowest achievable emission rate	VOC .....	volatile organic compound [as defined in 40 CFR 51.100(s)]
MACT .....	maximum achievable control technology [as defined in 40 CFR 63]	VOL.....	volatile organic liquid [as defined in 40 CFR 60.111b, Subpart Kb]
MMBtu/hr.....	million British thermal units per hour	vol% .....	volume percent
MMscf.....	million standard cubic feet	wt% .....	weight percent
		wt% <sub>S<sub>fuel</sub></sub> .....	weight percent of sulfur in fuel

**Section 1. Stationary Source Information**

**Identification**

Permittee:		<b>City of Unalaska, Department of Public Utilities</b> PO Box 610 Unalaska, AK 99685
Stationary Source Name:		<b>Dutch Harbor Power Plant</b>
Location:		53° 53' 18.6" North; 166° 32' 14.28" West
Physical Address:		1732 East Point Road Dutch Harbor, AK, 99685
Owner/Operator:		<b>City of Unalaska, Department of Public Utilities</b> PO Box 610 Unalaska, AK 99685
Permittee's Responsible Official:		Erik Hernandez, Deputy Director of Public Utilities PO Box 610 Unalaska, AK 99685
Designated Agent:		No Designated Agent at time of Public Notice
Stationary Source and Building Contact:		Louis Aguilar, Powerhouse Supervisor PO Box 610 Unalaska, AK 99685 (907) 581-1831 ext. 1 <a href="mailto:LAguilar@ci.unalaska.ak.us">LAguilar@ci.unalaska.ak.us</a>
Fee Contact:		Erin Enlow PO Box 610 Unalaska, AK 99685 (907) 581-1260 <a href="mailto:EEnlow@ci.unalaska.ak.us">EEnlow@ci.unalaska.ak.us</a>
Permit Contact:		Erik Hernandez, Deputy Director of Public Utilities PO Box 610 Unalaska, AK 99685 (907) 581-1260 <a href="mailto:ehernandez@ci.unalaska.ak.us">ehernandez@ci.unalaska.ak.us</a>
Process Description:	SIC Code	4911 - Electric Services
	NAICS Code:	221112 - 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, unless noted elsewhere in the permit.

**Table A - Emissions Unit Inventory**

<b>EU ID</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Fuel</b>	<b>Rating/Size</b>	<b>Installation Date</b>
7	Genset #8	Caterpillar 3516	Diesel	1,180 kWe	1989
8	Genset #9	Caterpillar 3512B	Diesel	1,230 kWe	1994
13	Genset #10	Wärtsilä 12V32C	Diesel	5,211 kWe	2010
14	Genset #11	Wärtsilä 12V32C	Diesel	5,211 kWe	2010
15	Genset #13	Caterpillar C-280	Diesel	4,416 kWe	2011
16	Genset #12	Caterpillar C-280	Diesel	4,416 kWe	2015
17	Genset #15	Caterpillar C-9 DITA	Diesel	250 kWe	2010

[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 7, 8, and 13 through 17 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 IDs 7, 8, and 13 through 16, monitor, record, and report in accordance with Conditions 2 through 4.
- 1.2. For EU ID 17, as long as the emissions unit does not exceed the limit in Condition 17, monitoring shall consist of an annual compliance certification under Condition 75 for the visible emissions standard based on reasonable inquiry.

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

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

##### *Liquid Fuel-Burning Equipment*

- 2. Visible Emissions Monitoring.** When required by Condition 1.1, or in the event of replacement<sup>1</sup> during the permit term, the Permittee shall observe the exhaust of EU IDs 7, 8, and 13 through 16 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 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>2</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 7, 8, and 13 through 16 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.

<sup>1</sup> "Replacement," as defined in 40 CFR 51.166(b)(32).

<sup>2</sup> Visible emissions observations are not required during emergency operations.

- (ii) Except as provided in Condition 2.3.a(iii), for any of EU IDs 7, 8, and 13 through 16, observe exhaust within six months after the effective date of this permit.
- (iii) For any unit replaced, observe exhaust within 60 days of the newly installed emissions unit becoming fully operational.<sup>3</sup> Except as provided in Condition 2.3.e, after the First Method 9 observation:
  - (A) For EU IDs 7, 8, and 13 through 16, continue with the monitoring schedule of the replaced emissions unit.
- 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.
- 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.

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<sup>3</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.



- 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 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 Emissions Observation Form in Section 11;
    - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating 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 11; and
    - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
  - b. To determine the six-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; and
    - (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 74 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 reset the visible emissions monitoring schedule.
- 4.2. Include in each operating report required under Condition 74 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 73:
  - 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 that 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 7, 8, and 13 through 17 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 IDs 7, 8, and 13 through 16, monitor, record, and report in accordance with Conditions 6 through 8.
- 5.2. For EU ID 17, as long as the emissions unit does not exceed the limit in Condition 17, monitoring shall consist of an annual compliance certification under Condition 75 for the PM emissions standard based on reasonable inquiry.

[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. **PM Monitoring.** The Permittee shall conduct source tests on EU IDs 7, 8, and 13 through 16, to determine the concentration of PM in the exhaust of each emissions unit as follows:

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

- 6.1. If the result of any Method 9 observation conducted under Condition 2.3 for any of EU IDs 7, 8, and 13 through 16 is greater than the criteria of Condition 6.2.a or Condition 6.2.b, 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 in 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 requirements 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.
7. **PM Recordkeeping.** The Permittee shall comply with the following:
  - 7.1. 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. **PM 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 Condition 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 74, 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 73:
    - a. anytime the results of a PM 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)]

### **Sulfur Compound Emissions Standard**

9. **Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from EU IDs 7, 8, and 13 through 17 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)]

- 9.1. To ensure compliance with Condition 9, the Permittee shall comply with the fuel sulfur content limit under Conditions 16.3 and 18 and the associated MR&R requirements under Condition 18.1.
- 9.2. If required, fuel testing must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

[40 CFR 71.6(a)(3) & (c)(6)]

10. **Used Oil.** The Permittee may burn used oil in the engines only as follows<sup>4</sup>:

- 10.1. When burning used oil, blend oil into the fuel system consistent with the DHPP Used Oil and Fuel Blending Log to keep the used oil ratio under 0.8 percent.
- 10.2. In the operating report required under Condition 74, include copies of the blending logs noting the used oil added and fuel oil added to produce the desired used oil ratio of less than 0.8 percent.
- 10.3. Report in accordance with Condition 73 any time the blend ratio deviates from Condition 10.1.
- 10.4. Whenever used oil is added to liquid fuel, the Permittee shall comply with Condition 18.1.

[18 AAC 50.040(j) & 50.326(j)]  
[40 CFR 71.6(a)(1), 71.6(a)(3), & 71.6(c)(6)]

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<sup>4</sup> CAUTION! Although this condition should ensure compliance with the applicable emission standards of 18 AAC 50, this permit does not ensure compliance with other applicable state or federal laws concerning management, use, or disposal of used oil.

## Preconstruction Permit <sup>5</sup> Requirements

### 11. Stack Requirements. For EU IDs 13, 14, 15, and 17 construct stacks with:

- 11.1. sampling ports that comport with 40 CFR 60, Appendix A, Method 1, Section 2.1, and stack or duct free of cyclonic flow at the port location during the applicable test methods and procedures;
- 11.2. safe access to sampling ports; and
- 11.3. utilities for emission sampling and testing equipment.

[Condition 5, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 CFR 71.6(a)(1)]

### *Best Available Control Technology (BACT) Requirements*

### 12. NO<sub>x</sub> BACT Limit for Units 13 and 14. Limit the NO<sub>x</sub> emission rate, expressed as NO<sub>2</sub> averaged over three hours, from each of EU IDs 13 and 14 to no greater than 13.6 g/kW-hr at all times. Monitor, record, and report as follows:

- 12.1. Operate each unit with Fuel Injection Timing Retard (FITR) and with an aftercooler with a separate low temperature cooling water circuit.
- 12.2. After every engine re-configuration of EU IDs 13 and 14, conduct NO<sub>x</sub> source tests to ascertain compliance with the NO<sub>x</sub> emission rate limit in this condition. (Conduct the test on the reconfigured engine.) Conduct the test at 100 percent load. Determine the emission rate in g/kW-hr expressed as NO<sub>2</sub>, using exhaust properties determined by Reference Method 19 and exhaust gas measurements as set out in Section 6.
- 12.3. If any NO<sub>x</sub> source test results in a NO<sub>x</sub> emission rate greater than the limit in this condition, report as excess emissions under Condition 73.

[Condition 17, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]  
[40 CFR 71.6(a)(1) & (3)]

### 13. NO<sub>x</sub> BACT Limit for EU ID 17. Limit the NO<sub>x</sub> emission rate, expressed as NO<sub>2</sub> averaged over three hours, from EU ID 17 to no greater than 5.75 g/kW-hr at all times.

[Condition 18.6, Construction Permit AQ0215CPT02, Rev 1, 7/20/2010]  
[40 CFR 71.6(a)(1)]

- 13.1. Comply with Condition 32.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

### 14. BACT Limits for EU ID 15. The Permittee shall limit the emissions from EU ID 15 to the values shown below in Table B. The Permittee shall implement the BACT controls on EU ID 15 listed in Table B.

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<sup>5</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 on or after October 1, 2004.

**Table B – BACT Limits and Controls for EU ID 15**

Pollutant	BACT Control	BACT Emission Limit
NOx	Turbocharger/Aftercooler	9.8 g/kW-hr
PM <sub>2.5</sub>	Positive Crankcase Ventilation	0.50 g/kW-hr

[Conditions 20, 20.1, & Table 3, Minor Permit AQ0215MSS03, 11/28/2012]

- 14.1. To show compliance with the NOx BACT limit, the Permittee shall comply with the NOx monitoring requirements in NSPS Subpart IIII, set forth in Conditions 32 and 33.1.

[Conditions 20.2 & 20.2b, Minor Permit AQ0215MSS03, 11/28/2012]  
 [40 CFR 71.6(a)(3)]

- 14.2. To show compliance with the PM<sub>2.5</sub> BACT limit, the Permittee shall comply with the PM monitoring requirements in NSPS Subpart IIII, set forth in Conditions 32 and 33.1.

[Conditions 20.3 & 20.3b, Minor Permit AQ0215MSS03, 11/28/2012]  
 [40 CFR 71.6(a)(3)]

- 14.3. Report in accordance with Condition 73 if EU ID 15 is operated without the BACT controls listed in Table B.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

*Ambient Air Quality Protection Requirements*

15. To protect the annual NO<sub>2</sub> Alaska Ambient Air Quality Standard (AAAQS) and increment; the 24-hour and annual PM<sub>2.5</sub> AAAQS; the 24-hour and annual PM<sub>10</sub> increment; the 1-hour, 3-hour, 24-hour, and annual SO<sub>2</sub> AAAQS and the 3-hour, 24-hour, and annual SO<sub>2</sub> increment, the Permittee shall:

- 15.1. For each exhaust stack that is installed and operated on EU IDs 7, 8, 13 through 15 and 17, construct the exhaust stack to have a release point that equals or exceeds an above grade height of the values listed in Table C.

**Table C – Emission Unit Stack Heights**

EU ID	Description	Stack Height (m)
7	Caterpillar 3516	25.6
8	Caterpillar 3512B	25.6
13	Wärtsilä 12V32C	26.2
14	Wärtsilä 12V32C	26.2
15	Caterpillar C-280	25.6
17	Caterpillar C-9 DITA	3.66

[Conditions 15, 15.1, & Table 2, Minor Permit AQ0215MSS03, 11/28/2012]  
 [40 CFR 71.6(a)(1)]



- 16.** The Permittee shall protect the 1-hour, 3-hour, 24-hour and annual SO<sub>2</sub> AAAQS by complying with the following:
- 16.1. Construct and maintain EU ID 16 with the minimum stack height of 25.4 meters above grade.
  - 16.2. Construct and maintain EU ID 16 with an uncapped, vertical release. This condition does not preclude the use of flapper valve rain covers, or other similar designs, that do not hinder the vertical momentum of the exhaust plume.
  - 16.3. Burn diesel fuel with a sulfur content of no greater than 0.01 percent by weight (wt%) in EU ID 16.  

[Condition 6, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

    - a. Monitor, record, and report in accordance with Conditions 18.1.a through 18.1.e and 18.1.g.
    - b. If the fuel combusted in EU ID 16 exceeds 0.01 wt% sulfur, report in accordance with Condition 73.  

[40 CFR 71.6(a)(3) & 71.6(c)(6)]
- 17.** To protect the annual NO<sub>2</sub> increment, the Permittee shall operate EU ID 17 no more than 100 hours per rolling 12-month period.  

[Conditions 16 & 16.1, Minor Permit AQ0215MSS03, 11/28/2012]  
[40 CFR 71.6(a)(1)]

  - 17.1. Install on EU ID 17 a non-resettable hour meter.
  - 17.2. Monitor and record the hours of operation of EU ID 17.
  - 17.3. Before the end of each calendar month calculate and record the total hours of operation for EU ID 17 for the previous month, then calculate the rolling 12-month total hours of operation by adding the previous 11 months.
  - 17.4. Report the monthly and rolling 12-month hours of operation for each month in the operating report required under Condition 74.
  - 17.5. Report in accordance with Condition 73 if the consecutive 12-month operating hours exceed the limit in Condition 17.  

[Conditions 16.1a through 16.1e, Minor Permit AQ0215MSS03, 11/28/2012]  
[40 CFR 71.6(a)(3)]
- 18.** To protect the 1-hour, 3-hour, 24-hour, and annual SO<sub>2</sub> AAAQS and the 3-hour, 24-hour, and annual SO<sub>2</sub> increment, the Permittee shall burn diesel fuel with a sulfur content of no greater than 0.01 wt%S (100 ppm) in EU IDs 7, 8, 13 through 15 and 17.  

[Conditions 17 & 17.1, Minor Permit AQ0215MSS03, 11/28/2012]  
[40 CFR 71.6(a)(1)]

  - 18.1. Monitor, record, and report as follows:  

[Condition 17.1a, Minor Permit AQ0215MSS03, 11/28/2012]  
[40 CFR 71.6(a)(3)]

- a. Obtain a statement or receipt from the fuel supplier certifying the maximum sulfur content of the fuel for each shipment of fuel delivered to DHPP. If a certified statement or receipt is not available from the supplier, analyze a representative sample of any fuel added to any tank in accordance with Condition 18.1.b.
- b. If required under this permit to determine the sulfur content of fuel oil, analyze fuel sulfur content in accordance with Condition 9.2.  
[Conditions 17.1a(i) & (ii), Minor Permit AQ0215MSS03, 11/28/2012]
- c. Except as indicated in Condition 18.1.d, calculate and record the sulfur content, by weight, of the fuel in each tank, after each time fuel is added to a tank, using Equation 1:

### Equation 1

$$S_T = \frac{(Q_D \times S_D) + (Q_{BD} \times S_{BD})}{Q_T}$$

- Where:
- $Q_D$  = quantity of delivered fuel, pounds
  - $S_D$  = sulfur content of delivered fuel, percent sulfur by weight (wt%S)
  - $Q_{BD}$  = quantity of fuel in tank before delivery, pounds
  - $S_{BD}$  = sulfur content of fuel in tank before delivery, percent sulfur by weight
  - $S_T$  = sulfur content of blended fuel in the tank, percent sulfur by weight (will be  $S_{BD}$  for next calculation)
  - $Q_T$  = total quantity of fuel in tank ( $Q_D + Q_{BD}$ ), pounds

[Condition 17.1a(iv), Minor Permit AQ0215MSS03, 11/28/2012]

- d. If the fuel sulfur content in a given tank ( $S_{BD}$ ) is less than 0.01 wt%S and the sulfur content of a given fuel oil delivery is less than 0.01 wt%S, then the Permittee may forego fuel sulfur content calculations in Condition 18.1.c for that delivery. If the Permittee foregoes fuel sulfur content calculations for a delivery, then for the next fuel delivery for which the fuel sulfur content is greater than 0.01 wt%S, the Permittee shall either  
[Condition 17.1a(v), Minor Permit AQ0215MSS03, 11/28/2012]
  - (i) assume the fuel sulfur content of the fuel in the tank is 0.01 wt%S; or
  - (ii) test the fuel sulfur content of the fuel in the tank in accordance with Condition 18.1.b.

[Conditions 17.1a(v)(A) & (B), Minor Permit AQ0215MSS03, 11/28/2012]

- e. Keep records of statements or receipts from the fuel supplier showing sulfur content and quantity of each shipment of fuel under Condition 18.1.a, results of each sulfur measurement required under Condition 18.1.b, and each fuel sulfur calculation conducted under Condition 18.1.c.

- f. If the fuel sulfur content combusted in any of EU IDs 7, 8, 13 through 15 and 17 exceeds 0.01 wt%S, report in accordance with Condition 73.  
[Conditions 17.1a(vi) & (vii), Minor Permit AQ0215MSS03, 11/28/2012]
- g. In the operating report required by Condition 74, include a statement indicating whether all fuel combusted in EU IDs 7, 8, and 13 through 17 during the reporting period was ULSD. Include fuel sulfur test results, if applicable.  
[40 CFR 71.6(c)(6)]

- 19.** To protect the 24-hour PM<sub>10</sub> increment and 24-hour PM<sub>2.5</sub> AAAQS, the Permittee shall operate EU ID 17 only 12 hours or less in any rolling 24-hour period.  
[Conditions 18 & 18.1, Minor Permit AQ0215MSS03, 11/28/2012]  
[40 CFR 71.6(a)(1)]

- 19.1. Record the start and stop times and dates for EU ID 17.
- 19.2. Calculate and record the hours of operation of EU ID 17 for each consecutive 24-hour period.  
[40 CFR 71.6(a)(3) & 71.6(c)(6)]
- 19.3. Include the information in Conditions 19.1 and 19.2 in each operating report under Condition 74.  
[Conditions 18.1a & 18.1b, Minor Permit AQ0215MSS03, 11/28/2012]  
[40 CFR 71.6(a)(3) & 71.6(c)(6)]
- 19.4. Report in accordance with Condition 73 if EU ID 17 is operated for more than 12 hours in any rolling 24-hour period.  
[Condition 18.1c, Minor Permit AQ0215MSS03, 11/28/2012]

*Owner Requested Limits (ORLs)*

- 20. ORL to Avoid PSD Review for SO<sub>2</sub> and VOC.** The Permittee shall limit emissions of VOC to no more than 51.2 tons per year and emissions of SO<sub>2</sub> to no more than 46.8 tons per year by complying with the following:
- 20.1. Comply with Condition 18.  
[Conditions 22 & 22.2, Minor Permit AQ0215MSS03, 11/28/2012]
  - 20.2. The Permittee shall calculate and report actual VOC and SO<sub>2</sub> emissions as follows:  
[Condition 8, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]
    - a. Maintain a dedicated fuel meter on each of EU IDs 7, 8, and 13 through 15.
      - (i) Monitor and record the monthly fuel usage for each of EU IDs 7, 8, and 13 through 15.

- b. Before the end of each calendar month, calculate and record the combined VOC emissions from EU IDs 7, 8, and 13 through 15 for the previous month, using Equation 2 and fuel use records from Condition 20.2.a(i), Equation 3 and power production records from Condition 21.1.a, and VOC emission factors in Table D or more recent emission factors from a Department accepted source test.

**Equation 2**

$$VOC_{EU} = \frac{Fuel_{EU} * EF_{EU} * 0.139}{2000}$$

Where: *VOC<sub>EU</sub>* = monthly VOC emissions for an individual EU in tons  
*Fuel<sub>EU</sub>* = fuel combusted in a calendar month for an individual EU in gallons  
*EF<sub>EU</sub>* = VOC emission factor for an individual EU in lb/MMBtu  
 0.139 = assumed energy content of liquid fuel in MMBtu/gallon  
 2000 = pounds per ton conversion factor

**Equation 3**

$$VOC_{EU} = \frac{kW hr_{EU} * EF_{EU}}{453.6 * 2000}$$

Where: *VOC<sub>EU</sub>* = monthly VOC emissions for an individual EU in tons  
*kW-hr<sub>EU</sub>* = monthly energy produced for an individual EU in kilowatt hours  
*EF<sub>EU</sub>* = VOC emission factor for an individual EU in g/kW-hr  
 453.6 = grams per pound conversion factor

**Table D: VOC Emission Factors**

EU ID	Emission Factor
7	0.082 lb/MMBtu
8	0.082 lb/MMBtu
13	0.082 lb/MMBtu
14	0.082 lb/MMBtu
15	0.64 g/kW-hr

[Conditions 8.1, 8.2, & Table 2, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- c. Calculate the 12-month rolling VOC emissions by adding the previous 11 months.
- d. Before the end of each calendar month, calculate and record the combined SO<sub>2</sub> emissions from EU IDs 7, 8, and 13 through 15 for the previous month, using the mass balance calculation in Equation 4.

**Equation 4**

$$SO_2 = \frac{M_{fuel} * 0.0001 * 7 * 2}{2000}$$

Where:  $SO_2$  = monthly  $SO_2$  emissions for EU IDs 7, 8, and 13–15, in tons  
 $M_{fuel}$  = monthly fuel usage for EU IDs 7, 8, & 13–15 combined, in gallons  
0.0001 = maximum sulfur content for EU IDs 7, 8, & 13–15, in lb S/lb fuel  
7 = assumed density of liquid fuel in pounds per gallon  
2 = moles of  $SO_2$  produced per mole of sulfur in fuel  
2000 = pounds per ton conversion factor

- e. Calculate the 12-month rolling  $SO_2$  emissions by adding the previous 11 months.

[Conditions 8.3 – 8.5, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- f. Include copies of the records required in Conditions 20.2.b through 20.2.e in the operating report required under Condition 74.
- g. Report in accordance with Condition 73 if the combined VOC emissions calculated under Condition 20.2.c exceeds 51.2 tpy or if the combined  $SO_2$  emissions calculated under Condition 20.2.e exceeds 46.8 tpy.

[Conditions 8.6 & 8.7, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- 21. **ORL to Avoid PSD Review for  $PM_{10}$ .** The Permittee shall limit  $PM_{10}$  emissions from EU IDs 7, 8, 13, 14, 15, and 17 to no more than 22.3 tons per year and shall calculate actual  $PM_{10}$  emissions as follows:

[Condition 10, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- 21.1. Maintain a dedicated kilowatt meter with an accuracy of plus or minus two percent on EU IDs 7, 8, 13 through 15, and 17.
  - a. Monitor and record the monthly kilowatts produced by EU IDs 7, 8, 13 through 15, and 17.

[Condition 10.1, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- 21.2. Before the end of each calendar month calculate and record the combined  $PM_{10}$  emissions from EU IDs 7, 8, 13, 14, 15, and 17 for the previous month using Equation 5 and fuel use records from Condition 20.2.a(i), Equation 6 and power production records from Condition 21.1.a, and  $PM_{10}$  emission factors in Table E or more recent emission factors from a Department accepted source test.

**Equation 5**

$$PM_{10} = \frac{Fuel_{EU} * EF_{EU} * 0.139}{2000}$$

Where:  $PM_{10}$  = monthly  $PM_{10}$  emissions for an individual EU in tons  
 $Fuel_{EU}$  = fuel combusted in a calendar month for an individual EU in gallons  
 $EF_{EU}$  =  $PM_{10}$  emission factor for an individual EU in lb/MMBtu

*0.139 = assumed energy content of liquid fuel in MMBtu/gallon*  
*2000 = pounds per ton conversion factor*

**Equation 6**

$$PM_{10} = \frac{kWhr_{EU} * EF_{EU}}{453.6 * 2000}$$

*Where: PM<sub>10</sub> = monthly PM<sub>10</sub> emissions for an individual EU in tons*  
*kW-hr<sub>EU</sub> = monthly power produced for an individual EU in kilowatt hours*  
*EF<sub>EU</sub> = PM<sub>10</sub> emission factor for an individual EU in g/kW-hr*  
*453.6 = grams per pound conversion factor*

**Table E – PM<sub>10</sub> Emission Factors**

EU ID	Emission Factor
7	0.0573 lb/MMBtu
8	0.0573 lb/MMBtu
13	0.2 g/kW-hr
14	0.2 g/kW-hr
15	0.394 g/kW-hr
17	0.2 g/kW-hr

[Condition 10.2 & Table 3, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- 21.3. Calculate the 12-month rolling PM<sub>10</sub> emissions by adding the previous 11 months.
- 21.4. Include copies of the records required under Conditions 21.2 and 21.3 in the operating report required under Condition 74.
- 21.5. Report in accordance with Condition 73 if the combined PM<sub>10</sub> emissions calculated under Condition 21.3 exceed the limit in Condition 21.

[Conditions 10.3 – 10.5, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- 22. The Permittee shall source test EU ID 13 or 14 for PM<sub>10</sub> emissions during this permit term, in accordance with the requirements of Section 6, to verify the emission factors in Table E.
  - 22.1. Conduct source tests at three loads in the normal operating range of the emissions unit; within ± 10 percent of 50 and 75 percent of maximum possible load and within ± 10 percent of 100 percent of maximum possible or maximum achievable load.
  - 22.2. If a Department accepted source test result is higher than an emission factor in Table E, the Permittee shall use the source test result in lieu of the Table E emission factor, for the calculations required under Condition 21, beginning on the first day of the month in which the source test results were accepted by the Department.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

**23. ORL to Avoid PSD Review for NOx.** The Permittee shall limit the combined NOx emissions from EU IDs 7 and 16 to no more than 161.7 tons per year and shall calculate actual NOx emissions as follows:

[Condition 11, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- 23.1. Install and maintain a dedicated kilowatt meter with an accuracy of plus or minus two percent on EU ID 16.
  - a. Monitor and record the monthly kilowatts produced by EU ID 16.
- 23.2. Before the end of each calendar month calculate and record the combined NOx emissions from EU IDs 7 and 16 for the previous month using Equation 7 and power production records from Conditions 21.1.a and 23.1.a, and NOx emission factors in Table F or more recent emission factors from a Department accepted source test.

**Equation 7**

$$NOx = \frac{kW hr_7 * EF_7 + kW hr_{16} * EF_{16}}{453.6 * 2000}$$

*Where:*  $NOx$  = monthly NOx emissions for EU IDs 7 & 16 combined, in tons  
 $kW-hr$  = monthly energy produced for an individual EU, in kilowatt hours  
 $EF$  = NOx emission factor for an individual EU, in g/kW-hr  
 $453.6$  = grams per pound conversion factor

**Table F – NOx Emission Factors**

EU ID	Emission Factor
7	17.7 g/kW-hr
16	8.83 g/kW-hr

[Conditions 11.1, 11.2 & Table 4, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

- 23.3. Calculate the 12-month rolling NOx emissions by adding the previous 11 months.
- 23.4. Include copies of the records required under Conditions 23.2 and 23.3 in the operating report required under Condition 74.
- 23.5. Report in accordance with Condition 73 if the combined NOx emissions calculated under Condition 23.3 exceed the limit in Condition 23.

[Conditions 11.3 – 11.5, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

**24.** The Permittee shall source test EU IDs 7 and 16 for NOx emissions within one year of the issue date of this operating permit, in accordance with the requirements of Section 6, to verify the emission factors in Table F.

- 24.1. Conduct source tests at the following loads:
  - a. For EU ID 7, at ± 5 percent of 100 percent of maximum rated load or maximum achievable load; and

- b. For EU ID 16, at  $\pm 5$  percent of 85 percent of maximum rated load (i.e., 3,760 kWe).

24.2. If a Department accepted source test result is higher than an emission factor in Table F, the Permittee shall use the source test result in lieu of the Table F emission factor, for the calculations required under Condition 23, beginning on the first day of the month in which the source test results were accepted by the Department.

[40 CFR 71.6(a)(3) & 71.6(c)(6)]

**25. Power Production Limit.** The Permittee shall limit the power produced by EU ID 16 to no greater than 3,760 kWe for any given hour. Demonstrate compliance as follows:

25.1. Monitor and record hourly power production for EU ID 16.

- a. Identify the highest hourly power produced for each calendar day and the highest hourly power produced for each calendar month.

25.2. Include the highest hourly power produced (kWe) by EU ID 16 and the date on which it occurred, for each calendar month of the reporting period.

25.3. Report in accordance with Condition 73 any time the power produced by EU ID 16 exceeds the limit in Condition 25.

[Condition 12, Minor Permit AQ0215MSS05 Rev 1, 4/13/2023]

### Insignificant Emissions Units

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

26.1. **Visible Emissions Standard:** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from an industrial process or 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)]

26.2. **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)]

26.3. **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)]

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

- a. Submit the compliance certifications of Condition 75 based on reasonable inquiry;



- b. Comply with the requirements of Condition 56; and
- c. Report in the operating report required under Condition 74 if an emissions unit has historically been classified as insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and current actual emissions have become greater than any of those thresholds.
- d. No other monitoring, recordkeeping or reporting is required for insignificant emissions units to demonstrate compliance with the emissions standards under Conditions 26.1, 26.2, and 26.3.

[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**

**27. NSPS Subpart A Notification.** Unless exempted by a specific subpart, for any affected facility<sup>6</sup> or existing facility<sup>7</sup> regulated under NSPS requirements in 40 CFR 60, the Permittee shall furnish the Administrator<sup>8</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) & 60.15(d), Subpart A]

27.1. A notification of the date 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 completed form;

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

27.2. 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]

27.3. 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:<sup>9</sup>

- 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]

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

[40 CFR 60.15(d), Subpart A]

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<sup>6</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>7</sup> *Existing facility* means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in 40 CFR Part 60, 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>8</sup> The Department defines “Administrator” in 18 AAC 50.990(2).

<sup>9</sup> The Department and EPA may request additional relevant information subsequent to this notice.

- a. the name and address of owner or operator,
- b. the location of the existing facility,
- c. a brief description of the existing facility and the components that are to be replaced,
- d. a description of the existing and proposed air pollution control equipment,
- e. an estimate of the fixed capital cost of the replacements, and of constructing a comparable entirely new facility,
- f. the estimated life of the existing facility after the replacements, and
- g. a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

**28. NSPS Subpart A Performance (Source) Tests.** The Permittee shall conduct source tests according to 40 CFR 60.8 and Section 6 on any affected facility at such times as may be required by the Administrator.

[18 AAC 50.040(a)(1)]  
[40 CFR 60.8, Subpart A]

**29. 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 31. 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 III<sup>10</sup> – Compression Ignition Internal Combustion Engines (CI ICE)**

**30. NSPS Subpart III Applicability and General Compliance Requirements.** For EU IDs 15 through 17, the Permittee shall comply with the applicable requirements for stationary CI ICE located in remote areas of Alaska<sup>11</sup> whose construction<sup>12</sup> commences after July 11, 2005, where the stationary CI ICE are manufactured after April 1, 2006.

[18 AAC 50.040(a)(2)(OO) & (j)(4) & 50.326(j)]  
[40 CFR 71.6(a)(1)]  
[40 CFR 60.4200(a)(2)(i), Subpart III]

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<sup>10</sup> The provisions of NSPS Subpart III listed in Conditions 30 through 34 are current as amended through March 27, 2023. 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 these conditions.

<sup>11</sup> *Remote areas of Alaska*, as defined in 40 CFR 60.4219.

<sup>12</sup> For the purposes of NSPS Subpart III, 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).

- 30.1. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emissions standards as required in Condition 31 over the entire life of the engine.

[40 CFR 60.4206, Subpart III]

- 30.2. Comply with the applicable provisions of 40 CFR 60 Subpart A. Table 8 to Subpart III shows which parts of the General Provisions in 40 CFR 60.1 through 60.19 apply to you.

[40 CFR 60.4218(a) & Table 8, Subpart III]

- 31. NSPS Subpart III Emission Standards.** The Permittee shall comply with the emission standards for new CI engines in 40 CFR 60.4201 and 60.4202, for their 2007 model year and later stationary CI ICE, as applicable:

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

[40 CFR 71.6(a)(1)]

[40 CFR 60.4204(b) & 60.4205(b), Subpart III]

- 31.1. Exhaust emissions from EU IDs 15 and 16 shall not exceed the following exhaust emission standards:

- a. 9.8 g/kW-hr of NO<sub>x</sub> + THC
- b. 5.0 g/kW-hr of CO
- c. 0.50 g/kW-hr of PM

[40 CFR 60.4201(d)(1) & (3) & 60.4204(b), Subpart III]

[40 CFR 1042, Table 2 to Appendix I]

- 31.2. Exhaust emissions from EU ID 17 shall not exceed the following exhaust emission standards:

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

[40 CFR 60.4202(a)(2) & 60.4205(b), Subpart III]

[40 CFR 1039, Table 3 to Appendix I]

- 31.3. Measure smoke opacity as specified in 40 CFR 1039.105(c). Smoke from EU ID 17 may not exceed the following standards:

- a. 20 percent during the acceleration mode.
- b. 15 percent during the lugging mode.
- c. 50 percent during the peaks in either the acceleration or lugging modes.

[40 CFR 1039.105, Subpart B]

31.4. Notwithstanding the requirements in Conditions 31.2 and 31.3, EU ID 17 may be certified to the provisions of 40 CFR 1042 for commercial engines that are applicable for the engine's model year, displacement, power density, and maximum engine power if the engines will be used solely in remote areas of Alaska.

[40 CFR 60.4202(g) & (g)(1), Subpart III]

31.5. For EU IDs 15 through 17, the Permittee shall comply with the following:

- a. Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must do so according to 40 CFR 60.4212(a) through (e) and must meet the not-to-exceed (NTE) standards as indicated in 40 CFR 60.4212.

[40 CFR 60.4204(d), 60.4205(e), & 60.4212, Subpart III]

**32. NSPS Subpart III Compliance Requirements.** For EU IDs 15 through 17, the Permittee shall comply with the following:

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

32.1. You must do all of the following, except as permitted under Condition 32.3.

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

[40 CFR 60.4211(a)(1) through (3), Subpart III]

32.2. You must comply with the emission standards specified in Condition 31 by purchasing an engine certified according to 40 CFR 60.4204(b) or 60.4205(b), as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission related specifications except as permitted in Condition 32.3.

[40 CFR 71.6(a)(3)]  
[40 CFR 60.4211(c), Subpart III]

32.3. 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 III]

- a. For EU ID 17, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no

longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

- b. For EU IDs 15 and 16, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

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

- 32.4. For EU ID 17, you must operate the emergency stationary ICE according to the requirements in Conditions 32.4.a through 32.4.c. In order for the engine to be considered an emergency stationary ICE under Subpart III, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Conditions 32.4.a through 32.4.c, is prohibited. If you do not operate the engine according to the requirements in Conditions 32.4.a through 32.4.c, the engine will not be considered an emergency engine under Subpart III and must meet all requirements for non-emergency engines.
  - a. There is no time limit on the use of emergency stationary ICE in emergency situations.
  - b. You may operate your emergency stationary ICE for the purpose specified in Condition 32.4.b(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 32.4.c counts as part of the 100 hours per calendar year allowed by
    - (i) Emergency stationary ICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require

maintenance and testing of emergency ICE beyond 100 hours per calendar year.

- c. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition 32.4.b. Except as provided in 40 CFR 60.4211(f)(3)(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 60.4211(f), Subpart III]

**33. NSPS Subpart III Recordkeeping and Reporting.** The Permittee shall comply as follows:

- 33.1. For EU IDs 15 and 16, the Permittee must keep records of the following information:

[40 CFR 71.6(a)(3)]  
[40 CFR 60.4214(a) & (a)(2), Subpart III]

- a. All notifications submitted to comply with NSPS Subpart III and all documentation supporting any notification.
- b. Maintenance conducted on the engine.
- c. If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.
- d. If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

[40 CFR 60.4214(a)(2), Subpart III]

- 33.2. If EU ID 17 operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in 40 CFR 60.4211(f)(3)(i), you must submit an annual report according to the requirements in 40 CFR 60.4214(d)(1) through (3)

[40 CFR 60.4214(d), Subpart III]

- 33.3. Report in accordance with Condition 73 if any of the requirements in Conditions 30 through 34 are not met.

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

**34. NSPS Subpart III Deadline for Importing or Installing Stationary CI ICE.** The Permittee shall comply with the following:

[18 AAC 50.040(a)(2)(OO) & (j)(4) & 50.326(j)]  
[40 CFR 71.6(a)(1)]  
[40 CFR 60.4200(a)(4), 60.4208(a) – (i), & 60.4216(e), Subpart III]

- 34.1. The Permittee shall not install stationary CI ICE units in previous (2007 – 2017) model years after the dates and as specified in 40 CFR 60.4208(a) – (g).

[40 CFR 60.4208(a) - (g), Subpart III]

- 34.2. In addition to the requirements specified in 40 CFR 60.4201, 60.4202, 60.4204, and 60.4205, the Permittee shall not import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements and after the dates specified in 40 CFR 60.4208(a) – (g).

[40 CFR 60.4208(h), Subpart III]

- 34.3. The requirements of Condition 34 do not apply to stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

[40 CFR 60.4208(i), Subpart III]

#### **40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP)**

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

35. The Permittee shall comply with the applicable 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), (b)(2)(F), & 50.326(j)]  
[40 CFR 61, Subparts A & M, and Appendix A]  
[40 CFR 71.6(a)(1)]

#### **40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants**

##### **NESHAP Subpart A – General Provisions**

36. **NESHAP Subpart A Applicability.** The Permittee shall comply with the applicable requirements of 40 CFR 63 Subpart A in accordance with the provisions for applicability of Subpart A in Table 8 to NESHAP Subpart ZZZZ for EU IDs 7, 8, and 13 through 17.

[18 AAC 50.040(c)(1), (c)(23), 50.040(j)(4) & 50.326(j)]  
[40 CFR 71.6(a)(1) & (a)(3)]  
[40 CFR 63.1-63.15, Subpart A]  
[40 CFR 63.6665 & Table 8, Subpart ZZZZ]



### NESHAP Subpart ZZZZ<sup>13</sup> – Stationary Reciprocating Internal Combustion Engines

**37. NESHAP Subpart ZZZZ Applicability.** The Permittee shall comply with applicable requirements for new<sup>14</sup> and existing<sup>15</sup> stationary reciprocating internal combustion engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions.

- 37.1. For EU IDs 7, 8, 13, and 14, the Permittee shall comply with Conditions 38 through 41.
- 37.2. For EU IDs 15 through 17, the Permittee shall meet the requirements of 40 CFR 63 Subpart ZZZZ by meeting the requirements of 40 CFR 60 Subpart IIII in Conditions 30 through 34. No further requirements apply for such engines under 40 CFR 63.

[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)(1)(iii), (a)(2)(iii) & (c)(1), and 63.6605(a), Subpart ZZZZ]

**38. NESHAP Subpart ZZZZ General Compliance Requirements.** For EU IDs 7, 8, 13, and 14, the Permittee shall comply with the following:

- 38.1. You must be in compliance with the emission limitations, operating limitations, and other requirements in 40 CFR 63 Subpart ZZZZ that apply to you at all times.
- 38.2. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 63.6605(a) & (b), Subpart ZZZZ]

**39. NESHAP Subpart ZZZZ Emission and Operation Limitations.** For EU IDs 7, 8, 13, and 14, the Permittee shall comply with the following work and management practices:

- 39.1. You must meet the following requirements, except during periods of startup:
  - a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;

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<sup>13</sup> The provisions of NESHAP Subpart ZZZZ listed in Conditions 37 through 42 are current as amended through May 30, 2023. 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 these conditions.

<sup>14</sup> In accordance with 40 CFR 63.6590(a)(2)(iii), a stationary RICE located at an area source of HAP emissions is *new* if you commenced construction of the stationary RICE on or after June 12, 2006.

<sup>15</sup> In accordance with 40 CFR 63.6590(a)(1)(iii), a stationary RICE located at an area source of HAP emissions is *existing* if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

- b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR 63.6603(a), (b)(1), & Table 2d, Item 1, Subpart ZZZZ]  
[40 CFR 71.6(a)(3)]

39.2. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition 39.1.a, as described below:

- a. The oil analysis must be performed at the same frequency specified for changing the oil in Condition 39.1.a.
- b. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows:
  - (i) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;
  - (ii) viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or
  - (iii) percent water content (by volume) is greater than 0.5.
- c. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil.
- d. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis.
  - (i) If the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later.
- e. The analysis program must be part of the maintenance plan for the engine.

[40 CFR 63.6625(i) & Table 2d (Footnote 1), Subpart ZZZZ]

39.3. You must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR 63.6625(h) & Table 2d, Subpart ZZZZ]

**40. NESHAP Subpart ZZZZ Continuous Compliance.** For EU IDs 7, 8, 13, and 14, you must demonstrate continuous compliance with each requirement in Condition 39 by:

40.1. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

- 40.2. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[Table 6, Item 9(a)(i) & (ii); Subpart ZZZZ]

**41. NESHAP Subpart ZZZZ Recordkeeping Requirements.** For EU IDs 7, 8, 13, and 14, you must comply with the following:

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

[40 CFR 63.6655(e), Subpart ZZZZ]

- 41.2. You must keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine.

[40 CFR 63.6625(i), Subpart ZZZZ]

- 41.3. Your records must be in a form suitable and readily available for expeditious review. Keep each record in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1), except that all records may be retained off site.

[40 CFR 63.6660 & Table 8, Subpart ZZZZ]

[40 CFR 63.10(b)(1), Subpart A]

**42. NESHAP Subpart ZZZZ Reporting Requirements.** For EU IDs 7, 8, 13, and 14, you must report as follows:

- 42.1. Include in the operating report required under Condition 74 a report of all deviations as defined in 40 CFR 63.6675 and of each instance in which an applicable requirement in 40 CFR 63, Subpart A (Table 8 to Subpart ZZZZ) was not met.

[40 CFR 63.6640(e) & 63.6650(f), Subpart ZZZZ]

- 42.2. Notify the Department in accordance with Condition 73 if any of the requirements in Conditions 38 through 41 were not met.

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

[40 CFR 71.6(a)(3)(iii) & (c)(6)]

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

**43. Subpart F – Recycling and Emissions Reduction.** The Permittee shall comply with the applicable 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]

**44. Subpart G – Significant New Alternatives.** The Permittee shall comply with the applicable prohibitions set out in 40 CFR 82.174 (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]

- 45. Subpart H – Halons Emissions Reduction.** The Permittee shall comply with the applicable prohibitions set out in 40 CFR 82.270 (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**

- 46.** 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).
- 46.1. If an owner or operator of a stationary source who is in the relevant source category determines 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 63.10(b)(3).
- 46.2. 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).
- 46.3. 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 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), 63.9(b), & 63.10(b)(3), Subpart A]

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

### **Standard Terms and Conditions**

47. 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)]

48. 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)]

49. 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)]

50. **Administration Fees.** The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400-403.

[18 AAC 50.326(j)(1), 50.400, & 50.403]  
[AS 37.10.052(b) & AS 46.14.240]

51. **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 in quantities 10 tons per year or greater. The quantity for which fees will be assessed is the lesser of the stationary source's:

51.1. potential to emit of 1,481.09 tpy; or

51.2. 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 of 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]

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

- 52.1. 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 51.2. 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/>.
- 52.2. 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.
- 52.3. 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 in Condition 51.1.

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

- 53. 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)]

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

54.1. The Permittee shall keep records of:

- a. complaints received by the Permittee and complaints received by the Department and conveyed to the Permittee; and
- b. any additional precautions that are taken
  - (i) to address complaints described in Condition 54.1.a or to address the results of Department inspections that found potential problems; and
  - (ii) to prevent future dust problems.

54.2. The Permittee shall report according to Condition 56.3.

[18 AAC 50.045(d), 50.326(j)(3), & 50.346(c)]

- 55. 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 stationary 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)]

- 56. 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)]

56.1. **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 56.
- 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 56; or
  - (ii) the Department notifies the Permittee that it has found a violation of Condition 56.

56.2. **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 56; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

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

- a. With each stationary source operating report under Condition 74, 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 73.

**57. Technology-Based Emission Standard.** If an unavoidable emergency, malfunction (as defined in 18 AAC 50.235(d)), or non-routine repair (as defined in 18 AAC 50.990(64)), causes emissions in excess of a technology-based emission standard<sup>16</sup> listed in Conditions 12, 13, 14, 31, and 43 (refrigerants), the Permittee shall

- 57.1. take all reasonable steps to minimize levels of emissions that exceed the standard; and
- 57.2. report in accordance with Condition 73.1.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

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

- 58.1. 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
- 58.2. Include this condition in the annual certification required under Condition 75.

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

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<sup>16</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.



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

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

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

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

[18 AAC 50.220(b)]

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

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

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

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

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

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

[18 AAC 50.040(b) & 50.220(c)(1)(B)]  
[40 CFR 61]

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

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

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

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

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

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

61.6. 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]

61.7. 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)(32) & 50.220(c)(2)]  
[40 CFR 63, Appendix A, Method 301]

**62. Excess Air Requirements.** To determine compliance with this permit, standard exhaust gas volumes must include only the volume of gases formed from the theoretical combustion of the fuel, plus the excess air volume normal for the specific 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)]

**63. Test Exemption.** The Permittee is not required to comply with Conditions 65, 66 and 67 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.3) or Smoke/No Smoke Plan (Condition 2.4).

[18 AAC 50.345(a)]

**64. Test Deadline Extension.** The Permittee may request an extension to a source test deadline established by the Department. The Permittee may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.

[18 AAC 50.345(a) & (l)]

**65. Test Plans.** Except as provided in Condition 63, before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the 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 59 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.

[18 AAC 50.345(a) & (m)]

**66. Test Notification.** Except as provided in Condition 63, at least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and the time the source test will begin.

[18 AAC 50.345(a) & (n)]

**67. Test Reports.** Except as provided in Condition 63, within 60 days after completing a source test, the Permittee shall submit one certified copy 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 70. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

[18 AAC 50.345(a) & (o)]

**68. Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 5 and 26.2, 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**

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

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

69.2. 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**

**70. 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.

70.1. 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)]

**71. 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 may submit the documents electronically or by hard copy.

71.1. 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)]

**72. 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)]

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

73.1. **Excess Emissions Reporting.** Except as provided in Condition 56, 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 73.1.d.
- d. Report all other excess emissions not described in Conditions 73.1.a, 73.1.b, and 73.1.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 74 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)]

**73.2. 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 74 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)]

**73.3. Reporting Instructions.** When reporting either excess emissions or permit deviations, the Permittee shall report using the Department’s online form for all such submittals, beginning no later than September 7, 2023. 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 12 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 50.235(a)(2), 50.240(c), 50.326(j)(3), 50.346(b)(2) & (3), & 50.270(a), (b), & (c)]

**74. Operating Reports.** During the life of this permit<sup>17</sup>, the Permittee shall submit to the Department an operating report in accordance with Conditions 70 and 71 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 .

- 74.1. 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.

74.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 74.1, 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>17</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; or
- 74.3. when excess emissions or permit deviation reports have already been reported under Condition 73 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.
- 74.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.3.e, 2.4.c, and 6.2, 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.
- 74.5. **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 50.346(b)(6) & 50.326(j)]  
[40 CFR 71.6(a)(3)(iii)(A)]
- 75. 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 71.
- 75.1. 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.
- 75.2. **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.

- 75.3. 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.

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

**76. 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:

- 76.1. **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 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>.

- 76.2. **Triennial inventory.** Every third year by April 30, if the stationary source's potential to emit does not meet any of the emission thresholds in Condition 76.1 .

- 76.3. For reporting under Condition 76.2, the Permittee shall report the annual emissions and the required data elements under Condition 76.4 every third year for the previous calendar year as scheduled by the EPA.<sup>18</sup>

- 76.4. For each emissions unit and the stationary source, include in the report the required data elements<sup>19</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>.

- 76.5. 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), 50.275, 50.326(j)(3), & 50.346(b)(8)]  
[40 CFR 51.15, 51.30(a)(1) & (b)(1), and Appendix A to 40 CFR 51 Subpart A]

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<sup>18</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 2020, 2023, 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 2023 is due April 30, 2024, triennial emission inventory report for 2026 is due April 30, 2027, etc.).

<sup>19</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.



**77. 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.

77.1. For the purposes of reporting actual or assessable emissions required under Condition 76 and Condition 51.2, 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 C.F.R. 51.15, 51.30(a)(1) & (b)(1), and Appendix A to 40 C.F.R. 51 Subpart A]

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

78.1. **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 74 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.

78.2. **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), & 40 CFR 71.6(c)(6)]

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

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

- 79.1. 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;
- 79.2. The information shall be submitted 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;
- 79.3. 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
- 79.4. 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)]

**80. 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)(4)]  
[40 CFR 71.6(a)(8)]

**81. 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 Parts 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:

- 81.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 81.2. Provide contemporaneous written notice to EPA and the Department of each such change, except for changes that qualify as insignificant under 18 AAC 50.326(d) – (i). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change;
- 81.3. The change shall not qualify for the shield under 40 CFR 71.6(f);
- 81.4. 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)(4)]  
[40 CFR 71.6(a)(12)]

**82. Operational Flexibility.** The Permittee may make CAA Section 502(b)(10)<sup>20</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).

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

82.2. For each such change, the notification required by Condition 82.1 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.

82.3. The permit shield described in 40 CFR 71.6(f) shall not apply to any change made pursuant to Condition 82.

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

**83. Permit Renewal.** To renew this permit, the Permittee shall submit to the Department<sup>21</sup> an application under 18 AAC 50.326 no sooner than **<18 months before the expiration date of this permit>** and no later than **<6 months before the expiration date of this permit>**. The renewal application shall be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the stationary source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 CFR 71.7(b) and 71.5(a)(1)(iii).

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

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<sup>20</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.

<sup>21</sup> Submit permit applications to the Department's Anchorage office. The current address is: Air Permit Intake Clerk, ADEC, 555 Cordova Street, Anchorage, AK 99501.

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

### **General Compliance Requirements**

- 84.** Compliance with permit terms and conditions is considered to be compliance with those requirements that are
- 84.1. included and specifically identified in the permit; or
  - 84.2. determined in writing in the permit to be inapplicable.
- [18 AAC 50.326(j)(3), 50.345(a) & (b)]
- 85.** 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
- 85.1. an enforcement action;
  - 85.2. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or
  - 85.3. denial of an operating permit renewal application.
- [18 AAC 50.040(j), 50.326(j) & 50.345(a) & (c)]
- 86.** 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)(3), (4), & 50.326(j)]  
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A)]
- 87.** It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.
- [18 AAC 50.326(j)(3), 50.345(a) & (d)]
- 88.** The Permittee shall allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator, to
- 88.1. enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
  - 88.2. have access to and copy any records required by the permit;
  - 88.3. inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
  - 88.4. sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.
- [18 AAC 50.326(j)(3), 50.345(a) & (h)]

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

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

**Section 10. Permit As Shield from Inapplicable Requirements**

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

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

- 90.1. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section; or
- 90.2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

[18 AAC 50.040(j)(4) & 50.326(j)]  
 [40 CFR 71.6(f)(3)(i) & (ii)]

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

[18 AAC 50.040(j)(4) & 50.326(j)]  
 [40 CFR 71.6(f)(1)(ii)]

**Table G - Permit Shields Granted**

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
(3) Diesel Storage Tanks (10,000 gallons each)	40 CFR 60 Subpart K	Tanks 1 and 2 were constructed and installed in 1943. Tank 3 was built in 1995.
	40 CFR 60 Subpart Ka	Tanks 1 and 2 were constructed and installed in 1943. Tank 3 was built in 1995.
	40 CFR 60 Subpart Kb	Tanks 1 and 2 were constructed and installed prior to 1984. Tank 3 was constructed after 1984, but has a capacity of 10,000 gallons.

[18 AAC 50.326(j)]  
 [40 CFR 71.6(f)(1)(ii)]

## Section 11. Visible Emissions Forms

### VISIBLE EMISSIONS 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” (a copy is available in <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
City			Min				Comments
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		Height relative to observer		6			
		Clinometer Reading		7			
Distance From Observer		Direction From Observer		8			
Start End		Start End		9			
Describe Emissions & Color				10			
Start End				11			
Visible Water Vapor Present? If yes, determine approximate distance from the stack exit to where the plume was read				12			
No	Yes			13			
Point in Plume at Which Opacity Was Determined				14			
Describe Plume Background		Background Color		15			
Start End		Start End		16			
Sky Conditions:				17			
Start End				18			
Wind Speed		Wind Direction From		19			
Start End		Start End		20			
Ambient Temperature		Wet Bulb Temp		21			
		RH percent		22			
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read 2 Wind Direction From				23			
3 Observer Location 4 Sun Location 5 North Arrow 6 Other Stacks				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:			
				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%:			Highest 18-Consecutive -Minute Average Opacity (%)(engines and turbines only)				
In compliance with six-minute opacity limit? (Yes or No)							
<b>Average Opacity Summary:</b>							
Set Number	Time		Opacity		Sum	Average	Comments
	Start	End					



**Section 12. Notification Form<sup>22</sup>**

Dutch Harbor Power Plant

AQ0215TVP05

Stationary Source Name

Air Quality Permit Number.

City of Unalaska, Department of Public Utilities

Company Name

**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 Conditions - 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>22</sup> Revised as of July 22, 2020.

<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.):

- |  |  |
|--|--|
| <input type="checkbox"/> Start Up/Shut Down        | <input type="checkbox"/> Natural Cause (weather/earthquake/flood)    |
| <input type="checkbox"/> Control Equipment Failure | <input type="checkbox"/> Scheduled Maintenance/Equipment Adjustments |
| <input type="checkbox"/> Bad fuel/coal/gas         | <input type="checkbox"/> Upset Condition                             |
| <input type="checkbox"/> 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 (EU) Involved:**

Identify the emissions units 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, if any):

Opacity \_\_\_\_\_%

Venting \_\_\_\_\_(gas/scf)

Control Equipment Down

Fugitive Emissions

Emission Limit Exceeded

Marine Vessel Opacity

Flaring

Other: \_\_\_\_\_

(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 Units (EU) Involved:**

Identify the emissions units involved in the event, using the same identification number and name as in the permit. List the corresponding permit condition 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 70.)*

Beginning September 7, 2023, 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. Submit this report 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-conditions-iii-and-iv-submission-instructions/>.

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