

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0287TVP06

Issue Date: [EPA Proposed - January 15, 2026]

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, **Copper Valley Electric Association Inc**, for the operation of the **Glennallen Diesel Plant**.

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 must 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 No. AQ0287TVP05 expires.

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

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.....	6
	Particulate Matter MR&R.....	7
	Sulfur Compound Emissions Standard	8
	Sulfur Compound MR&R.....	9
	Preconstruction Permit Requirements.....	10
	Insignificant Emissions Units	12
Section 4.	Federal Requirements	14
	40 C.F.R. Part 60 New Source Performance Standards (NSPS)	14
	New Source Performance Standards Subpart A – General Provisions.....	14
	New Source Performance Standards Subpart IIII – Compression Ignition Internal Combustion Engines (CI ICE), EU ID 9	16
	40 C.F.R. Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP)	18
	Subpart A – General Provisions A & Subpart M – Asbestos	18
	40 C.F.R. Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAP)	18
	NESHAP Subpart A – General Provisions	18
	National Emission Standards Hazardous Air Pollution Subpart ZZZZ – Stationary RICE, EU IDs 6 through 8.....	18
	40 C.F.R. Part 82 Protection of Stratospheric Ozone	22
	General NSPS and NESHAP Applicability Determination Requirements.....	22
Section 5.	General Conditions	24
	Standard Terms and Conditions.....	24
	Open Burning Requirements.....	27
Section 6.	General Source Testing and Monitoring Requirements.....	29
Section 7.	General Recordkeeping and Reporting Requirements.....	32

	Recordkeeping Requirements	32
	Reporting Requirements	32
Section 8.	Permit Changes and Renewal	40
Section 9.	Compliance Requirements	42
	General Compliance Requirements	42
	Compliance Schedule.....	43
Section 10.	Permit As Shield from Inapplicable Requirements	44
Section 11.	Visible Emissions Forms	45
Section 12.	SO ₂ Material Balance Calculation	47
Section 13.	Notification Form.....	48

Abbreviations and Acronyms

AAC.....	Alaska Administrative Code	MMscf.....	Million Standard Cubic Feet
ADEC	Alaska Department of Environmental Conservation	MR&R	Monitoring, Recordkeeping, and Reporting
Administrator.....	EPA and the Department.	NAICS.....	North American Industrial Classification System
AOS	Air Online Services	NESHAP	National Emission Standards for Hazardous Air Pollutants [as contained in 40 C.F.R. 61 and 63]
AS.....	Alaska Statutes	NH ₃	Ammonia
ASTM.....	American Society for Testing and Materials	NO _x	Nitrogen oxides
BACT	Best Available Control Technology	NSPS	New Source Performance Standards [as contained in 40 C.F.R. 60]
CDX.....	Central Data Exchange	NTE.....	Not to Exceed
CEDRI.....	Compliance and Emissions Data Reporting Interface	O ₂	Oxygen
C.F.R.	Code of Federal Regulations	Pb	Lead
CI ICE.....	Compression Ignition Internal Combustion Engine	PM.....	Particulate matter
CAA or The Act .	Clean Air Act	PM ₁₀	Particulate matter less than or equal to a nominal 10 microns in diameter
CO	Carbon Monoxide	PM _{2.5}	Particulate matter less than or equal to a nominal 2.5 microns in diameter
CO _{2e}	CO ₂ -equivalent	ppm	Parts per million
CROMERR.....	Cross-Media Electronic Reporting Rule	ppmv, ppmvd	Parts per million by volume on a dry basis
Department.....	Alaska Department of Environmental Conservation	psia	Pounds per square inch (absolute)
EPA	US Environmental Protection Agency	PSD	Prevention of Significant Deterioration
EU.....	Emissions unit	PTE	Potential to Emit
EU ID	Emissions unit identification number	RICE.....	Reciprocating Internal Combustion Engine
GAPCP	Good Air Pollution Control Practice	SIC.	Standard Industrial Classification
g/kWh.....	Grams per Kilowatt Hour	SIP.....	State Implementation Plan
GHG	Greenhouse Gas	SPC	Standard Permit Condition
gr/dscf.....	grain per dry standard cubic foot (1 pound = 7000 grains)	SO ₂	Sulfur Dioxide
HAPs	Hazardous Air Pollutants [as defined in AS 46.14.990]	TPH.....	tons per hour
Hp	Horsepower	TPY	tons per year
kPa	Kilopascals	VOC	Volatile organic compound [as defined in 40 C.F.R. 51.100(s)]
kWh.....	Kilowatt Hour	VOL	Volatile organic liquid [as defined in 40 C.F.R. 60.111b, Subpart Kb]
LAER.....	Lowest Achievable Emission Rate	vol%	volume percent
Lb/kWh.....	Pounds per Kilowatt hour	wt%	weight percent
MACT	Maximum Achievable Control Technology [as defined in 40 C.F.R. 63]	wt%S _{fuel}	weight percent of sulfur in fuel
MMBtu/hr.....	Million British Thermal Units per hour		

Section 1. Stationary Source Information

Identification

Permittee:	Copper Valley Electric Association Inc Mailing Address City, State Zip Code	
Stationary Source Name:	Glennallen Diesel Plant	
Location:	62° 07' 07" North; 145° 31' 46" West	
Physical Address:	Mile 187 Glenn Highway Glennallen, Alaska 99588	
Owner:	Copper Valley Electric Association Inc PO Box 927 Valdez, AK 66986	
Operator:	Copper Valley Electric Association Inc PO Box 927 Valdez, AK 66986	
Permittee's Responsible Official:	Steve Williams, Power Generation Manager PO Box 927 Valdez, AK 99686	
Designated Agent:	Steve Williams, Power Generation Manager PO Box 927 Valdez, AK 99686	
Stationary Source and Building Contact:	Steve Williams, Power Generation Manager PO Box 927 Valdez, AK 99686 (907) 831-0565 swilliams@cvea.org	
Fee Contact:	Steve Williams, Power Generation Manager PO Box 927 Valdez, AK 99686 (907) 831-0565 swilliams@cvea.org	
Permit Contact:	Steve Williams, Power Generation Manager PO Box 927 Valdez, AK 99686 (907) 831-0565 swilliams@cvea.org	
Process Description:	SIC Code	4911- Electrical Services
	NAICS Code:	221112-Fossil Fuel Electric Power Generation

[18 AAC 50.040(j)(3) & 50.326(a)]
 [40 C.F.R. 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. The descriptions and ratings of these EUs are given for identification purposes only. Emission unit identification numbers (EU IDs) are shown in Table A¹.

Table A - Emissions Unit Inventory

EU ID	Emissions Unit Name	Emissions Unit Description	Fuel Type	Rating/Size	Installation or Construction Date
6	Engine/Generator Set	DeLaval Enterprise Model DSR 46	Diesel	2,620 kW	1976
7	Engine/Generator Set	DeLaval Enterprise Model DSR 46	Diesel	2,620 kW	1976
8	Engine/Generator Set	Caterpillar Model 3516B	Diesel	1,285 kW	1999
9	Engine/Generator Set	EMD Model 16-710G4D Engine	Diesel	2,865kW	2008

[18 AAC 50.326(a)]
[40 C.F.R. 71.5(c)(3)]

¹ EU ID 12 has been decommissioned and EU ID 14, 15 and 16 were added.

Section 3. State Requirements

Visible Emissions Standard

- 1. Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee must not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs *6 through 9* 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 C.F.R. 71.6(a)(1)]

- 1.1. For EU IDs *6 through 9* monitor, record, and report in accordance with Conditions 2 - 4.

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

Liquid Fuel-Burning Equipment

- 2. Visible Emissions Monitoring.** When required by Conditions 1.1 , or in the event of replacement, per 40 C.F.R. 51.166(b)(32), during the permit term, the Permittee must observe the exhaust of EU ID(s) *6 through 9* for visible emissions using the Method 9 Plan under Condition 2.2

- 2.1. The Permittee may, for each unit, elect to continue the visible emissions monitoring schedule specified in Conditions 2.2.b through 2.2.e that remains in effect from a previous permit.
 - 2.2. **Method 9 Plan.** For all observations in this plan, observe emissions unit exhaust, following 40 C.F.R. 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations.²

- a. First Method 9 Observation. Except as provided in Condition 2.1, observe the exhausts of EU IDs *6 through 9* according to the following criteria:
 - (i) Except as provided in Condition 2.2.a(ii), for any of EU IDs *6 through 9*, observe exhaust within six months after the effective date of this permit.
 - (ii) For any unit replaced, observe exhaust within 60 days of the newly installed emissions unit becoming fully operational.³ Except as provided in Condition 2.2.e, after the First Method 9 observation:
 - (A) For EU ID(s) *6 through 9*, continue with the monitoring schedule of the replaced emissions unit;

² Visible emissions observations are not required during emergency operations.

³ “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.

- b. Monthly Method 9 Observations. After the first Method 9 observation conducted under Condition 2.2.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 2.2.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 2.2.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 2.2.b, and continue monitoring in accordance with the Method 9 Plan.

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

3.1. For all Method 9 observations,

- a. The observer must 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 must be deemed to represent the average opacity of emissions for a 15-second period.
- b. To determine the six-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 must 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- and 18-consecutive-minute average opacities observed.

3.2. The records required by Conditions 3.1 may be kept in electronic format.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(ii)]

4. Visible Emissions Reporting. The Permittee must report as follows:

- 4.1. In the first operating report required in Condition 61 under this permit term, the Permittee must 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 61 for the period covered by the report

- a. 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) The number of days observations were made.
 - (B) The highest six-consecutive- and 18-consecutive-minute average opacities observed; and
 - (C) The dates when one or more observed six-consecutive-minute average opacities were greater than 20 percent.
- b. A summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done.

4.3. Report under Condition 60

- 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 C.F.R. 71.6(a)(3)(iii)]

Particulate Matter (PM) Emissions Standard

5. **Industrial Process and Fuel-Burning Equipment PM Emissions.** The Permittee must not cause or allow particulate matter emitted from EU IDs *6 through 9* listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.040(j)(4), 50.055(b)(1), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(1)]

- 5.1. For EU IDs *6 through 9*, monitor, record and report in accordance with Conditions 6 through 8.

[18 AAC 50.040(j)(4), 50.326(j)(3) & (4), & 50.346(c)]
[40 C.F.R. 71.6(a)(3) & (c)(6)]

Particulate Matter MR&R

Liquid Fuel-Burning Engines and Turbines

- 6. Particulate Matter Monitoring.** The Permittee must conduct source tests on EU IDs *6 through 9*, 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 C.F.R. 71.6(a)(3)(i)]

- 6.1. If the result of any Method 9 observation conducted under Condition 2.2 for any of EU ID(s) *6 through 9* is greater than the criteria of Condition 6.2.a or Condition 6.2.b; the Permittee must, 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 C.F.R. 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 2.2 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 PM 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 2.2) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 6.2.

7. Particulate Matter Recordkeeping. The Permittee must 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 C.F.R. 71.6(a)(3)(ii)]

8. Particulate Matter Reporting. The Permittee must 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 61, 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 60

- 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 C.F.R. 71.6(a)(3)(iii)]

Sulfur Compound Emissions Standard

- 9. Sulfur Compound Emissions.** The Permittee must not cause or allow sulfur compound emissions, expressed as SO₂, from EU ID(s) 6 through 9 listed in Table A 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 C.F.R. 71.6(a)(1)]

Sulfur Compound MR&R

Fuel Oil⁴ (EU IDs 6 through 9)

10. Sulfur Compound Monitoring and Recordkeeping. The Permittee must monitor and keep records, as follows:

10.1. Comply with either Condition 10.1.a or Condition 10.1.b:

- a. For each shipment of fuel:
 - (i) If the fuel grade requires a sulfur content 0.5 percent by weight ($\text{wt}\%S_{\text{fuel}}$) or less, keep receipts that specify fuel grade and amount; or
 - (ii) If the fuel grade does not require a sulfur content 0.5 $\text{wt}\%S_{\text{fuel}}$ or less, keep receipts that specify fuel grade and amount, and either
 - (A) Test the fuel for sulfur content; or
 - (B) Obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent; or
- b. Test the sulfur content of the fuel in each storage tank that supplies fuel to EU IDs 6 through 9 at least monthly.

10.2. Fuel testing under Condition 10.1.a or Condition 10.1.b must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

10.3. If a shipment of fuel contains greater than 0.75 $\text{wt}\%S_{\text{fuel}}$ or if the results of a fuel sulfur content test indicate that the fuel contains greater than 0.75 $\text{wt}\%S_{\text{fuel}}$, the Permittee must calculate SO_2 emissions in parts per million (ppm) using either the SO_2 material balance calculation in Section 12 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a)(3).

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(i) & (ii)]

11. Sulfur Compound Reporting. The Permittee must report as follows:

11.1. If SO_2 emissions calculated under Condition 10.3 exceed 500 ppm, the Permittee must report in accordance with Condition 60. When reporting under this condition, include the calculation under Condition 10.3.

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

11.2. The Permittee must include in the operating report required by Condition 61 for each month covered by the report:

- a. A list of the fuel grades received at the stationary source.
- b. For any fuel received with a fuel sulfur content greater than 0.5 wt% S_{fuel} , the fuel sulfur content of the shipment.
- c. The results of all fuel sulfur analyses conducted under Condition 10.1.a or Condition 10.1.b and documentation of the method(s) used to complete the analyses; and
- d. For any fuel received with a sulfur content greater than 0.75 wt% S_{fuel} , the calculated SO₂ emissions in ppm calculated under Condition 10.3.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 C.F.R. 71.6(a)(3)(iii)]

Preconstruction Permit ⁵ Requirements

Requirement to Protect Ambient Air Quality

12. Limit the Fuel oil sulfur content to no greater than 0.5 percent by weight.

[Condition 5, Minor Permit No. AQ0287MSS02, May 13,2014]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

12.1. Monitor, record and report the sulfur content of the fuel oil as described in Conditions 10.1, 10.2, 11.2.a and 11.2.b.

12.2. Report as excess emissions as described in permit Condition 60 whenever the fuel oil sulfur content exceeds the limit in Condition 12.

[Condition 5.1&5.2, Minor Permit No. AQ0287MSS02, May 13,2014]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)]

Owner Requested Limits to Avoid PSD Requirements

13. **PSD Avoidance Limits.** Limit NO_x emissions for EU IDs 6 through 9 listed in Table A to no greater than 374 TPY.

[Condition 4, Minor Permit No. AQ0287MSS02, May 13, 2014]
[18 AAC 50.040(j) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]

⁵ *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.

- 13.1. Continuously monitor the operation of EUs 6 through 9 using a kilowatt-hour (kWh) meter for each unit.
- 13.2. No later than the end of each calendar month, calculate the total NO_x emissions from EUs 6 through 9 for the previous month, based on the operation of each unit (kWh) during that month and the following emission factors.
 - a. EUs 6 through 8: 0.032 lb/kWh, and
 - b. EU 9: 0.0270 lb/kWh.

[Condition 4.2, Minor Permit No. AQ0287MSS02, May 13, 2014]

- 13.3. No later than the end of each calendar month, calculate the total NO_x emissions from EUs 6 through 9 for the 12-month rolling period ending with the previous month, based on the monthly emissions calculated under Condition 13.2.
- 13.4. Include the records and calculations required under Conditions 13.2 and 13.3 in the operating report required in Condition 61.
- 13.5. If the 12-month rolling total NO_x emissions in Condition 4.3 exceeds 374 tons, report as excess emissions as described in Condition 60.
- 13.6. If the 12 month rolling total NO_x emissions in Condition 13.3 exceeds 337 tons, then within 180 days of discovery, conduct source tests on EU ID 9 and any one of EU IDs 6 or 7 to verify their NO_x emission rates.

[Condition 4.3 - 4.6, Minor Permit No. AQ0287MSS02, May 13, 2014]

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

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

- a. Conduct the source tests at four loads in the operating range of the emission units, including the minimum and maximum operating loads of the emission units. Monitor and record the fuel consumption and average load during each test. List the average operating parameters for each run in the source test result.
- b. From each source test, determine the NO_x emission factor using exhaust properties determined by either Method 19 or Method 1-4, for each load. If using Method 19, then use the higher heating value throughout the analysis.
- c. Within 45 days of the source test conducted in Condition 13.6.a calculate the 12 month rolling NO_x emissions for the stationary source. For an emission unit, use the worst-case emission factor determined in the source test.
- d. Report the source test results and 12 month rolling NO_x emissions in accordance with Section 6 in the operating report required under Condition 61.

- e. After completing the NO_x emission source tests for the tested emission units, determine the stationary source potential-to-emit (PTE) by summing the PTE for each emission unit. Attach the PTE calculations and results to the first stationary source operating report due after completion of the NO_x emission source tests.
- f. If the PTE produced via Condition 13.6.e exceeds the limit in Condition 13, report as an excess emissions and permit deviation in accordance with Condition 60.

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(10) & (13)(iii)]

Insignificant Emissions Units

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

14.1. **Visible Emissions Standard:** The Permittee must 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)]

14.2. **Particulate Matter Standard:** The Permittee must 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)]

14.3. **Sulfur Compound Standard:** The Permittee must not cause or allow sulfur compound emissions, expressed as SO₂, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

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

- a. Submit the compliance certifications of Condition 62 based on reasonable inquiry.
- b. Comply with the requirements of Condition 43;
- c. Report in the operating report required by Condition 61 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; and

- d. No other monitoring, recordkeeping or reporting is required for insignificant emissions units to demonstrate compliance with the emissions standards under Conditions 14.1, 14.2, and 14.3.

[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(b)(4)]
[40 C.F.R. 71.6(a)(1) & (a)(3)]

Section 4. Federal Requirements

40 C.F.R. Part 60 New Source Performance Standards (NSPS)

New Source Performance Standards Subpart A – General Provisions

15. New Source Performance Standards Subpart A Notification. Unless exempted by a specific subpart, for any affected stationary source or existing stationary source regulated under NSPS requirements in 40 C.F.R. 60, the Permittee must furnish the Administrator⁶ 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 C.F.R. 60.7(a) & 60.15(d), Subpart A]

15.1. A notification of the date construction (or reconstruction as defined under 40 C.F.R. 60.15) of an affected stationary source is commenced postmarked no later than 30 days after such date. This requirement must not apply in the case of mass-produced facilities which are purchased in completed form.

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

15.2. A notification must include information outlined in Condition 15.2 (a)- (e) and beginning on February 26, 2025, submit the notification electronically according to Condition 15.3 of this section.

- a. Name and address of the owner or operator.
- b. The address of the affected source.
- c. Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement.
- d. Emission control equipment; and
- e. Fuel used.

15.3. The Permittee must submit notifications or reports to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>).

[40 C.F.R. 60.7(a)(3), Subpart A]
[40 C.F.R. 60.4214(a)(1)&(2), Subpart III]
[40 C.F.R. 60.4214(g), Subpart III]

⁶ The Department defines the “the Administrator” to mean “the EPA and the Department.”

New Source Performance Standards Recordkeeping Requirements

15.4. The Permittee must keep records of the information, Condition 15.4.a through 15.4.c of this section and submit it in accordance with Condition 15.3.

- a. All notifications submitted to comply with 40 C.F.R 60 Subpart III and all documentation supporting any notification.
- b. Maintenance conducted on the engine.
- c. If the stationary internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.

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

[40 C.F.R. 60.4214(a)(1)&(2), Subpart III]

[40 C.F.R. 60.4214(g), Subpart III]

15.5. A notification of any proposed replacement of components at an existing stationary source, 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 stationary source, postmarked as soon as practicable, but no less than 60 days before commencement of replacement, and including the following information:

[40 C.F.R. 60.15(d), Subpart A]

- a. The name and address of owner or operator,
- b. The location of the existing stationary source,
- c. A brief description of the existing stationary source 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 stationary source,
- f. The estimated life of the existing stationary source after the replacements, and
- g. A discussion of any economic or technical limitations the stationary source may have in complying with the applicable standards of performance after the proposed replacements.

16. NSPS Subpart A Concealment of Emissions. The Permittee must not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Conditions 17. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.

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

New Source Performance Standards Subpart III – Compression Ignition Internal Combustion Engines (CI ICE), EU ID 9

17. NSPS Subpart III Applicability and General Compliance Requirements. For EU ID 9 listed in Table A the Permittee must comply with the applicable requirements of NSPS subpart III. Stationary CI ICE located in remote areas of Alaska⁷ whose construction⁸ commence after July 11, 2005.

[[18 AAC 50.040(a)(2)(OO) & (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(1)]
[40 C.F.R. 60.4200(a)(2), (3) & (4)]

17.1. Except as permitted under Condition 17.5, the Permittee must operate and maintain EU ID 9 and control device according to the manufacturer's written instructions.

17.2. Change only those emission-related settings that are permitted by the manufacturer.

17.3. The Permittee must meet the requirements of Condition 19. In addition, the Permittee must operate and maintain EU ID 9 that achieves the emissions standards as required in Condition 19 over the entire life of the engine.

[40 C.F.R.60.4204(b) 60.4206, and 60.4211(a), Subpart III]

17.4. Meet the requirements of 40 C.F.R parts 1039, 1042 and/or 1068, as they apply to you.

[40 C.F.R 60.4211(a)(1) through (3), Subpart III]

17.5. If the Permittee does not install, configure, operate, and maintain EU 9 and associated control device(s) according to the manufacturer's emission-related written instructions, or if the Permittee changes emission-related settings in a way that is not permitted by the manufacturer, the Permittee must demonstrate compliance as follows:

⁷ Remote areas of Alaska, as defined in 40 C.F.R. 60.4219.

⁸ 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 C.F.R. 60.4200(a).

- a. The Permittee 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.
- b. The Permittee 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.
- c. The Permittee must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter, to demonstrate compliance with the applicable emission standards.

[40 C.F.R 71.6(a)(3)]
[40 C.F.R 60.4211(g), Subpart III]

17.6. Table 8 to NSPS Subpart III shows which parts of the General Provisions in 40 C.F.R 60.1 through 60.19 apply to you.

[40 C.F.R 71.6(a)(1)]
[40 C.F.R 60.4218, Subpart III]

18. New Source Performance Standards (NSPS) Subpart III Testing Requirements. The Permittee must conduct performance tests pursuant to NSPS Subpart III must do so according to 40 C.F.R 60.4212(a) through (e).

- a. EU 9 is subject to the performance test outlined in 40 C.F.R Part 1042, Subpart F.
- b. Beginning on February 26, 2025, within 60 days after the date of completing each performance test required by Condition 18.a, you must submit the results of the performance test as described in Condition 15.3.

[40 C.F.R 71.6(a)(3)]
[40 C.F.R 60.4212, Subpart III]

19. New Source Performance Standards Subpart III Emission Standards. The Permittee must comply with the following emission standards:

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

19.1. Exhaust emissions from EU ID 9 must comply with the values as follows:

- a. THC + NO_x: 7.8 g/kW-hr
- b. CO: 5 g/kW-hr

c. PM: 0.27 g/kW-hr

[40 C.F.R. 60.4202(d)(1), Subpart III]
[40 C.F.R. 1042 Appendix I, Table 2]

19.2. Owners and Operators who conduct performance tests in-use must meet the Not-to-exceed (NTE) Standard as indicated in 40 C.F.R 60.4212(c).

[40 C.F.R. 60.4212(c)& Subpart III]
[40 C.F.R. 1042 Appendix I, Table 2]

20. NSPS Subpart III Monitoring and Recordkeeping. The Permittee must comply with Conditions 15.4.a through 15.4.c and Conditions 17.1 through 17.4.

[18 AAC 50.040(a)(2)(OO) & (j)(4) & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(i) & (ii) & (c)(6)]

**40 C.F.R. Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP)
Subpart A – General Provisions A & Subpart M – Asbestos**

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

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

**40 C.F.R. Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAP)
NESHAP Subpart A – General Provisions**

22. **National Emission Standards Hazardous Air Pollutants Subpart A Applicability.** The Permittee, for stationary compression ignition internal combustion engines (CI ICE) EU IDs 6 through 8 must comply with the applicable requirements of 40 C.F.R. 63 Subpart A in accordance with the provisions for applicability of Subpart A in NESHAP Subpart ZZZZ, Table 8.

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

**National Emission Standards Hazardous Air Pollution Subpart ZZZZ – Stationary RICE,
EU IDs 6 through 8**

23. **NESHAP Subpart ZZZZ Applicability.** The Permittee must comply with applicable requirements for existing⁹ (EU 6 through 8) stationary reciprocating internal combustion engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions.

⁹ In accordance with 40 C.F.R. 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.

23.1. For EU IDs 6 through 8, existing stationary RICE units, the Permittee must at all times comply with Conditions 24 through 27.

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

[40 C.F.R. 63.6585(c), 63.6590(a)(1)(i), (a)(2)(iii), and 63.6605(a), Subpart ZZZZ]

24. NESHAP Subpart ZZZZ Good Air Pollutions Control Practice (GAPCP), Operation and Maintenance Requirements. The Permittee must comply with the following:

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

24.1. At all times, operate and maintain EU IDs 6 through 8, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of EU IDs 6 through 8.

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

24.2. The Permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to either:

- a. The manufacturer's emission-related written instructions for operation and maintenance; or
- b. A maintenance plan developed by the Permittee which must provide, to the extent practicable, for the maintenance and operation of the engine(s) in a manner consistent with good air pollution control practice for minimizing emissions.

[40 C.F.R. 63.6625(e)(4), 63.6640(a), Subpart ZZZZ]

24.3. 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 C.F.R. 63.6625(h) and Table 2d Item 1 , Subpart ZZZZ]

25. NESHAP Subpart ZZZZ Work and Management Practices Standards and Monitoring. For EU IDs 6 through 8, the Permittee must comply with the following work and management practices and monitoring requirements:

[18 AAC 50.040(c)(23) & (j)(4) and 50.326(j)]
[40 C.F.R. 71.6(a)(1) & (3)(i)]
[40 C.F.R. 63.6603(a) & (b)(1), 63.6640(a), and 63.6625(i), Subpart ZZZZ]
[Table 2d and Table 6, Subpart ZZZZ]

25.1. For EU IDs 6 through 8:

- a. Except during periods of startup, the Permittee must meet the following requirements:
- (i) Change oil and filter every 1,000 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, except as allowed by Condition 25.4;
 - (ii) Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; and
 - (iii) Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary.

[Table 2d (item 1 & Footnote 1), Subpart ZZZZ]

25.2. During periods of startup, the Permittee must comply with Condition 24.3.

[Table 2d , Subpart ZZZZ]

25.3. Demonstrate continuous compliance with the requirements in Condition 25.1 by complying with Condition 24.2.

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

25.4. The Permittee has the option to utilize an oil analysis program in order to extend the specified oil change requirements in Condition 25.1.a(i), as described below:

- a. The oil analysis must be performed at the same frequency specified for changing the oil and filter in Conditions 25.1.a(i).
- b. The analysis program must, at a minimum, analyze the following three parameters: Total Base Number (for CI engines), Total Acid Number (for SI engines), 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 the condemning limits in Conditions 25.4.b(i) through 25.4.b(iii) are not exceeded, the Permittee is not required to change the oil and filter.
- d. If any of the limits in Conditions 25.4.b(i) through 25.4.b(iii) is exceeded, the Permittee must change the oil and filter 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 Permittee must change the oil and filter 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 C.F.R. 63.6625(i) and Table 2d, Subpart ZZZZ]

26. NESHAP Subpart ZZZZ Recordkeeping Requirements. The Permittee must keep records, as follows:

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

26.1. If electing to operate and maintain EU IDs 6 through 8 according to a maintenance plan developed by the Permittee as allowed under Condition 24.2.b, keep records of the maintenance conducted on EU IDs 6 through 8 in order to demonstrate that the stationary RICE and after-treatment control device (if any) are operated and maintained according to the maintenance plan.

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

26.2. If electing to utilize the oil analysis program described in Condition 25.4, keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil and filter changes for the engine.

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

26.3. Keep records in a form suitable and readily available for expeditious review.

26.4. 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 C.F.R. 63.10(b)(1).

[40 C.F.R. 63.6660 & Table 8, Subpart ZZZZ]
[40 C.F.R. 63.10(b)(1), Subpart A]

27. NESHAP Subpart ZZZZ Reporting Requirements. The Permittee must report as follows:

[18 AAC 50.040(c)(23) & (j)(4) and 50.326(j)]
[40 C.F.R. 71.6(a)(3)(iii) & (c)(6)]

27.1. Include in the operating report required by Condition 61 a report of all deviations as defined in 40 C.F.R. 63.6675 and of each instance in which an applicable requirement in 40 C.F.R. 63, Subpart A (Table 8 to Subpart ZZZZ) was not met.

27.2. Notify the Department in accordance with Condition 60 if any of the requirements in Conditions 22 through 27 were not met.

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

40 C.F.R. Part 82 Protection of Stratospheric Ozone

- 28. Subpart F – Recycling and Emissions Reduction.** The Permittee must comply with the applicable standards for recycling and emission reduction of refrigerants set forth in 40 C.F.R. 82, Subpart F.

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

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

[18 AAC 50.040(d) & 50.326(j)]
[40 C.F.R. 82.174(b) through (d), Subpart G]

- 30. Subpart H – Halons Emissions Reduction.** The Permittee must comply with the applicable prohibitions set out in 40 C.F.R. 82.270 (Protection of Stratospheric Ozone Subpart H – Halon Emission Reduction).

[18 AAC 50.040(d) & 50.326(j)]
[40 C.F.R. 82.270(b) through (f), Subpart H]

General NSPS and NESHAP Applicability Determination Requirements

- 31.** The Permittee must determine rule applicability and designation of affected sources under National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories (40 C.F.R. 63) in accordance with the procedures described in 40 C.F.R. 63.1(b).

31.1. The Permittee must keep a record of a determination that the 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 C.F.R. 63, the Permittee must keep a record as specified in 40 C.F.R. 63.10(b)(3).

31.2. If an existing source becomes affected by an applicable subpart of 40 C.F.R. 63, the owner or operator must comply with such standard by the compliance date established by the Administrator in the applicable subpart, in accordance with 40 C.F.R. 63.6(c).

31.3. After the effective date of any relevant standard promulgated by the Administrator under this part, an owner or operator who constructs a new affected source that is not major-emitting or reconstructs an affected source that is not major-emitting that is subject to such standard, or reconstructs a source such that the source becomes an affected source subject to the standard, must notify the Administrator and the Department of the intended construction or reconstruction. The notification must be submitted in accordance with the procedures in 40 C.F.R. 63.9(b).

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]
[40 C.F.R. 71.6(a)(3)(ii)]
[40 C.F.R. 63.1(b), 63.1(c)(5), 63.5(b)(4), 63.6(c)(1), 63.9(b), & 63.10(b)(3), Subpart A]

32. 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 61 for the period covered by the report, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10. 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 reports submitted during the reporting period.

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

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

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

Section 5. General Conditions

Standard Terms and Conditions

- 34.** 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) and 50.345(a) & (e)]

- 35.** 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) and 50.345(a) & (f)]

- 36.** The permit does not convey any property rights of any sort, nor any exclusive privilege.

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

- 37. Administration Fees.** The Permittee must 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, and 50.403]
[AS 37.10.052(b) and AS 46.14.240]

- 38. Assessable Emissions.** For each period from July 1 through the following June 30, the Permittee must pay to the Department an annual emission fee based on the stationary source's assessable emissions, as determined by the Department under 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit. The quantity for which fees will be assessed is the lesser of the stationary source's:

38.1. Potential to emit of 565 TPY; or

38.2. 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]

- 39. Assessable Emission Estimates.** The Permittee must comply as follows:

- 39.1. 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 38.2. 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/>.
- 39.2. The Permittee must 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.
- 39.3. If the stationary source has not commenced construction or operation on or before March 31st, the Permittee may submit to the Department's Anchorage office a waiver letter certified under 18 AAC 50.205 that states the stationary source's actual annual emissions for the previous calendar year are zero TPY and provides estimates for when construction or operation will commence.
- 39.4. If no estimate or waiver letter 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 38.1.

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

- 40. Dilution.** The Permittee must not dilute emissions with air to comply with this permit. Monitoring must consist of an annual certification that the Permittee does not dilute emissions to comply with this permit.

[18 AAC 50.045(a)]

- 41. 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 must take reasonable precautions to prevent particulate matter from being emitted into the ambient air.

41.1. The Permittee must 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 41.1.a or to address the results of Department inspections that found potential problems; and
 - (ii) To prevent future dust problems.

41.2. The Permittee must report according to Condition 43.3.

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

42. Stack Injection. The Permittee must 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)]

43. 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), and 50.346(a)]
[40 C.F.R. 71.6(a)(3)]

43.1. Monitoring. The Permittee must 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 must investigate the complaint to identify emissions that the Permittee believes have caused or are causing a violation of Condition 43.
- b. The Permittee must 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 43; or
 - (ii) The Department notifies the Permittee that it has found a violation of Condition 43.

43.2. Recordkeeping. The Permittee must 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 43; and
- d. Any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

43.3. Reporting. The Permittee must report as follows:

- a. With each stationary source operating report under Condition 61, the Permittee must 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 must 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 must report any such emissions according to Condition 60.

44. 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 standard¹⁰ listed in Condition(s) 17-28 (refrigerants), the Permittee must

- 44.1. Take all reasonable steps to minimize levels of emissions that exceed the standard; and
- 44.2. Report in accordance with Condition 60.1.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 C.F.R. 71.6(c)(6)]

Open Burning Requirements

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

- 45.1. 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
- 45.2. Include this condition in the annual certification required under Condition 62.

[18 AAC 50.065, 50.040(j), and 50.326(j)]

¹⁰ 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 C.F.R. 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

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

Section 6. General Source Testing and Monitoring Requirements

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

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

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

[18 AAC 50.220(b)]

47.1. At a point or points that characterize the actual discharge into the ambient air;
and

47.2. 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.

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

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

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

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

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

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

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

48.4. 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 and 50.220(c)(1)(D)]

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

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

48.6. Source testing for emissions of PM₁₀ and PM_{2.5} must be conducted in accordance with the procedures specified in 40 C.F.R. 51, Appendix M, Methods 201 or 201A and 202.

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

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

[18 AAC 50.040(c)(32) & 50.220(c)(2)]
[40 C.F.R. 63, Appendix A, Method 301]

49. 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) and 50.990(102)]

50. Test Exemption. The Permittee is not required to comply with Conditions 52, 53 and 54 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.2).

[18 AAC 50.345(a)]

51. 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)]

52. Test Plans. Except as provided in Condition 50, before conducting any source tests, the Permittee must 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 must submit a complete plan within 60 days after receiving a request under Condition 46 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)]

53. Test Notification. Except as provided in Condition 50, at least 10 days before conducting a source test, the Permittee must give the Department written notice of the date and the time the source test will begin.

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

54. Test Reports. Except as provided in Condition 50, within 60 days after completing a source test, the Permittee must 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 must certify the results in the manner set out in Condition 57. 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)]

55. Particulate Matter Calculations. In source testing for compliance with the particulate matter standards in Conditions 5 and 14.2, 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

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

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

56.2. 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.
- g. Calibration and maintenance records, original strip chart or computer-based recordings for continuous monitoring instrumentation;

[18 AAC 50.040(a)(1) & (j)(4) and 50.326(j)]
[40 C.F.R. 60.7(f), Subpart A, 40 C.F.R. 71.6(a)(3)(ii)(A) & (B)]

Reporting Requirements

57. Certification. The Permittee must 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.

57.1. 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)]

58. Submittals. Unless otherwise directed by the Department or this permit, the Permittee must 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.

58.1. 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)]

59. Information Requests. The Permittee must 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 must furnish to the Department copies of records required to be kept by the permit. The Department may require the Permittee to furnish copies of those records directly to the Federal Administrator.

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

60. Excess Emissions and Permit Deviation Reports. The Permittee must report excess emissions and permit deviations as follows:

60.1. **Excess Emissions Reporting.** Except as provided in Condition 43, the Permittee must 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 60.1.d.

- d. Report all other excess emissions not described in Conditions 60.1.a, 60.1.b, and 60.1.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 61 for excess emissions that occurred during the period covered by the report, whichever is sooner.
- e. If requested by the Department, the Permittee must 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)]

60.2. 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 61 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)]

60.3. Reporting Instructions. When reporting either excess emissions or permit deviations, the Permittee must report using the Department’s online form for all such submittals. The form can be found at the Division of Air Quality’s Air Online Services (AOS) system webpage <http://dec.alaska.gov/applications/air/airtoolsweb> using the Permittee Portal option.

- a. Alternatively, upon written Department approval, the Permittee may submit the form contained in Section 13 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), and 50.270(a), (b), & (c)]

61. Operating Reports. During the life of this permit¹¹, the Permittee must submit to the Department an operating report in accordance with Conditions 57 and 58 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.

¹¹ *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.

- 61.1. 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.
- 61.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 61.1, the Permittee must identify
 - a. The date of the excess emissions or permit deviation;
 - b. The equipment involved;
 - c. The permit condition affected;
 - 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
- 61.3. When excess emissions or permit deviation reports have already been reported under Condition 60 during the period covered by the operating report, the Permittee must 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.
- 61.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.2.e, and 6.2, and which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee must 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.
- 61.5. **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 C.F.R. 71.6(a)(3)(iii)(A)]

62. **Annual Compliance Certification.** Each year by March 31, the Permittee must compile and submit to the Department an annual compliance certification report according to Condition 58.

62.1. 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.

62.2. **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.

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

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

63. Emission Inventory Reporting. The Permittee must submit to the Department reports of actual emissions for the previous calendar year, by emissions unit, of CO, NH₃, NO_x, PM₁₀, PM_{2.5}, SO₂, VOC, and lead (Pb) and lead compounds, as follows:

63.1. **Every-year inventory.** Each year by April 30, if the stationary source's potential to emit (PTE) for the previous calendar year equals or exceeds:

- a. 250 TPY of NH₃, PM₁₀, PM_{2.5} or VOC; or
- b. 2,500 TPY of CO, NO_x, or SO₂.

63.2. **Triennial inventory.** Every third year by April 30, if the stationary source's PTE for the previous calendar year does not meet any of the emission thresholds in Condition 63.1.

- a. For stationary sources located in Attainment and Unclassifiable Areas:
 - (i) 0.5 TPY of actual Pb, or
 - (ii) 1,000 TPY of CO; or
 - (iii) 100 TPY of SO₂, NH₃, PM₁₀, PM_{2.5}, NO_x or VOCs.

- b. For stationary sources located in Nonattainment Areas:
- (i) 0.5 TPY of actual Pb; or
 - (ii) 1,000 TPY of CO or, when located in a CO nonattainment area, 100 TPY of CO; or
 - (iii) 100 TPY of SO₂, NH₃, PM₁₀, PM_{2.5}, NO_x, or VOC; or as specified in Conditions 63.b.(iv) through 63.b.(viii)
 - (iv) 70 TPY of SO₂, NH₃, PM_{2.5}, NO_x, or VOC in PM_{2.5} serious nonattainment; or
 - (v) 70 TPY of PM₁₀ in PM₁₀ serious nonattainment areas; or
 - (vi) 50 TPY of NO_x or VOC in O₃ serious nonattainment areas; or
 - (vii) 25 TPY of NO_x or VOC in O₃ severe nonattainment areas; or
 - (viii) 10 TPY of NO_x or VOC O₃ extreme nonattainment areas.

63.3. For reporting under Condition 63.2, the Permittee must report the annual emissions and the required data elements under Condition 63.4 every third year for the previous calendar year as scheduled by the EPA.¹²

63.4. For each emissions unit and the stationary source, include in the report the required data elements¹³ 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>.

63.5. Submit the report in accordance with the submission instructions on the Department's Standard Permit Conditions webpage at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-xv-and-xvi-submission-instructions/>.

[18 AAC 50.040(j)(4), 50.200, 50.275, 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]

¹² The calendar years for which reports are required are based on the triennial reporting schedule in 40 C.F.R. 51.30(b)(1), which requires states to report emissions data to the EPA for inventory years 2011, 2014, 2017, 2020, and every 3rd year thereafter. Therefore, the Department requires Permittees to report emissions data for the same inventory years by April 30 of the following year (e.g., triennial emission inventory report for 2020 is due April 30, 2021, triennial emission inventory report for 2023 is due April 30, 2024, etc.).

¹³ The required data elements to be reported to the EPA are outlined in 40 C.F.R. 51.15 and Tables 2a and 2b to Appendix A of 40 C.F.R. 51 Subpart A.

64. Consistency of Reporting Methodologies. Regardless of permit classification, as of September 7, 2022, all stationary sources operating in the state must 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 C.F.R. Part 51, Subpart A.

64.1. For the purposes of reporting actual or assessable emissions required under Condition 63 and Condition 38.2, the Permittee must 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]

65. NSPS and NESHAP Reports and Waivers. The Permittee must comply with the following:

65.1. **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 61 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.

65.2. **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 must keep a copy of each U.S. EPA-issued monitoring waiver or custom monitoring schedule with the permit.

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

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

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

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

Section 8. Permit Changes and Renewal

66. Permit Applications and Submittals. The Permittee must comply with the following requirements for submitting application information to the EPA:

- 66.1. The Permittee must 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;
- 66.2. The information must be submitted, as follows:
 - a. To the EPA's CDX and CEDRI online reporting system accessible via cdx.epa.gov, or
 - b. As an email attachment to the EPA's air permits mailbox (R10_Air_Permits@epa.gov), or
 - c. As a hardcopy by mail (only if absolutely necessary) to the Part 70 Operating Permit Program, US EPA Region 10, Air Permits and Toxics Branch, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188, listed in order of EPA's preference;
- 66.3. To the extent practicable, the Permittee must 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
- 66.4. The Permittee must maintain records as necessary to demonstrate compliance with this condition.

[18 AAC 50.040(j)(7), 50.326(a) & (j)(3), and 50.346(b)(7)]
[40 C.F.R. 71.10(d)(1)]

67. Emissions Trading. No permit revision must 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) and 50.326(j)(4)]
[40 C.F.R. 71.6(a)(8)]

68. Off Permit Changes. The Permittee may make changes that are not addressed or prohibited by this permit other than those subject to the requirements of 40 C.F.R. 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:

- 68.1. Each such change must meet all applicable requirements and must not violate any existing permit term or Condition.
- 68.2. 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 must 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;

68.3. The change must not qualify for the shield under 40 C.F.R. 71.6(f); and

68.4. The Permittee must 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) and 50.326(j)(4)]
[40 C.F.R. 71.6(a)(12)]

69. Operational Flexibility. The Permittee may make CAA Section 502(b)(10)¹⁴ 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).

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

69.2. For each such change, the notification required by Condition 69.1 must 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.

69.3. The permit shield described in 40 C.F.R. 71.6(f) must not apply to any change made pursuant to Condition 69.

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

70. Permit Renewal. To renew this permit, the Permittee must submit to the Department¹⁵ 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>**, and according to the submittal instructions in Conditions 58 and 66. The renewal application must be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the stationary source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 C.F.R. 71.7(b) and 71.5(a)(1)(iii).

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

¹⁴ As defined in 40 C.F.R. 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.

¹⁵ Submit permit applications to the Department's Permit Intake Clerk email address at dec.aq.airreports@alaska.gov. If email is unavailable, submit one certified paper copy 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

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

71.1. Included and specifically identified in the permit; or

71.2. Determined in writing in the permit to be inapplicable.

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

72. 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

72.1. An enforcement action.

72.2. Permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or

72.3. Denial of an operating permit renewal application.

[18 AAC 50.040(j), 50.326(j) & 50.345(a) & (c)]

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

[18 AAC 50.040(j)(3) & (4) and 50.326(j)]
[40 C.F.R. 71.6(c)(3) and 71.5(c)(8)(iii)(A)]

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

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

75. The Permittee must 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

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

75.2. Have access to and copy any records required by the permit;

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

75.4. Sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

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

Compliance Schedule

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

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

77. Nothing in this permit must alter or affect the following:

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

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

78. Table B 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 B becomes applicable during the permit term, the Permittee must 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) and 50.326(j)]
[40 C.F.R. 71.6(f)(1)(ii)]

Table B - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
6 through 8	Numerical CO emissions Limitations Specified in Table 2d of 40 C.F.R 63 Subpart ZZZZ	Engines are located at an area source of HAPs that meets the criteria listed in 40 C.F.R 63.6603(b)(2).

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 stationary source 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 stationary source) 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
			Min				
City	State	Zip	1				
Phone # (Key Contact)	Stationary Source ID Number		2				
Process Equipment	Operating Mode		3				
Control Equipment	Operating Mode		4				
Describe Emission Point/Location			5				
Height above ground level	Height relative to observer	Cinometer Reading	6				
Distance From Observer	Direction From Observer		7				
Start	End	Start	8				
Describe Emissions & Color			9				
Start	End		10				
Visible Water Vapor Present? If yes, determine approximate distance from the stack exit to where the plume was read			11				
No	Yes		12				
Point in Plume at Which Opacity Was Determined			13				
Describe Plume Background		Background Color	14				
Start	Start		15				
End	End		16				
Sky Conditions:			17				
Start	End		18				
Wind Speed	Wind Direction From		19				
Start	End	Start	20				
End		End	21				
Ambient Temperature	Wet Bulb Temp	RH percent	22				
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read 2 Wind Direction From 3 Observer Location 4 Sun Location 5 North Arrow 6 Other Stacks			23				
			24				
			25				
			26				
			27				
			28				
			29				
			30				
Additional Information:			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			Certifying Organization:				Date
Date			Certified By:				Date
Data Reduction:							
Duration of Observation Period (minutes):			Duration Required by Permit (minutes):				
Number of Observations:			Highest Six-Minute Average Opacity (%):				
Number of Observations exceeding 20%:							
In compliance with six-minute opacity limit? (Yes or No)			Highest 18-Consecutive -Minute Average Opacity %(engines and turbines only)				
Average Opacity Summary:							
Set Number	Time		Opacity		Comments		
	Start	End	Sum	Average			

Section 12. SO₂ Material Balance Calculation

If a fuel shipment contains more than 0.75 percent sulfur by weight, calculate the three-hour exhaust concentration of SO₂ using the following equations:

A. = 31,200 x (wt%**S**_{fuel}) = 31,200 x _____ = _____

B. = 0.148 x (wt%**S**_{fuel}) = 0.148 x _____ = _____

C. = 0.396 x (wt%**C**_{fuel}) = 0.396 x _____ = _____

D. = 0.933 x (wt%**H**_{fuel}) = 0.933 x _____ = _____

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

F. = 20.9 - (vol%**O**_{2, exhaust}) = 20.9 - _____ = _____

G. = (vol%**O**_{2, exhaust}) ÷ F = _____ ÷ _____ = _____

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

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

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

The wt%**S**_{fuel}, wt%**C**_{fuel}, and wt%**H**_{fuel} are equal to the weight percents of sulfur, carbon, and hydrogen, respectively, in the fuel. These percentages should total 100%.

The fuel weight percent of sulfur (wt%**S**_{fuel}) is obtained pursuant to Condition 10.1.a(ii) or Condition 10.1.b. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (vol%**O**_{2, exhaust}) is obtained from oxygen meters, manufacturer’s data, or from the most recent analysis under 40 C.F.R. 60, Appendix A-2, Method 3, adopted by reference in 18 AAC 50.040(a), at the same emissions unit load used in the calculation.

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

[18 AAC 50.346(c)]

Section 13. Notification Form¹⁶

Glennallen Diesel Plant

Stationary Source Name

Copper Valley Electric Association Inc

Company Name

AQ0287TVP06

Air Quality Permit Number.

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 COBC¹⁷, CO¹⁸, or Settlement Agreement - Complete Section 2 and Certify

¹⁶ Revised as of July 22, 2020.

¹⁷ Compliance Order By Consent

¹⁸ 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 /Limit Exceeded /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 57.)*

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

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

[18 AAC 50.346(b)(3)]