

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0098TVP04

Issue Date: PUBLIC COMMENT - February 3, 2022

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, **Alyeska Pipeline Service Company**, for the operation of the **Pump Station 5 (PS-5)**.

This permit satisfies the obligation of the owner and operator to obtain an operating permit as set out in AS 46.14.130(b).

As set out in AS 46.14.120(c), the Permittee shall comply with the terms and conditions of this operating permit.

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

Upon effective date of this permit, Operating Permit No. AQ0098TVP03, including all revisions, 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).....	4
	Particulate Matter (PM) Emissions Standard.....	7
	PM MR&R.....	7
	Sulfur Compound Emissions Standard	10
	Sulfur Compound MR&R.....	11
	Preconstruction Permit Requirements.....	12
	Insignificant Emissions Units	16
Section 4.	Federal Requirements	18
	40 CFR Part 60 New Source Performance Standards.....	18
	Subpart A	18
	Subpart III.....	19
	40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants	21
	Subparts A & M.....	21
	40 CFR Part 62 Approval and Promulgation of State Plans for Designated Facilities and Pollutants.....	21
	Subpart HHH	21
	Subpart III	22
	40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants	22
	Subpart A	22
	Subpart ZZZZ	23
	Subpart JJJJJ.....	27
	40 CFR Part 82 Protection of Stratospheric Ozone	31
	Subparts F, G, & H	31
	NESHAP Applicability Determination Requirements.....	32
Section 5.	General Conditions	33
	Standard Terms and Conditions.....	33

	Open Burning Requirements.....	36
Section 6.	General Source Testing and Monitoring Requirements.....	38
Section 7.	General Recordkeeping and Reporting Requirements.....	41
	Recordkeeping Requirements	41
	Reporting Requirements	41
Section 8.	Permit Changes and Renewal	47
Section 9.	Compliance Requirements	49
	General Compliance Requirements	49
Section 10.	Permit As Shield from Inapplicable Requirements	51
Section 11.	HAP Content of Crude Oil Storage Tank Vapors.....	52
Section 12.	Visible Emissions Observation Form	58
Section 13.	SO ₂ Material Balance Calculation	60
Section 14.	ADEC Notification Form.....	61

Abbreviations and Acronyms

AAC.....	Alaska Administrative Code	NAICS.....	North American Industrial Classification System
ADEC	Alaska Department of Environmental Conservation	NESHAP	National Emission Standards for Hazardous Air Pollutants [as contained in 40 CFR 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 CFR 60]
bHp.....	brake horsepower	O ₂	oxygen
CAA or The Act	Clean Air Act	PAL	plantwide applicability limitation
CDX.....	Central Data Exchange	Pb	lead
CEDRI	Compliance and Emissions Data Reporting Interface	PM _{2.5}	particulate matter less than or equal to a nominal 2.5 microns in diameter
CFR	Code of Federal Regulations	PM ₁₀	particulate matter less than or equal to a nominal 10 microns in diameter
CI.....	compression ignition	ppm	parts per million
CO	carbon monoxide	ppmv, ppmvd	parts per million by volume on a dry basis
dscf.....	dry standard cubic foot	psia	pounds per square inch (absolute)
EPA	US Environmental Protection Agency	PSD	prevention of significant deterioration
EU.....	emissions unit	PTE	potential to emit
gph.....	gallons per hour	RICE	reciprocating internal combustion engine
gr/dscf.....	grain per dry standard cubic foot (1 pound = 7000 grains)	SIC.	Standard Industrial Classification
HAPs	hazardous air pollutants [as defined in AS 46.14.990]	SIP.....	State Implementation Plan
hp.....	horsepower	SO ₂	sulfur dioxide
ICE.....	internal combustion engine	tph	tons per hour
ID.....	emissions unit identification number	tpy	tons per year
kPa.....	kiloPascals	VOC	volatile organic compound [as defined in 40 CFR 51.100(s)]
kW	kilowatts	VOL	volatile organic liquid [as defined in 40 CFR 60.111b, Subpart Kb]
LAER.....	lowest achievable emission rate	vol%	volume percent
MACT	maximum achievable control technology [as defined in 40 CFR 63]	wt%	weight percent
MMBtu/hr.....	million British thermal units per hour		
MMscf.....	million standard cubic feet		
MR&R	monitoring, recordkeeping, and reporting		

Section 1. Stationary Source Information

Identification

Permittee:	Alyeska Pipeline Service Company P.O. Box 196660 Anchorage, AK 99519-6660	
Stationary Source Name:	Pump Station 5 (PS-5)	
Location:	66° 48' 47" North; 150° 39' 43" West	
Physical Address:	West Sections 18 and 19, T23N, R14W Fairbanks Meridian	
Owners:	Harvest Alaska, LLC ExxonMobil Pipeline Company ConocoPhillips Transportation (Alaska) Inc.	
Operator:	Alyeska Pipeline Service Company P.O. Box 196660 Anchorage, AK 99519-6660	
Permittee's Responsible Official:	Hillary Schaefer, Pipeline Director P.O. Box 196660 Anchorage, AK 99519-6660	
Designated Agent:	CT Corporation System 9360 Glacier Highway, Suite 202 Juneau, AK 99801	
Stationary Source and Building Contact:	Edward.Kennedy/Geneva Walters, Supervisor PS-5 and PS-7 P.O. Box 196660 Anchorage, AK 99519-6660 (907) 787-4502 edward.kennedy@alyeska-pipeline.com ; geneva.walters@alyeska-pipeline.com	
Fee Contact:	Cindy Keuler, Environmental Program Coordinator P.O. Box 196660, MS 507 Anchorage, AK 99519-6660 (907) 787-8975 cindy.keuler@alyeska-pipeline.com	
Permit Contact:	Don Mark Anthony/Air Quality SME P.O. Box 196660, MS 507 Anchorage, AK 99519-6660 (907) 787-8568 markanthonydt@alyeska-pipeline.com	
Process Description:	SIC Code	4612 - Crude Oil Pipelines
	NAICS Code:	4861 - Pipeline Transportation of Crude Oil

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

Section 2. Emissions Unit Inventory and Description

Emissions units listed in Table A have specific monitoring, recordkeeping, or reporting conditions in this permit. Except as noted elsewhere in the permit, emissions unit descriptions and ratings are given for identification purposes only.

Table A - Emissions Unit Inventory

EU ID	Tag Number	Emissions Unit Description	Fuel Type	Rating/Size	Installation or Construction Date
1	35-G-4AT	Solar Turbine Electric Generator PK Model #GSE-1000	Diesel	12.6 MMBtu/hr	Pre-1977
4	35-G-1AT	Garret Turbine Generator Model #831-800	Diesel	510 kW	Pre-1977
5	35-G-1BT	Garret Turbine Generator Model #831-800	Diesel	510 kW	Pre-1977
6	35-G-2AT	Garret Turbine Generator Model #831-800	Diesel	510 kW	Pre-1977
7	35-H-1A	Eclipse Therminol Heater 1000-5 HCLT Design	Diesel	20.6 MMBtu/hr	Pre-1977
8	35-H-1B	Eclipse Therminol Heater 1000-5 HCLT Design	Diesel	20.6 MMBtu/hr	Pre-1977
9	N/A	Burnham PF-512 Boiler	Diesel	2.37 MMBtu/hr	Pre-1977
10	N/A	Burnham PF-512 Boiler	Diesel	2.37 MMBtu/hr	Pre-1977
11	35-IN-1	Therm-Tec Solid Waste Incinerator Model #HU-300	Non-Hazardous Waste	300 lb/hr	Pre-1977
14	N/A	Diesel Generator, Caterpillar C-18	Diesel	455 kW	2019 ¹
15	N/A	Diesel Generator, Caterpillar C-18	Diesel	455 kW	2019 ¹
16	N/A	Diesel Generator, Caterpillar C-18	Diesel	455 kW	2019 ¹
17	N/A	Diesel Generator, Caterpillar C-18	Diesel	455 kW	2019 ¹
18	35-GEN-4605R	Emergency Generator, John Deere 4045TF150	Diesel	110 hp	2005
20	TK-150	Breakout Tank 150	N/A	150,000 bbl	Pre-1977
21	35-FP-1	Cummins Firewater Pump Engine	Diesel	170 hp	Pre-1977
22	ACPA-1	Cummins 6CTAA8.3-P215	Diesel	215 hp	2017
23	ACPA-2	Cummins 6CTAA8.3-P215	Diesel	215 hp	2017

Table Notes:

¹ Construction date. Unit has not yet been installed.

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

Section 3. State Requirements

Visible Emissions Standard

1. **Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1, 4 through 10, 14 through 18, and 21 through 23 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

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

- 1.1. For EU IDs 1 and 4 through 7, monitor, record, and report in accordance with Conditions 3 through 5.
- 1.2. For each of EU IDs 8, 9, 10, 14 through 18, and 21 through 23, as long as actual emissions from the emissions unit are less than the significant emissions thresholds listed in 18 AAC 50.326(e) during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 65 with the visible emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 64 if any of EU IDs 8, 9, 10, 14 through 18, and 21 through 23 reaches any of the significant emissions thresholds listed in 18 AAC 50.326(e) and monitor, record, and report in accordance with Conditions 3 through 5 for the remainder of the permit term for that emissions unit.

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

2. **Incinerator Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, through the exhaust effluent of the incinerator, EU ID 11, to reduce visibility by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.040(j)(4), 50.050(a), & 50.326(j)]
[40 CFR 71.6(a)(1)]

- 2.1. Observe EU ID 11 emissions for 18 consecutive minutes to obtain a minimum of 72 observations in accordance with Method 9 of 40 CFR 60, Appendix A, at least once every 12 calendar months EU ID 11 operates.
- 2.2. Record and report in accordance with Conditions 4.1.a through 5.3.a.
- 2.3. If any monitoring under Condition 2.1 was not performed, report under Condition 63 within three days of the date the monitoring was required.

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

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

Liquid Fuel-Burning Equipment

- 3. Visible Emissions Monitoring.** When required by any of Conditions 1.1 and 1.2, or in the event of replacement¹ during the permit term, the Permittee shall observe the exhaust of EU IDs 1, 4 through 10, 14 through 18, and 21 through 23 for visible emissions using the Method 9 Plan under Condition 3.2.
- 3.1. The Permittee may for each unit elect to continue the visible emissions monitoring schedule specified in Conditions 3.2.b through 3.2.e that remains in effect from a previous permit.
- 3.2. **Method 9 Plan.** For all observations in this plan, observe emissions unit exhaust, following 40 CFR 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations.²
- a. First Method 9 Observation. Except as provided in Condition 3.1, observe the exhaust of EU IDs 1, 4 through 10, 14 through 18, and 21 through 23 according to the following criteria:
- (i) Except as provided in Condition 3.2.a(ii), for any of EU IDs 1 and 4 through 7, 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 3.2.e, after the first Method 9 observation:
- (A) For EU IDs 1 and 4 through 7, continue with the monitoring schedule of the replaced emissions unit; and
- (B) For EU IDs 8, 9, 10, 14 through 18, and 21 through 23 comply with Condition 1.2.
- (iii) For each of EU IDs 8, 9, 10, 14 through 18, and 21 through 23, observe the exhaust of the emissions unit within 30 days after the end of the calendar month during which monitoring was triggered under Condition 1.2; or for an emissions unit with intermittent operations, within the first 30 days during the unit's next scheduled operation.
- b. Monthly Method 9 Observations. After the first Method 9 observation conducted under Condition 3.2.a, perform observations at least once in each calendar month that the emissions unit operates.

¹ "Replacement," as defined in 40 CFR 51.166(b)(32).

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.

- c. Semiannual Method 9 Observations. After at least three monthly observations under Condition 3.2.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 3.2.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 3.2.b, and continue monitoring in accordance with the Method 9 Plan.

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

- 4.1. For all Method 9 observations,
 - a. the observer shall record the following:
 - (i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 12;
 - (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 12, and
 - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
- b. To determine the six-consecutive-minute average opacity,
- (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
 - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
 - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; and
 - (iv) record the average opacity on the sheet.
- c. Calculate and record the highest six-consecutive and 18-consecutive-minute average opacities observed.
- 4.2. The records required by Condition 4.1 may be kept in electronic format.

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

5. Visible Emissions Reporting. The Permittee shall report as follows:

- 5.1. In the first operating report required in Condition 64 under this permit term, the Permittee shall state the intention to either continue the visible emissions monitoring schedule in effect from the previous permit or reset the visible emissions monitoring schedule.
- 5.2. Include in each operating report required under Condition 64 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) number of days observations were made;
 - (B) highest six-consecutive- and 18-consecutive-minute average opacities observed; and
 - (C) dates when one or more observed six-consecutive-minute average opacities were greater than 20 percent;

- b. a summary of any monitoring or recordkeeping required under Conditions 3 and 4 that was not done.
- 5.3. Report under Condition 63:
- a. the results of Method 9 observations that exceed 20 percent average opacity for any six-consecutive-minute period; and
 - b. if any monitoring under Condition 3 was not performed when required, report within three days of the date the monitoring was required.

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

Particulate Matter (PM) Emissions Standard

- 6. Industrial Process and Fuel-Burning Equipment PM Emissions.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 1, 4 through 10, 14 through 18, and 21 through 23 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

- 6.1. For EU IDs 1 and 4 through 7, monitor, record and report in accordance with Conditions 7 through 12.
- 6.2. For each of EU IDs 8, 9, 10, 14 through 18, and 21 through 23, as long as actual emissions from the emissions unit are less than the significant emissions thresholds listed in 18 AAC 50.326(e) during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 65 for the particulate matter emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 64 if any of EU IDs 8, 9, 10, 14 through 18, and 21 through 23 reaches any of the significant emissions thresholds and monitor, record and report in accordance with Conditions 7 through 12 for the remainder of the permit term for that emissions unit.

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

PM MR&R

Liquid Fuel-Burning Engines and Turbines

- 7. PM Monitoring.** The Permittee shall conduct source tests on EU IDs 1, 4 through 6, 14 through 18, and 21 through 23 to determine the concentration of PM in the exhaust of each emissions unit as follows:
- 7.1. If the result of any Method 9 observation conducted under Condition 3.2 for any of EU IDs 1, 4 through 6, 14 through 18, and 21 through 23 is greater than the criteria of Condition 7.2.a or Condition 7.2.b, the Permittee shall, within six months of that Method 9 observation, either:

- a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 CFR 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than the criteria of Condition 7.2; or
 - b. except as exempted in Condition 7.4, conduct a PM source test according to requirements set out in Section 6.
- 7.2. Take corrective action or conduct a PM source test, in accordance with Condition 7.1, if any Method 9 observation under Condition 3.2 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.
- 7.3. During each one-hour particulate matter source test run under Condition 7.1.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.
- 7.4. The PM source test requirements in Condition 7.1.b are waived for an emissions unit if
- a. a source test on that unit has shown compliance with the PM standard during this permit term; or
 - b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations (as described in Condition 3.2) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 7.2.

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

8. PM Recordkeeping. The Permittee shall comply with the following:

- 8.1. Within 30 calendar days of startup, the Permittee shall record the exhaust stack diameters of EU IDs 14 through 17.
- 8.2. Within 30 calendar days of the effective date of this permit, the Permittee shall record the exhaust stack diameters of EU IDs 18, 22, and 23.
- 8.3. Keep records of the results of any source test and visible emissions observations conducted under Condition 7.

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

9. PM Reporting. The Permittee shall report as follows:

- 9.1. Notify the Department of any Method 9 observation results that are greater than the threshold of either Condition 7.2.a or Condition 7.2.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 7.2.
- 9.2. In each operating report under Condition 64, include:
 - a. a summary of the results of any PM source test and visible emissions observations conducted under Condition 7; and
 - b. copies of any visible emissions observation results greater than the thresholds of Condition 7.2, if they were not already submitted.
- 9.3. Report the stack diameters of EU IDs 14 through 18, 22, and 23 in the next operating report under Condition 64 following the applicable deadline in Condition 8.1 or 8.2 for collecting the stack diameter records.
- 9.4. Report in accordance with Condition 63:
 - a. anytime the results of a PM source test exceed the PM emissions standard in Condition 6; or
 - b. if the requirements under Condition 7.1 were triggered and the Permittee did not comply on time with either Condition 7.1.a or 7.1.b. Report the deviation within 24 hours of the date compliance with Condition 7.1 was required.

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

Liquid Fuel-Burning Boilers and Heaters

10. PM Monitoring. The Permittee shall conduct source tests on EU IDs 7 through 10 to determine the concentration of PM in the exhaust of each emissions unit as follows:

- 10.1. If the result of any Method 9 observation conducted under Condition 3.2 for any of EU IDs 7 through 10 results in an 18-minute average opacity greater than 20 percent opacity, the Permittee shall, within six months of that Method 9 observation, either:
 - a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 CFR 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than an 18-minute average opacity of 20 percent; or
 - b. except as exempted under Condition 10.3, conduct a PM source test according to the requirements in Section 6.

- 10.2. During each one-hour PM source test run under Condition 10.1, 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.
- 10.3. The PM source test requirement in Condition 10.1 is waived for an emissions unit if:
 - a. a source test on that unit has shown compliance with the PM standard during the 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 3.2) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 10.1.

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

11. **PM Recordkeeping.** The Permittee shall keep records of the results of any source test and visible emissions observations conducted under Condition 10.

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

12. **PM Reporting.** The Permittee shall report as follows:

- 12.1. Notify the Department of any Method 9 observation results that are greater than the threshold of Condition 10.1 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 the threshold in Condition 10.1.
- 12.2. In each operating report required by Condition 64, include:
 - a. a summary of the results of any source test and visible emissions observations conducted under Condition 10; and
 - b. copies of any visible emissions observation results greater than the threshold in Condition 10.1, if they were not already submitted.
- 12.3. Report in accordance with Condition 63 any time the results of a source test exceed the PM emission standard in Condition 6.

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

Sulfur Compound Emissions Standard

13. **Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from EU IDs 1, 4 through 10, 14 through 18, and 21 through 23 to exceed 500 ppm averaged over three hours.

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

Sulfur Compound MR&R

Fuel Oil⁴ (EU IDs 1, 4 through 10, 14 through 18, and 21 through 23)

14. Sulfur Compound Emissions Monitoring and Recordkeeping. The Permittee shall monitor and keep records, as follows:

- 14.1. Comply with either Condition 14.1.a or Condition 14.1.b:
- a. For each shipment of fuel:
 - (i) If the fuel grade requires a sulfur content 0.5 percent by weight (wt% S_{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 wt% S_{fuel} or less, keep receipts that specify fuel grade and amount, and
 - (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 1, 4 through 10, 14 through 18, and 21 through 23 at least monthly.
- 14.2. Fuel testing under Condition 14.1.a or Condition 14.1.b must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).
- 14.3. If a shipment of fuel contains greater than 0.75 wt% S_{fuel} or if the results of a fuel sulfur content test indicate that the fuel contains greater than 0.75 wt% S_{fuel} , the Permittee shall calculate SO₂ emissions in parts per million (ppm) using either the SO₂ material balance calculation in Section 13 or Method 19 of 40 CFR 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 CFR 71.6(a)(3)(i) & (ii)]

15. Sulfur Compound Emissions Reporting. The Permittee shall report as follows:

- 15.1. If SO₂ emissions calculated under Condition 14.3 exceed 500 ppm, the Permittee shall report in accordance with Condition 63. When reporting under this condition, include the calculation under Condition 14.3.
- 15.2. The Permittee shall include in the operating report required by Condition 64 for each month covered by the report:
- a. a list of the fuel grades received at the stationary source;

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 CFR 60.41b.

- 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 14.1.a or Condition 14.1.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 SO_2 emissions in ppm calculated under Condition 14.3.

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

Preconstruction Permit ⁵ Requirements

- 16. Limits to Avoid HAP-Major Classification at Pump Station 5.** The Permittee shall limit the hazardous air pollutant (HAP) emissions from EU ID 20 to no more than 8.1 tons per 12-month rolling period for any individual HAP and 18.5 tons per 12-month rolling period for the aggregate total of HAPs.

[Condition 1, Construction Permit 098CP01, 3/9/2005]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

- 16.1. **Monitoring.** The Permittee shall monitor compliance with Condition 16 as follows:

[Condition 2, Construction Permit 098CP01, 3/9/2005]
[40 CFR 71.6(a)(3)(i) & (ii)]

- a. Sample the Pump Station 1 discharge crude stream once every twelve calendar months.
[Conditions 2.1 & 2.1c, Construction Permit 098CP01, 3/9/2005]
- b. Determine the amounts of 1,3 butadiene, N-hexane, benzene, 2,2,4 trimethylpentane, toluene, ethyl benzene, xylenes, isopropyl benzene, and naphthalene. The Permittee shall use ASTM method D-5134M.
- c. Monitor and record tank level changes at least once per hour. Monitor the total volume of crude oil routed to EU ID 20 using tank level change indicators. Calculate the monthly total volume of crude oil routed to EU ID 20.
- d. For any period during which crude oil flow data is unavailable under Condition 16.1.c, the Permittee shall estimate the flow rate of crude oil to EU ID 20 using a crude oil flow rate of 2,350,000 barrels per year (bbl/yr), prorated over the time period during which no data is available.

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.

- e. Calculate and record the 12-month rolling total HAP emissions from EU ID 20 on a monthly basis from the most recent crude composition analysis in Conditions 16.1.b and using the volume of crude oil routed to EU ID 20 for the month determined from Conditions 16.1.c or 16.1.d.
[Conditions 2.2 through 2.5, Construction Permit 098CP01, 3/9/2005]
- (i) Calculations shall be based on the methodology presented in the Permittee's October 14, 2003 permit application as described in Section 11. The permittee may do the calculations semi-annually at the time the operating reports are due.
- (ii) If calculated HAP emissions exceed 50% of the limits under Condition 16, calculate and record the twelve month rolling total HAP emissions on a monthly basis.
- (iii) Once the HAP emissions fall below 50%, the Permittee may calculate according to Condition 16.1.e.
[Conditions 2.5a through 2.5c, Construction Permit 098CP01, 3/9/2005]
- f. If the calculated HAP emissions under Condition 16.1.e exceed 90% of either of the limits in Condition 16,
[Condition 2.6, Construction Permit 098CP01, 3/9/2005]
- (i) Within 4 months of discovery, initiate and complete a validation demonstration of Condition 16.1.e methodology by comparing HAP emissions derived using Gas Producers Association Method 2286 on EU ID 20 headspace along with sampling of Pump Station 1 crude discharge stream;
- (ii) The EU ID 20 headspace sampling shall consist of four samples. The samples are to be taken consecutively and, if possible taken all on the same day; and
- (iii) The Pump Station 1 crude discharge crude oil sampling shall consist of at least two samples and be carried out within 15 days of the headspace analysis;
- (iv) Using the average results of the sampling conducted under Condition 16.1.f(ii) and 16.1.f(iii), the Permittee shall compare the calculated HAP emissions using crude oil discharge analysis to those using the in-tank headspace analysis carried out concurrently. If the results show that the crude oil analysis methodology is:
[Conditions 2.6a through 2.6d, Construction Permit 098CP01, 3/9/2005]
- (A) More conservative than the headspace sampling, continue to calculate the HAP emissions according to Conditions 16.1.a and 16.1.e;

- (B) Less conservative than the headspace sampling, sample at quarterly intervals and calculate HAP emissions at quarterly intervals according to Condition 16.1.e and multiply all results by the ratio between test results from Conditions 16.1.f(ii) and 16.1.f(iii). When HAP emissions fall below 90% of the limits in Condition 16, the Permittee may continue to monitor at 12 month intervals according to Conditions 16.1.a and 16.1.e. The Permittee should continue to multiply the results by the ratio between test results from Conditions 16.1.f(ii) and 16.1.f(iii).

[Conditions 2.6d(i) & 2.6d(ii), Construction Permit 098CP01, 3/9/2005]

16.2. **Reporting.** Report as follows:

[Condition 3, Construction Permit 098CP01, 3/9/2005]

[40 CFR 71.6(a)(3)(iii)]

- a. Report under Condition 64, the following information:

[Condition 3.1, Construction Permit 098CP01, 3/9/2005]

- (i) the results of any crude oil sample analysis obtained during the reporting period as set out by Conditions 16.1.b and 16.1.f; and
- (ii) the completed calculation spreadsheets showing the 12-month rolling total HAP emissions for each pollutant and the 12-month rolling aggregate total HAP emissions as calculated under Conditions 16.1.e and 16.1.f.

[Conditions 3.1a & 3.1b, Construction Permit 098CP01, 3/9/2005]

- b. Report under Condition 63, if:

[Condition 3.2, Construction Permit 098CP01, 3/9/2005]

- (i) the 12-month rolling total individual HAP emission from EU ID 20 exceeds the limit in Condition 16;
- (ii) the 12-month rolling total aggregate HAP emissions from EU ID 20 exceeds the limit in Condition 16; or
- (iii) the monitoring, recordkeeping, or reporting requirements are not in accordance with Conditions 16.1.a through 16.1.f.

[Conditions 3.2a through 3.2c, Construction Permit 098CP01, 3/9/2005]

- 17. To avoid a minor permit classification under 18 AAC 50.502(c)(3), the Permittee shall limit the total combined emissions of NO_x from EU IDs 22 and 23 to 8.7 tpy or less as follows:

[Condition 5, Minor Permit AQ0098MSS02, 6/15/2017]

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

[40 CFR 71.6(a)(1)]

- 17.1. Limit the combined hours of operation of EU IDs 22 and 23 to no more than 2,600 hours per year.

[Condition 5.1, Minor Permit AQ0098MSS02, 6/15/2017]

- a. Install, maintain, and operate an hour meter on each of EU IDs 22 and 23;
- b. Record the hour meter reading for each of EU IDs 22 and 23 on the last day of each month;
- c. By the 15th day of each month, calculate and record:

[Conditions 5.1a through 5.1c, Minor Permit AQ0098MSS02, 6/15/2017]
[40 CFR 71.6(a)(3)]

- (i) the number of hours each of EU IDs 22 and 23 operated during the previous month, if the meter is not operational assume continuous operation for that period;
- (ii) the total number of hours each of EU IDs 22 and 23 operated during the previous 12 consecutive months; and
- (iii) The combined total number of hours the EU IDs 22 and 23 operated during the previous 12 consecutive months.

[Conditions 5.1c(i) through 5.1c(iii), Minor Permit AQ0098MSS02, 6/15/2017]

- d. Report in each operating report required in Condition 64 the following information for each month of the reporting period:

[Condition 5.1d, Minor Permit AQ0098MSS02, 6/15/2017]
[40 CFR 71.6(a)(3)]

- (i) the hour meter readings obtained under Condition 17.1.b; and
- (ii) the values determined under Condition 17.1.c(ii).

[Conditions 5.1d(i) & 5.1d(ii), Minor Permit AQ0098MSS02, 6/15/2017]

- e. Report in accordance with Condition 63 whenever the limit in Condition 17.1 is exceeded, or if Conditions 17.1.a through 17.1.d are not met.

[Condition 5.1e, Minor Permit AQ0098MSS02, 6/15/2017]
[40 CFR 71.6(a)(3)]

- 18.** The Permittee shall limit the operation of EU ID 18 to no more than 100 hours per 12 month rolling period.

[Condition 5, Minor Permit AQ0098MSS03, 11/15/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

- 18.1. Install, maintain, and operate an hour meter on EU ID 18;
- 18.2. Record the hour meter reading for EU ID 18 on the last day of each month;
- 18.3. By the 15th day of each month, calculate and record:

[Conditions 5.1 through 5.3, Minor Permit AQ0098MSS03, 11/15/2019]
[40 CFR 71.6(a)(3)]

- a. the number of hours EU ID 18 operated during the previous month, if the meter is not operational assume continuous operation for that period; and
- b. the total number of hours EU ID 18 operated during the previous 12 consecutive months.

[Conditions 5.3a & 5.3b, Minor Permit AQ0098MSS03, 11/15/2019]

- 18.4. Report in each operating report required in Condition 64 the following information for each month of the reporting period:

[Condition 5.4, Minor Permit AQ0098MSS03, 11/15/2019]
[40 CFR 71.6(a)(3)]

- a. the hour meter reading obtained under Condition 18.1 for EU ID 18; and
- b. the values determined under Condition 18.3.b for EU ID 18; and

[Conditions 5.4a & 5.4b, Minor Permit AQ0098MSS03, 11/15/2019]

- 18.5. Report as excess emissions and permit deviation as described in Condition 63 whenever the limit in Condition 18 is exceeded, or if Conditions 18.1 through 18.4 are not met.

- 18.6. Condition 18 is no longer applicable upon the Department receiving written notification that one of EU IDs 1 or 4 through 6 has been removed from service⁶.

[Conditions 5.5 & 5.6, Minor Permit AQ0098MSS03, 11/15/2019]
[40 CFR 71.6(a)(3)]

Insignificant Emissions Units

19. 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:

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

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

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

[18 AAC 50.055(b)(1)]

- 19.3. **Sulfur Standard:** The Permittee shall 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)]

⁶ Removed from service is defined as disconnecting the fuel line to the emission unit.

- 19.4. **General MR&R for Insignificant Emissions Units:** The Permittee shall comply with the following:
- a. Submit the compliance certifications of Condition 65 based on reasonable inquiry;
 - b. Comply with the requirements of Condition 46;
 - c. Report in the operating report required by Condition 64 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 19.1, 19.2, and 19.3.

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

Section 4. Federal Requirements

40 CFR Part 60 New Source Performance Standards

Subpart A

20. New Source Performance Standards (NSPS) Subpart A Notification. Unless exempted by a specific subpart, for any affected facility⁷ or existing facility⁸ regulated under NSPS requirements in 40 CFR 60, the Permittee shall furnish the Administrator written notification or, if acceptable to both the Administrator⁹ and the Permittee, electronic notification, as follows:

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

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

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

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

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

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

- a. information describing the precise nature of the change,
- b. present and proposed emission control systems,
- c. productive capacity of the facility before and after the change, and
- d. the expected completion date of the change.

[40 CFR 60.7(a)(4), Subpart A]

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

⁷ *Affected facility* means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 CFR 60.2.

⁸ *Existing facility* means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in this part, and the construction or modification of which was commenced before the date of proposal of that standard; or any apparatus which could be altered in such a way as to be of that type, as defined in 40 CFR 60.2.

⁹ For Section 4 of this permit, the Department defines *Administrator* to mean the EPA Administrator and the Department.

[40 CFR 60.15(d), Subpart A]

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

[40 CFR 60.15(d)(1) through (7), Subpart A]

- 21. NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Condition 22. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[18 AAC 50.040(a)(1)]
[40 CFR 60.12, Subpart A]

Subpart III

- 22. NSPS Subpart III Applicability.** For EU IDs 14 through 17, comply with the following applicable requirements of NSPS Subpart III.

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

NSPS Subpart III Emission Standards

- 22.1. Comply with the following emission standards:

[40 CFR 71.6(a)(1)]
[40 CFR 60.4201(a) & 60.4204(b), Subpart III]

- a. PM: 0.03 g/kW-hr
- b. NO_x: 0.67 g/kW-hr
- c. NMHC: 0.19 g/kW-hr
- d. CO: 3.5 g/kW-hr

[Table 1, 40 CFR 1039.101, Subpart B]

- 22.2. Performance tests conducted in-use must meet the not-to-exceed (NTE) standards as indicated in 40 CFR 60.4212.
[40 CFR 71.6(a)(1)]
[40 CFR 60.4204(d), Subpart III]
- 22.3. Owners and operators of stationary compression ignition (CI) internal combustion engines (ICE) must operate and maintain stationary CI ICE that achieve the emission standards as required in Condition 22.1 over the entire life of the engine.
[40 CFR 71.6(a)(1)]
[40 CFR 60.4206, Subpart III]
- 22.4. Use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel.
[40 CFR 71.6(a)(1)]
[40 CFR 60.4207(b), Subpart III]

NSPS Subpart III Compliance Requirements

- 22.5. If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in Condition 22.1, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.
[40 CFR 71.6(a)(1)]
[40 CFR 60.4209(b), Subpart III]
- 22.6. You must do all of the following, except as permitted under Condition 22.8:
[40 CFR 71.6(a)(1)]
[40 CFR 60.4211(a), Subpart III]
- a. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions; and
 - b. Change only those emission-related settings that are permitted by the manufacturer.
[40 CFR 60.4211(a)(1) & (2), Subpart III]
- 22.7. You must comply with the emission standards in Condition 22.1 by purchasing an engine certified to the emission standards in Condition 22.1. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Condition 22.8.
[40 CFR 71.6(a)(3)]
[40 CFR 60.4211(c), Subpart III]
- 22.8. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:
[40 CFR 71.6(a)(3)]

[40 CFR 60.4211(g), Subpart III]

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

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

- 22.9. Owners and operators who conduct performance tests pursuant to NSPS Subpart III must do so according to paragraphs (a) through (e) of 40 CFR 60.4212.

[40 CFR 71.6(a)(3)]

[40 CFR 60.4212, Subpart III]

- 22.10. If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

[40 CFR 71.6(a)(3)]

[40 CFR 60.4214(c), Subpart III]

- 22.11. Table 8 to NSPS Subpart III shows which parts of the General Provisions in 40 CFR 60.1 through 60.19 apply to you.

[40 CFR 71.6(a)(3)]

[40 CFR 60.4218, Subpart III]

40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

Subparts A & M

23. Comply with the applicable requirements set forth in 40 CFR 61.145, 61.146, 61.148, 61.150, and 61.152 of Subpart M, and the applicable sections set forth in 40 CFR 61, Subpart A and Appendix A.

[18 AAC 50.040(b)(1), 50.040(b)(2)(F), & 50.326(j)]

[40 CFR 61 Subparts A & M, & Appendix A]

40 CFR Part 62 Approval and Promulgation of State Plans for Designated Facilities and Pollutants

Subpart HHH

24. **EU ID 11 Medical Waste Limit.** The Permittee shall not allow the total quantity (pounds) of medical/infectious wastes to exceed 10 percent of the fuel feed stream of EU ID 11 on a calendar quarter basis.

[18 AAC 50.040(g)(3), (j)(4) & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 62.14400(b)(2) & 62.14490, Subpart HHH]

24.1. Keep records on a calendar quarter basis of the weight of hospital waste and medical/infectious waste combusted as well as the weight of all other fuels and wastes combusted at the co-fired combustor.

24.2. Submit the records in Condition 24.1 to the EPA Administrator (or delegated enforcement authority) upon request.

[40 CFR 71.6(a)(3)]
[40 CFR 62.14400(b)(2) & (c), Subpart HHH]

24.3. Report in accordance with Condition 63 if the weight of medical/infectious waste incinerated exceeds the 10 percent exemption threshold of Condition 24 for a given calendar quarter.

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

Subpart III

25. EU ID 11 Commercial and Industrial Solid Waste Limit. The Permittee shall burn greater than 30 percent municipal solid waste or refuse-derived fuel, as defined in 40 CFR part 60 Subpart Ea, Subpart Eb, Subpart AAAA, and Subpart BBBB, in EU ID 11.

[18 AAC 50.040(g)(4), (j)(4) & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 62.14525(c)(2), Subpart III]

25.1. Keep records on a calendar quarter basis of the weight of municipal solid waste burned, and the weight of all other fuels and wastes burned in the unit.

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 62.14525(c)(2)(ii), Subpart III]

25.2. Submit any records required to support your claims of exemption to the EPA Administrator (or delegated enforcement authority) upon request.

[40 CFR 71.6(a)(3)(iii)]
[40 CFR 62.14531, Subpart III]

25.3. Report in accordance with Condition 63 if the weight of municipal solid waste and refuse-derived fuel is less than the exemption threshold of Condition 25 for a given calendar quarter.

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

40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants

Subpart A

26. Comply with the applicable requirements of 40 CFR 63 Subpart A in accordance with the provisions for applicability of Subpart A in Subpart ZZZZ, Table 8 for EU IDs 18 and 21 through 23 and in Subpart JJJJJ, Table 8 for EU IDs 9 and 10.

[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.6665 & Table 8, Subpart ZZZZ]

[40 CFR 63.11235 & Table 8, Subpart JJJJJ]

Subpart ZZZZ

27. **NESHAP Subpart ZZZZ Applicability.** For EU IDs 14 through 17, meet the requirements of 40 CFR 63 by meeting the requirements of Condition 22. No further requirements apply for such engines under 40 CFR 63.

[18 AAC 50.040(c)(23), 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.6590(c), Subpart ZZZZ]

28. **NESHAP Subpart ZZZZ Applicability.** For EU IDs 18 and 21 through 23, comply with the following applicable requirements of NESHAP Subpart ZZZZ.

[18 AAC 50.040(c)(23), 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.6585(c) & 63.6590(a)(1)(iii), Subpart ZZZZ]

NESHAP Subpart ZZZZ Emission Limitations, Operating Limitations, and Other Requirements

- 28.1. For EU IDs 22 and 23, you must meet the following requirements, except during periods of startup:

[40 CFR 71.6(a)(1)]
[40 CFR 63.6603(a), Subpart ZZZZ]

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

[Table 2d, Item 1; NESHAP Subpart ZZZZ]

- 28.2. For EU IDs 18 and 21, you must meet the following requirements, except during periods of startup:

[40 CFR 71.6(a)(1)]
[40 CFR 63.6603(a), Subpart ZZZZ]

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

[Table 2d, Item 4; NESHAP Subpart ZZZZ]

- 28.3. 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 CFR 71.6(a)(1)]
[40 CFR 63.6625(h), Subpart ZZZZ]

- 28.4. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Conditions 28.1.a and 28.2.a. The oil analysis must be performed at the same frequency specified for changing the oil in Conditions 28.1.a and 28.2.a. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[40 CFR 71.6(a)(3)]
[40 CFR 63.6625(i) & Table 2d, Subpart ZZZZ]

- 28.5. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Condition 28.2, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

[40 CFR 71.6(a)(3)]
[Table 2d, NESHAP Subpart ZZZZ]

NESHAP Subpart ZZZZ General Requirements

- 28.6. You must be in compliance with the requirements under Condition 28 at all times.
- 28.7. At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the

Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 71.6(a)(1)]
[40 CFR 63.6605(a) & (b), Subpart ZZZZ]

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

- 28.8. For EU IDs 18 and 21, you must install a non-resettable hour meter if one is not already installed.

[40 CFR 71.6(a)(3)]
[40 CFR 63.6625(f), Subpart ZZZZ]

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

- 28.9. Demonstrate continuous compliance with each requirement in Conditions 28.1 and 28.2 by:

[40 CFR 71.6(a)(3)]
[40 CFR 63.6640(a), Subpart ZZZZ]

- a. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
- b. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

[40 CFR 63.6625(e) & Table 6, Item 9; Subpart ZZZZ]

- 28.10. For EU IDs 18 and 21, you must operate the emergency stationary RICE according to the requirements in Conditions 28.10.a through 28.10.c. In order for the engine to be considered an emergency stationary RICE under NESHAP Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in Conditions 28.10.a through 28.10.c, is prohibited. If you do not operate the engine according to the requirements in Conditions 28.10.a through 28.10.c, the engine will not be considered an emergency engine under NESHAP Subpart ZZZZ and must meet all requirements for non-emergency engines.

[40 CFR 71.6(a)(1)]
[40 CFR 63.6640(f), Subpart ZZZZ]

- a. There is no time limit on the use of emergency stationary RICE in emergency situations.

- b. You may operate your emergency stationary RICE for the purposes specified in Condition 28.10.b(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 28.10.c counts as part of the 100 hours per calendar year allowed by this paragraph.

[40 CFR 63.6640(f)(1) & (2), Subpart ZZZZ]

- (i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

[40 CFR 63.6640(f)(2)(i), Subpart ZZZZ]

- c. Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in Condition 28.10.b. Except as provided in 40 CFR 63.6640(f)(4)(i) and (ii), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 CFR 63.6640(f)(4), Subpart ZZZZ]

NESHAP Subpart ZZZZ Reporting Requirements

- 28.11. Report each instance in which you did not meet the requirements in Table 8 to NESHAP Subpart ZZZZ that apply to you.

[40 CFR 71.6(a)(3)]

[40 CFR 63.6640(e), Subpart ZZZZ]

- 28.12. Report all deviations as defined in NESHAP Subpart ZZZZ in the monitoring report required by Condition 64.

[40 CFR 71.6(a)(3)]

[40 CFR 63.6650(f), Subpart ZZZZ]

NESHAP Subpart ZZZZ Recordkeeping Requirements

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

[40 CFR 71.6(a)(3)]
[40 CFR 63.6655(e), Subpart ZZZZ]

- 28.14. Your records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

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

- 28.16. Keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1).

[40 CFR 71.6(a)(3)]
[40 CFR 63.6660(a) through (c), Subpart ZZZZ]

Subpart JJJJJ

- 29. NESHAP Subpart JJJJJ Applicability.** For EU IDs 9 and 10, comply with the following applicable requirements of NESHAP Subpart JJJJJ.

[18 AAC 50.040(c)(39), 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.11193 & 63.11194, Subpart JJJJJ]

NESHAP Subpart JJJJJ General Requirements

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

[40 CFR 71.6(a)(1)]
[40 CFR 63.11205(a), Subpart JJJJJ]

NESHAP Subpart JJJJJ Initial Compliance Requirements

- 29.2. For affected boilers that switch fuels or make a physical change to the boiler that results in the applicability of a different subcategory within subpart JJJJJ or the boiler becoming subject to subpart JJJJJ, you must demonstrate compliance

within 180 days of the effective date of the fuel switch or the physical change. Notification of such changes must be submitted according to Condition 29.9.

[40 CFR 71.6(a)(1)]
[40 CFR 63.11210(i), Subpart JJJJJ]

NESHAP Subpart JJJJJ Standards and Continuous Compliance Requirements

29.3. You must conduct a performance tune-up according to Condition 29.3.a and keep records as required in Condition 29.6 to demonstrate continuous compliance. You must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.

[40 CFR 71.6(a)(1) & 71.6(a)(3)]
[40 CFR 63.11201(b), 63.11223(a), & Table 2, Item 12; Subpart JJJJJ]

a. You must conduct a tune-up of the boiler every 5 years to demonstrate continuous compliance as specified in Conditions 29.3.a(i) through 29.3.a(vii). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.

[40 CFR 63.11223(b) & (e), Subpart JJJJJ]

- (i) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 72 months from the previous inspection).
- (ii) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
- (iii) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 72 months from the previous inspection).
- (iv) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available.
- (v) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
- (vi) Maintain on-site and submit, if requested by the Administrator, a report containing the information in Conditions 29.3.a(vi)(A) through 29.3.a(vi)(C).

[40 CFR 63.11223(b)(1) through (6), Subpart JJJJJ]

- (A) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
- (B) A description of any corrective actions taken as a part of the tune-up of the boiler.
- (C) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

[40 CFR 63.11223(b)(6)(i) through (iii), Subpart JJJJJ]

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

[40 CFR 63.11223(b)(7), Subpart JJJJJ]

NESHAP Subpart JJJJJ Notification, Reporting, and Recordkeeping Requirements

- 29.4. You must submit to the Administrator all of the notifications in 40 CFR 63.8(f); and 63.9(c), (d), and (h) that apply to you by the dates specified in those sections.

[40 CFR 71.6(a)(3)(iii)]

[40 CFR 63.11225(a) & (a)(1), Subpart JJJJJ]

- 29.5. You must prepare, by March 1, and submit to the Department and EPA upon request, a 5-year compliance certification report containing the information specified in Conditions 29.5.a and 29.5.b.

[40 CFR 71.6(a)(3)(iii)]

[40 CFR 63.11225(b), Subpart JJJJJ]

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

[40 CFR 63.11225(b)(1) & (2), Subpart JJJJJ]

- (i) "This facility complies with the requirements in §63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler."
- (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."

[40 CFR 63.11225(b)(2)(i) & (ii), Subpart JJJJJ]

29.6. You must maintain the records specified in Conditions 29.6.a through 29.6.d.

[40 CFR 71.6(a)(3)(ii)]

[40 CFR 63.11225(c), Subpart JJJJJ]

- a. As required in 40 CFR 63.10(b)(2)(xiv), you must keep a copy of each notification and report that you submitted to comply with NESHAP Subpart JJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.
- b. You must keep records to document conformance with the work practices, emission reduction measures, and management practices required by 40 CFR 63.11214 and Condition 29.3 as specified in Conditions 29.6.b(i) and 29.6.b(ii).

[40 CFR 63.11225(c)(1) & (2), Subpart JJJJJ]

- (i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
- (ii) For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1), you must keep a record which documents how the secondary material meets each of the legitimacy criteria under 40 CFR 241.3(d)(1). If you combust a fuel that has been processed from a discarded non-hazardous secondary material pursuant to 40 CFR 241.3(b)(4), you must keep records as to how the operations that produced the fuel satisfies the definition of processing in 40 CFR 241.2 and each of the legitimacy criteria in 40 CFR 241.3(d)(1). If the fuel received a non-waste determination pursuant to the petition process submitted under 40 CFR 241.3(c), you must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per 40 CFR 241.4, you must keep records documenting that the material is a listed non-waste under 40 CFR 241.4(a).

[40 CFR 63.11225(c)(2)(i) & (ii), Subpart JJJJJ]

- c. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.
- d. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Condition 29.1, including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.11225(c)(4) & (5), Subpart JJJJJ]

29.7. Your records must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each

recorded action. You must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years.

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.11225(d), Subpart JJJJJJ]

- 29.8. If you intend to commence or recommence combustion of solid waste, you must provide 30 days prior notice of the date upon which you will commence or recommence combustion of solid waste. The notification must identify the items in 40 CFR 63.11225(f)(1) through (4).

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.11225(f), Subpart JJJJJJ]

- 29.9. If you have switched fuels or made a physical change to the boiler and the fuel switch or change resulted in the applicability of a different subcategory within NESHAP Subpart JJJJJJ, in the boiler becoming subject to NESHAP Subpart JJJJJJ, or in the boiler switching out of NESHAP Subpart JJJJJJ due to a fuel change that results in the boiler meeting the definition of gas-fired boiler, as defined in 40 CFR 63.11237, or you have taken a permit limit that resulted in you becoming subject to NESHAP Subpart JJJJJJ or no longer being subject to NESHAP Subpart JJJJJJ, you must provide notice of the date upon which you switched fuels, made the physical change, or took a permit limit within 30 days of the change. The notification must identify the items in 40 CFR 63.11225(g)(1) and (2).

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.11225(g), Subpart JJJJJJ]

40 CFR Part 82 Protection of Stratospheric Ozone

Subparts F, G, & H

30. **Subpart F – Recycling and Emissions Reduction.** Comply with the applicable standards for recycling and emission reduction of refrigerants in 40 CFR 82 Subpart F.

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

31. **Subpart G – Significant New Alternatives.** Comply with the applicable prohibitions in 40 CFR 82.174.

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

32. **Subpart H – Halon Emissions Reduction.** Comply with the applicable prohibitions in 40 CFR 82.270.

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

NESHAP Applicability Determination Requirements

- 33.** Determine rule applicability and designation of affected sources under National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Categories (40 CFR 63) in accordance with the procedures in 40 CFR 63.1(b).

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]

- 33.1. An owner or operator of a stationary source who is in the relevant source category and who determines that the source is not subject to a relevant standard or other requirement established under 40 CFR 63 must keep a record as specified in 40 CFR 63.10(b)(3).

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.1(b)(3), Subpart A]

- 34.** If an existing source becomes affected by an applicable subpart of 40 CFR 63, the Permittee shall comply with such standard by the compliance date established by the Administrator in the applicable subpart, in accordance with 40 CFR 63.6(c).

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]

- 35.** After the effective date of any relevant standard promulgated by the Administrator under 40 CFR 63, an owner or operator who constructs a new affected source that is not major-emitting or reconstructs an affected source that is not major-emitting that is subject to such standard, or reconstructs a source such that the source becomes an affected source subject to the standard, must notify the Administrator of the intended construction or reconstruction. The notification must be submitted in accordance with the procedures in 40 CFR 63.9(b).

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

Section 5. General Conditions

Standard Terms and Conditions

36. Each permit term and condition is independent of the permit as a whole and remains valid regardless of a challenge to any other part of the permit.
[18 AAC 50.326(j)(3), 50.345(a) & (e)]
37. The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and re-issuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[18 AAC 50.326(j)(3), 50.345(a) & (f)]
38. The permit does not convey any property rights of any sort, nor any exclusive privilege.
[18 AAC 50.326(j)(3), 50.345(a) & (g)]
39. **Administration Fees.** The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400 through 403.
[18 AAC 50.326(j)(1), 50.400, & 50.403]
[AS 37.10.052(b) & AS 46.14.240]
40. **Assessable Emissions.** For each period from July 1 through the following June 30, the Permittee shall pay to the Department an annual emission fee based on the stationary source's assessable emissions, as determined by the Department under 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities 10 tons per year or greater. The quantity for which fees will be assessed is the lesser of the stationary source's
- 40.1. potential to emit of 712 tpy; or
- 40.2. 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]
41. **Assessable Emission Estimates.** The Permittee shall comply as follows:

- 41.1. No later than March 31st of each year, the Permittee may submit an estimate of the stationary source's assessable emissions as determined in Condition 40.2. 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/>.
- 41.2. The Permittee shall include with the assessable emissions report all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.
- 41.3. 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.
- 41.4. If no estimate or waiver letter is submitted on or before March 31st of each year, emission fees for the next fiscal year will be based on the potential to emit in Condition 40.1.

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

42. Good Air Pollution Control Practice (GAPCP). The Permittee shall do the following for EU IDs 1, 4 through 8, 11, and 20:

- 42.1. perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;
- 42.2. keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and
- 42.3. keep a copy of either the manufacturer's or the operator's maintenance procedures.

[18 AAC 50.326(j)(3) & 50.346(b)(5)]

43. Dilution. The Permittee shall not dilute emissions with air to comply with this permit. Monitoring shall consist of an annual certification that the Permittee does not dilute emissions to comply with this permit.

[18 AAC 50.045(a)]

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

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

- 44.1. The Permittee shall keep records of:
 - a. complaints received by the Permittee and complaints received by the Department and conveyed to the Permittee; and

- b. any additional precautions that are taken
 - (i) to address complaints described in Condition 44.1.a or to address the results of Department inspections that found potential problems; and
 - (ii) to prevent future dust problems.

44.2. The Permittee shall report according to Condition 46.

- 45. Stack Injection.** The Permittee shall not release materials other than process emissions, products of combustion, or materials introduced to control pollutant emissions from a stack at a 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)]

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

[18 AAC 50.110, 50.040(j)(4), 50.326(j)(3) & 50.346(a)]
[40 CFR 71.6(a)(3)]

46.1. **Monitoring.** The Permittee shall monitor as follows:

- a. As soon as practicable after becoming aware of a complaint that is attributable to emissions from the stationary source, the Permittee shall investigate the complaint to identify emissions that the Permittee believes have caused or are causing a violation of Condition 46.
- b. The Permittee shall initiate and complete corrective action necessary to eliminate any violation identified by a complaint or investigation as soon as practicable if
 - (i) after an investigation because of a complaint or other reason, the Permittee believes that emissions from the stationary source have caused or are causing a violation of Condition 46; or
 - (ii) the Department notifies the Permittee that it has found a violation of Condition 46.

46.2. **Recordkeeping.** The Permittee shall keep records of

- (i) the date, time, and nature of all emissions complaints received;
- (ii) the name of the person or persons that complained, if known;
- (iii) a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 46; and
- (iv) any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

- 46.3. **Reporting.** The Permittee shall report as follows:
- a. With each stationary source operating report under Condition 64, the Permittee shall include a brief summary report which must include the following for the period covered by the report:
 - (i) the number of complaints received;
 - (ii) the number of times the Permittee or the Department found corrective action necessary;
 - (iii) the number of times action was taken on a complaint within 24 hours; and
 - (iv) the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.
 - b. The Permittee shall notify the Department of a complaint that is attributable to emissions from the stationary source within 24 hours after receiving the complaint, unless the Permittee has initiated corrective action within 24 hours of receiving the complaint.
 - c. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 63.
47. **Technology-Based Emission Standard.** If an unavoidable emergency, malfunction (as defined in 18 AAC 50.235(d)), or non-routine repair (as defined in 18 AAC 50.990(64)), causes emissions in excess of a technology-based emission standard¹⁰ listed in Condition 22 or 30 (refrigerants),
- 47.1. take all reasonable steps to minimize levels of emissions that exceed the standard, and
 - 47.2. report in accordance with Condition 63; the report must include information on the steps taken to mitigate emissions and corrective measures taken or to be taken.
- [18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]
[40 CFR 71.6(c)(6)]

Open Burning Requirements

48. **Open Burning.** If open burning is conducted at this stationary source, comply with the requirements of 18 AAC 50.065.
- 48.1. Keep written records to demonstrate compliance with the limitations in this condition and the requirements of 18 AAC 50.065. Submit copies of the records to the Department upon request.

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

48.2. Include this condition in the annual certification required under Condition 65.

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

Section 6. General Source Testing and Monitoring Requirements

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

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

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

[18 AAC 50.220(b)]

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

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

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

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

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

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

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

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

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

51.4. 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 12 to record data.

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

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

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

- 51.6. Source testing for emissions of PM_{2.5} and PM₁₀ must be conducted in accordance with the procedures specified in 40 CFR 51, Appendix M, Methods 201 or 201A and 202.
- [18 AAC 50.035(b)(2) & 50.220(c)(1)(F)]
[40 CFR 51, Appendix M]
- 51.7. Source testing for emissions of any pollutant may be determined using an alternative method approved by the Department in accordance with 40 CFR 63 Appendix A, Method 301.
- [18 AAC 50.040(c)(32) & 50.220(c)(2)]
[40 CFR 63, Appendix A, Method 301]
- 52. Excess Air Requirements.** To determine compliance with this permit, standard exhaust gas volumes must include only the volume of gases formed from the theoretical combustion of the fuel, plus the excess air volume normal for the specific emissions unit type, corrected to standard conditions (dry gas at 68° F and an absolute pressure of 760 millimeters of mercury).
- [18 AAC 50.220(c)(3) & 50.990(102)]
- 53. Test Exemption.** Compliance with Conditions 55, 56 and 57 is not required for Method 9 Plan (Condition 3.2) observations.
- [18 AAC 50.345(a)]
- 54. Test Deadline Extension.** The Permittee may request an extension to a source test deadline established by the Department. The Permittee may delay a source test beyond the original deadline only if the extension is approved in writing by the Department's appropriate division director or designee.
- [18 AAC 50.345(a) & (l)]
- 55. Test Plans.** Except as provided in Condition 53, before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance and must specify how the emissions unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 49 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.
- [18 AAC 50.345(a) & (m)]
- 56. Test Notification.** Except as provided in Condition 53, at least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and the time the source test will begin.
- [18 AAC 50.345(a) & (n)]
- 57. Test Reports.** Except as provided in Condition 53, within 60 days after completing a source test, the Permittee shall submit one certified copy of the results in the format set out in the *Source Test Report Outline*, adopted by reference in 18 AAC 50.030. The Permittee shall certify the results in the manner set out in Condition 60. If requested in writing by

the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

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

- 58. Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 6 and 19.2, the three-hour average is determined using the average of three one-hour test runs.

[18 AAC 50.220(f)]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

59. Keep all records required by this permit for at least five years after the date of collection, including:

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

59.2. Records of all monitoring required by this permit, and information about the monitoring including:

- a. calibration and maintenance records, original strip chart or computer-based recordings for continuous monitoring instrumentation;
- b. the date, place, and time of sampling or measurements;
- c. the date(s) analyses were performed;
- d. the company or entity that performed the analyses;
- e. the analytical techniques or methods used;
- f. the results of such analyses; and,
- g. the operating conditions as existing at the time of sampling or measurement.

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

Reporting Requirements

60. **Certification.** The Permittee shall certify any permit application, report, affirmation, or compliance certification submitted to the Department and required under the permit by including the signature of a responsible official for the permitted stationary source following the statement: *“Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.”* Excess emission reports must be certified either upon submittal or with an operating report required for the same reporting period. All other reports and other documents must be certified upon submittal.

60.1. The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if the person providing the electronic signature

- a. uses a security procedure, as defined in AS 09.80.190, that the Department has approved; and
- b. accepts or agrees to be bound by an electronic record executed or adopted with that signature.

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

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

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

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

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

[18 AAC 50.345(a) & (i), 50.200, & 50.326(a) & (j)]

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

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

- a. In accordance with 18 AAC 50.240(c), as soon as possible, report
 - (i) excess emissions that present a potential threat to human health or safety; and
 - (ii) excess emissions that the Permittee believes to be unavoidable.
- b. In accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or nonroutine repair that causes emissions in excess of a technology-based emission standard.
- c. If a continuous or recurring excess emissions is not corrected within 48 hours of discovery, report within 72 hours of discovery unless the Department provides written permission to report under Condition 63.1.d.
- d. Report all other excess emissions not described in Conditions 63.1.a, 63.1.b, and 63.1.c within 30 days after the end of the month during which the excess emissions occurred or as part of the next routine operating report in Condition 64 for excess emissions that occurred during the period covered by the report, whichever is sooner.
- e. If requested by the Department, the Permittee shall provide a more detailed written report to follow up an excess emissions report.

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

- 63.2. **Permit Deviations Reporting.** For permit deviations that are not “excess emissions,” as defined under 18 AAC 50.990:
- a. Report according to the required deadline for failure to monitor, as specified in other applicable conditions of this permit (Conditions 5.3.b and 9.4.b).
 - b. Report all other permit deviations within 30 days after the end of the month during which the deviation occurred or as part of the next routine operating report in Condition 64 for permit deviations that occurred during the period covered by the report, whichever is sooner.

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

- 63.3. **Notification Form.** When reporting either excess emissions or permit deviations, the Permittee shall report using either the Department’s online form, which 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, or, if the Permittee prefers, the form contained in Section 14 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)]

64. **Operating Reports.** During the life of this permit¹¹, the Permittee shall submit to the Department an operating report in accordance with Conditions 60 and 61 by August 1 for the period January 1 to June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.

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

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.

- e. any corrective action or preventive measures taken and the date(s) of such actions; or
- 64.3. when excess emissions or permit deviation reports have already been reported under Condition 63 during the period covered by the operating report, the Permittee shall either
- a. include a copy of those excess emissions or permit deviation reports with the operating report; or
 - b. cite the date(s) of those reports.
- 64.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 3.2.e, 7.2, and 10.1 which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report.
- a. the date of the emissions;
 - b. the equipment involved;
 - c. the permit condition affected; and
 - d. the monitoring result which triggered the additional monitoring.
- 64.5. **Transition from expired to renewed permit.** For the first period of this renewed operating permit, also provide the previous permit's operating report elements covering that partial period immediately preceding the effective date of this renewed permit.
- [18 AAC 50.346(b)(6) & 50.326(j)]
[40 CFR 71.6(a)(3)(iii)(A)]
65. **Annual Compliance Certification.** Each year by March 31, compile and submit to the Department an annual compliance certification report according to Condition 61.
- 65.1. Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, as follows:
- a. identify each term or condition set forth in Section 3 through Section 9, that is the basis of the certification;
 - b. briefly describe each method used to determine the compliance status;
 - c. state whether compliance is intermittent or continuous; and
 - d. identify each deviation and take it into account in the compliance certification.
- 65.2. **Transition from expired to renewed permit.** For the first period of this renewed operating permit, also provide the previous permit's annual compliance certification report elements covering that partial period immediately preceding the effective date of this renewed permit.

65.3. In addition, submit a copy of the report directly to the Clean Air Act Compliance Manager, US EPA Region 10, ATTN: Air Toxics and Enforcement Section, Mail Stop: 20-C04, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188.

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

66. Emission Inventory Reporting. The Permittee shall 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:

66.1. **Every-year Inventory.** Each year by April 30, if the stationary source's potential to emit for the previous calendar year equals or exceeds:

- a. 250 tons per year (tpy) of NH₃, PM₁₀, PM_{2.5} or VOC; or
- b. 2,500 tpy of CO, NO_x or SO₂.

66.2. **Triennial Inventory.** Every third year by April 30, if the stationary source's potential to emit (except actual emissions for Pb) for the previous calendar year equals or exceeds:

- 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 66.2.b(iv) through 66.2.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 in O₃ extreme nonattainment areas.

- 66.3. For reporting under Condition 66.2, the Permittee shall report the annual emissions and the required data elements under Condition 66.4 every third year for the previous calendar year as scheduled by the EPA.¹²
- 66.4. 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>
- 66.5. Submit the report in accordance with the submission instructions on the Department's Standard Permit Conditions webpage at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-xv-and-xvi-submission-instructions/>.

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

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

- 67.1. **Reports.** Except for previously submitted reports and federal reports and notices submitted through EPA's Central Data Exchange (CDX) and Compliance and Emissions Data Reporting Interface (CEDRI) online reporting system, attach to the operating report required by Condition 64 for the period covered by the report, a copy of any NSPS and 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 CFR 71.6(c)(6)]

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

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

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

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

Section 8. Permit Changes and Renewal

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

- 68.1. The Permittee shall provide a copy of each application for modification or renewal of this permit, including any compliance plan, or application addenda, at the time the application or addendum is submitted to the Department;
- 68.2. The information shall be submitted to the Part 70 Operating Permit Program, US EPA Region 10, Air Permits and Toxics Branch, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188;
- 68.3. To the extent practicable, the Permittee shall provide to EPA applications in portable document format (pdf); MS Word format (.doc); or other computer-readable format compatible with EPA's national database management system; and
- 68.4. The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

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

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

[18 AAC 50.040(j)(4) & 50.326(j)]
[40 CFR 71.6(a)(8)]

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

- 70.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 70.2. Provide contemporaneous written notice to EPA and the Department of each such change, except for changes that qualify as insignificant under 18 AAC 50.326(d) – (i). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change;
- 70.3. The change shall not qualify for the shield under 40 CFR 71.6(f);
- 70.4. Keep a record describing changes made at the stationary source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

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

[40 CFR 71.6(a)(12)]

71. Operational Flexibility. CAA Section 502(b)(10)¹⁴ changes may be made within the permitted stationary source without 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): Provided, that the Permittee provides EPA and the Department with written notification no less than seven days in advance of the proposed change.

71.1. For each such change, the notification required by Condition 71 shall include a brief description of the change within the permitted stationary source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

71.2. The permit shield described in 40 CFR 71.6(f) shall not apply to any change made pursuant to Condition 71.

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

72. Permit Renewal. To renew this permit, the Permittee shall submit to the Department¹⁵ an application under 18 AAC 50.326 no sooner than [18 months before] and no later than [6 months before the expiration date of this permit]. The renewal application 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 CFR 71.7(b) and 71.5(a)(1)(iii).

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

¹⁴ As defined in 40 CFR 71.2, CAA Section 502(b)(10) changes are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

¹⁵ Submit permit applications to the Department's Anchorage office. The current address is: Air Permit Intake Clerk, ADEC, 555 Cordova Street, Anchorage, AK 99501.

Section 9. Compliance Requirements

General Compliance Requirements

73. Compliance with permit terms and conditions is considered to be compliance with those requirements that are
- 73.1. included and specifically identified in the permit; or
 - 73.2. determined in writing in the permit to be inapplicable.
- [18 AAC 50.326(j)(3) & 50.345(a) & (b)]
74. 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
- 74.1. an enforcement action;
 - 74.2. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or
 - 74.3. denial of an operating permit renewal application.
- [18 AAC 50.040(j), 50.326(j) & 50.345(a) & (c)]
75. For applicable requirements with which the stationary source is in compliance, the Permittee shall continue to comply with such requirements.
- [18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A)]
76. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.
- [18 AAC 50.326(j)(3) & 50.345(a) & (d)]
77. The Permittee shall allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator to
- 77.1. enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
 - 77.2. have access to and copy any records required by the permit;
 - 77.3. inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
 - 77.4. sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.
- [18 AAC 50.326(j)(3) & 50.345(a) & (h)]

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

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

Section 10. Permit As Shield from Inapplicable Requirements

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

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

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

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

80. 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, comply with such requirements on a timely basis including, but not limited to, providing appropriate notification to EPA, obtaining a construction permit and/or an operating permit revision.

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

Table B - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
7 & 8	40 CFR 63 Subpart JJJJJ	Units are process heaters, not boilers as defined in 40 CFR 63.11237

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

Section 11. HAP Content of Crude Oil Storage Tank Vapors

This section provides a step-by-step procedure for determining the Hazardous Air Pollutants (HAPs) for the crude oil storage tank vapors. Alyeska will conduct laboratory tests of the crude oil to determine the weight fraction of various components. These weight fractions are then used, through many calculations, to determine the HAP emission rate from the tank.

I. Sample Description/Comments

1. Sample Location _____
2. Sample Date _____
3. Sample ID _____
4. Core Laboratories data includes crude molecular weight and component wt% values.

II. Determine Component Mole Fractions in Liquid Crude

Methodology Assumptions/Comments:

1. The component mole fraction in crude is determined from component weight fraction and component molecular weight by assuming a mass of 1,000 lb of crude (see AP-42 Section 7.1.5).
2. The component molecular weight of Decanes+ is equal to the value required for the sum of all molecular weights to be equal to the Core Laboratories measured crude molecular weight of: ___ lb/lb-mole

Liquid Crude Analysis Data		Calculate Component Mole Fraction in Crude			
Component i	Component Weight Fraction in Crude (wt%/100) Z_{Li}	Component Molecular Weight M_i	Total Moles of Crude (sum $Z_{Li}/M_i \times 1,000$) X_T	Component Mole Fraction in Crude ($Z_{Li}/M_i/X_T$) X_i	Crude Molecular Weight (sum $M_i \times X_i$) M_T
Methane		16			
Ethane		30			
Propane		44			
Isobutane		58			
N-Butane		58			
1,3 Butadiene		54			
Isopentane		72			
N-Pentane		72			
N-Hexane		86			
Hexane		84			
Benzene		78			
Heptanes		97			
2,2,4 Trimethylpentane		114			
Toluene		92			
Octanes		111			
Ethyl Benzene		106			
Xylenes		106			
Isopropylbenzene		120			
Nonanes		123			
Naphthalene		128			
Decanes+					
SUM $Z_{Li} / X_T / X_i / M_T$	1.00			1.00	

Note: Molecular weight values for component groups such as octanes are estimates from Core Laboratories.

III. Determine Component Vapor Pressure at Given Crude Temperature

Methodology Assumptions/Comments:

1. Clausius-Clapeyron equation provides relationship between temperature and vapor pressure:

$$\log P_2/P_1 = H_v/2.303R \times (T_2 - T_1/T_2 T_1)$$

where $R = \text{Universal Gas Constant} = 8.31448 \text{ J/g-mole} \cdot \text{K} = 3.58 \text{ Btu/lb-mole} \cdot \text{K}$
 $H_v = \text{Heat of Vaporization} = \text{see table below}$

2. Let P_1 be known component vapor pressure at known temperature $T_1 = 100^\circ \text{F}$ (311°K), and P_2 be unknown component vapor pressure at given crude temperature T_2 (shown below).
3. Pump station crude (and vapor) constant temperature (T_2) of: $^\circ\text{F} = \quad \quad \quad ^\circ\text{K}$
 Based on average crude temperature at this pump station during the reporting period

Component Physical Properties			Component Vapor Pressure at Crude Temperature			
Component i	Component Vapor Pressure at 100°F (psia) P_1	Component Heat of Vaporization (Btu/lb-mole) H_v	Component Heat of Vaporization/ Gas Constant $H_v/2.303R$	Calculate $(T_2 - T_1)/T_2 T_1$	Calculate Inverse Log of $(H_v/2.303R) \times (T_2 - T_1)/T_2 T_1$	Component Vapor Pressure at Crude Temperature (psia) P_2
Methane		3520	426.9			
Ethane		6349	770.1			
Propane		8071	978.9			
Isobutane		9136	1108.2			
N-Butane		9642	1169.5			
1,3 Butadiene		10025	1215.9			
Isopentane		10613	1287.3			
N-Pentane		11082	1344.2			
N-Hexane		12404	1504.5			
Hexane		12500	1516.1			
Benzene		13215	1602.8			
Heptanes		13500	1637.4			
2,2,4 Trimethylpentane		14000	1698.1			
Toluene		14263	1730.0			
Octanes		14500	1758.7			
Ethyl Benzene		15288	1854.3			
Xylenes		16000	1940.6			
Isopropylbenzene		16136	1957.1			
Nonanes		16500	2001.3			
Naphthalene		16700	2025.5			
Decanes+		47282	5734.7			

Notes:

1. Heat of Vaporization and vapor pressure of pure components from GPSA Engineering Data Book, Volume II, Section 23.
2. Vapor Pressure values for component groups such as octanes are estimates from Core laboratories.
3. Heat of Vaporization values for component groups are estimates based on values for individual components within the group.

IV. Determine Component Partial Pressure and Mole Fraction in Crude Vapor

Methodology Assumptions/Comments:

1. Conservatively assume C₁ through C₁₀ hydrocarbons and HAP's are only species present in vapor phase due to dramatic drop off in component vapor pressure as component molecular weight increases.
2. For speciation purposes, assume crude vapor pressure (P_{VA}) equal to sum of component partial pressures indicated below. This assumption ignores CO₂ present in crude and is conservative because it results in vapor mole fractions of listed components (including HAP's) being overstated.
3. Component partial pressure is equal to the component mole fraction in the liquid crude multiplied by the component vapor pressure at the given crude temperature:

$$P_i = P_2 \times X_i$$

4. The component mole fraction in the crude vapor is then equal to the component partial pressure divided by the overall crude vapor pressure:

$$Y_i = P_i / P_{VA}$$

Calculation of Component Partial Pressure and Mole Fraction in Vapor				
Component i	Component Vapor Pressure at Crude Temperature (psia) P ₂	Component Mole Fraction in Crude (Z _{Li} /M _i /X _T) X _i	Component Partial Pressure at Crude Temperature (P ₂ ×X _i) P _i	Component Mole Fraction in Vapor (P _i /P _{VA}) Y _i
Methane				
Ethane				
Propane				
Isobutane				
N-Butane				
1,3 Butadiene				
Isopentane				
N-Pentane				
N-Hexane				
Hexane				
Benzene				
Heptanes				
2,2,4 Trimethylpentane				
Toluene				
Octanes				
Ethyl Benzene				
Xylenes				
Isopropylbenzene				
Nonanes				
Naphthalene				
Decanes+				
P _{VA} / Y _i SUM				1.00

V. Determine Component Weight Fractions in Crude Vapor

1. Component weight fraction in the vapor is determined in two steps. First, the overall vapor molecular weight is determined by summing the product of the molecular weight and vapor mole fraction for each component:

$$M_V = \sum (M_i \times Y_i)$$

2. Then, the component weight fraction is determined by dividing the product of the molecular weight and vapor mole fraction for each component by the overall vapor molecular weight:

$$Z_{Vi} = (M_i \times Y_i) / M_V$$

Component Physical Properties		Calculation of Component Weight Fraction in Vapor		
Component i	Component Molecular Weight M_i	Component Mole Fraction in Vapor (P_i/P_{VA}) Y_i	Calculate Vapor Molecular Weight (sum $M_i \times Y_i$) M_V	Component Weight Fraction in Vapor $(M_i \times Y_i / M_V)$ Z_{Vi}
Methane	16			
Ethane	30			
Propane	44			
Isobutane	58			
N-Butane	58			
1,3 Butadiene	54			
Isopentane	72			
N-Pentane	72			
N-Hexane	86			
Hexane	84			
Benzene	78			
Heptanes	97			
2,2,4 Trimethylpentane	114			
Toluene	92			
Octanes	111			
Ethyl Benzene	106			
Xylenes	106			
Isopropylbenzene	120			
Nonanes	123			
Naphthalene	128			
Decanes+				
Y_i SUM / M_V / Z_{Vi} SUM		1.00		1.00

**Estimated Actual HAP Emissions - Breakout Tank
 Pump Station 5**

- The total organic compound (TOC) emissions (losses) are determined from EPA's TANKS 4.0 Program. Individual component emission rates (losses) are then determined using the vapor phase weight fractions previously determined for each component.

$$L_{Ti} = (Z_{Vi})(L_T)$$

- Based on an actual flow of crude to the breakout tank of: _____ bbl/yr
 _____ gal/yr

The total TOC losses from the breakout tank are: _____ lb/yr
 _____ tpy

Calculation of Component Emission Rates (Losses)				
Component i	Component Weight Fraction in Vapor Z_{Vi}	TOC Losses (from TANKS) L_T	Component Emission Rate/Loss L_{Ti}	Total HAP Emission Rate/Losses L_{HAP}
Methane				N/A
Ethane				N/A
Propane				N/A
Isobutane				N/A
N-Butane				N/A
1,3 Butadiene				
Isopentane				N/A
N-Pentane				N/A
N-Hexane				
Hexane				N/A
Benzene				
Heptanes				N/A
2,2,4 Trimethylpentane				
Toluene				
Octanes				N/A
Ethyl Benzene				
Xylenes				
Isopropylbenzene				
Nonanes				N/A
Naphthalene				
Decanes+				N/A
L_{Ti} SUM / L_{HAP} SUM				

Section 12. 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 at <https://www3.epa.gov/ttnemc01/methods/webinar8.pdf>).

- Source Name: full company name, parent company or division or subsidiary information, if necessary.
- Address: street (not mailing or home office) address of facility where visible emissions observation is being made.
- Phone (Key Contact): number for appropriate contact.
- Stationary Source ID Number: number from NEDS, agency file, etc.
- Process Equipment, Operating Mode: brief description of process equipment (include type of facility) and operating rate, % capacity, and/or mode (e.g. charging, tapping, shutdown).
- Control Equipment, Operating Mode: specify type of control device(s) and % utilization, control efficiency.
- Describe Emission Point: for identification purposes, stack or emission point appearance, location, and geometry; and whether emissions are confined (have a specifically designed outlet) or unconfined (fugitive).
- Height Above Ground Level: stack or emission point height relative to ground level; can use engineering drawings, Abney level, or clinometer.
- Height Relative to Observer: indicate height of emission point relative to the observation point.
- Distance from Observer: distance to emission point; can use rangefinder or map.
- Direction from Observer: direction plume is traveling from observer.
- Describe Emissions and Color: include physical characteristics, plume behavior (e.g., looping, lacy, condensing, fumigating, secondary particle formation, distance plume visible, etc.), and color of emissions (gray, brown, white, red, black, etc.). Note color changes in comments section.
- Visible Water Vapor Present?: check “yes” if visible water vapor is present.
- If Present, note in the Comments column whether the plume is “attached” if water droplet plume forms prior to exiting stack, or “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.
- Organization: observer’s employer.
- Certified By, Date: name of “smoke school” certifying observer and date of most recent certification.

Section 13. SO₂ Material Balance Calculation¹⁶

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:

$$\begin{aligned}
 \text{A. } &= 31,200 \times (\text{wt}\%S_{\text{fuel}}) = 31,200 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{B. } &= 0.148 \times (\text{wt}\%S_{\text{fuel}}) = 0.148 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{C. } &= 0.396 \times (\text{wt}\%C_{\text{fuel}}) = 0.396 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{D. } &= 0.933 \times (\text{wt}\%H_{\text{fuel}}) = 0.933 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{E. } &= \text{B} + \text{C} + \text{D} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{F. } &= 20.9 - (\text{vol}\%_{\text{dry}}O_{2, \text{exhaust}}) = 20.9 - \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{G. } &= (\text{vol}\%_{\text{dry}}O_{2, \text{exhaust}}) \div \text{F} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{H. } &= 1 + \text{G} = 1 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{I. } &= \text{E} \times \text{H} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{SO}_2 \text{ concentration} &= \text{A} \div \text{I} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ppm}
 \end{aligned}$$

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 14. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

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

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

[18 AAC 50.346(c)]

¹⁶ Revised as of November 7, 2020

Section 14. ADEC Notification Form¹⁷

<u>Pump Station 5 (PS-5)</u>	<u>AQ0098TVP04</u>
Stationary Source (Facility) Name	Air Quality Permit Number
<u>Alyeska Pipeline Service Company</u>	
Company Name	

When did you discover the Excess Emissions/Permit Deviation?

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

When did the event/deviation occur?

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

End: Date: _____ / _____ / _____ Time: _____ : _____ (please use 24-hr clock)

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

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

- Excess Emissions – Complete Section 1 and Certify
Note: All “excess emissions” are also “permit deviations.” However, use only Section 1 for events that involve excess emissions.
- Deviation from Permit Condition – Complete Section 2 and Certify
Note: Use only Section 2 for permit deviations that do not involve excess emissions.
- Deviations from COBC¹⁸, CO¹⁹, or Settlement Agreement – Complete Section 2 and Certify

¹⁷ Revised as of July 22, 2020.
¹⁸ Compliance Order By Consent
¹⁹ Compliance Order

Section 1. Excess Emissions

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

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

- Start Up/Shut Down Natural Cause (weather/earthquake/flood)
 Control Equipment Failure Schedule Maintenance/Equipment Adjustment
 Bad Fuel/Coal/Gas Upset Condition Other _____

(c) **Description**
 Describe briefly what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance. Attach supporting information if necessary.

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

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

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

- 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 Involved:**

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

EU ID	EU Name	Permit Condition/ Potential Deviation

(c) **Description of Potential Deviation:**

Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation. Attach supporting information if necessary.

(d) Corrective Actions:

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence.

Certification:

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

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 60.)*

Submit this report in accordance with the submission instructions on the Department's Standard Permit Conditions web page at

<http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 60).

[18 AAC 50.346(b)(3)]