

DEPARTMENT OF ENVIRONMENTAL CONSERVATION

AIR QUALITY OPERATING PERMIT

Permit No. AQ0486TVP04

Issue Date: EPA DRAFT - November 12, 2025

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, **Providence Health System - Washington Inc.**, for the operation of the **Providence Alaska Medical Center**.

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. AQ0486TVP03 expires.

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

James R. Plosay, Manager
Air Permits Program

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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:	Providence Health System - Washington Inc. 506 Second Avenue, Suite 1200 Seattle, WA 98014-2329	
Stationary Source Name:	Providence Alaska Medical Center	
Location:	60° 11' 19" North; 149° 49' 03" West	
Physical Address:	3200 Providence Drive Anchorage, AK 99508	
Owner and Operator:	Providence Health System - Washington Inc. 506 Second Avenue, Suite 1200 Seattle, WA 98014-2329	
Permittee's Responsible Official:	Kenneth Nauseda, Supervising Engineer 3200 Providence Drive Anchorage, AK 99508	
Designated Agent:	Dale Rahn, Executive Director Real Estate Operations 3200 Providence Drive Anchorage, AK 99508	
Stationary Source and Building Contact:	Kenneth Nauseda, Supervising Engineer 3200 Providence Drive Anchorage, AK 99508 (907) 212-5058 Kenneth.Nauseda@Providence.org	
Fee and Permit Contact:	Dale Rahn, Executive Director Real Estate Operations 3200 Providence Drive Anchorage, AK 99508 (907) 212-5084 Dale.Rahn@Providence.org	
Process Description:	SIC Code	8062 - General Medical and Surgical Hospitals
	NAICS Code:	622110 - General Medical and Surgical Hospitals

[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	Emissions Unit Name	Emissions Unit Description	Fuel	Rating/Size	Installation or Construction Date
1	SB-03	E. Keller Steam Boiler	Dual Fuel	38.5 MMBtu/hr	1974
2	SB-04	E. Keller Steam Boiler	Dual Fuel	38.5 MMBtu/hr	1974
3a	SB-07	Cleaver Brooks Steam Boiler	Dual Fuel	47.0 MMBtu/hr	2023
4	SB-06	Cleaver Brooks Steam Boiler	Dual Fuel	42.2 MMBtu/hr	2000
17	G-201	Cummins Emergency Generator Engine	Diesel	300 kW	1990
22	G-301	Komatsu Emergency Generator Engine	Diesel	450 kW	1992
28	B-1	Bryan MOB Hub Boiler 1	Natural Gas	12.6 MMBtu/hr	2006
29	B-2	Bryan MOB Hub Boiler 2	Natural Gas	12.6 MMBtu/hr	2006
30	G-1	Cummins Emergency Generator Engine	Diesel	680 hp	2005
35	API-3	Cummins PRB Emergency Generator Engine	Diesel	1,046 hp	2005
39	G-2	Cummins QSB7-G3 Tower S Emergency Generator Engine	Diesel	680 hp	2009
42	EPSS-1	CAT D3516C EPSS Generator 1	Diesel	2,937 hp	2011
43	EPSS-2	CAT D3516C EPSS Generator 2	Diesel	2,937 hp	2011
44	EPSS-3	CAT D3516C EPSS Generator 3	Diesel	2,937 hp	2011
45	EPSS-4	CAT D3516C EPSS Generator 4	Diesel	2,937 hp	2011
52	N/A	Weil McLain Boiler	Diesel	0.872 MMBtu/hr	2011

[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, 2, 3a, 4, 17, 22, 28 through 30, 35, 39, 42 through 45, and 52 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 42 through 45, monitor, record, and report in accordance with Conditions 2 through 4.
- 1.2. For EU IDs 28 and 29, burn only gas as fuel. In each operating report under Condition 71 indicate whether each of these emissions units burned only gas during the period covered by the report. Report under Condition 70 if any fuel other than gas is burned in any of these emissions units.
- 1.3. For EU ID 17, as long as the emissions unit does not exceed the limit in Condition 14, monitoring shall consist of an annual compliance certification under Condition 72 for the visible emissions standard based on reasonable inquiry. Otherwise, comply with Condition 1.4.
- 1.4. For each of EU IDs 17, 22, 30, 35, and 39, 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 72 with the visible emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 71 if any of EU IDs 17, 22, 30, 35, and 39 reaches any of the significant emissions thresholds listed in 18 AAC 50.326(e) and monitor, record, and report in accordance with Conditions 2 through 4 for the remainder of the permit term for that emissions unit.
- 1.5. For EU ID 52, monitoring shall consist of an annual compliance certification under Condition 72 for the visible emissions standard based on reasonable inquiry.
- 1.6. For EU IDs 1, 2, 3a, and 4, burn gas as the primary fuel. Monitoring for these emissions units shall consist of a statement in each operating report required under Condition 71 indicating whether each of these emissions units burned gas as the primary fuel during the period covered by the report. If any of these units operated on a back-up liquid fuel during the period covered by the report, the Permittee shall monitor, record, and report in accordance with Condition 12 for that emissions unit.

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

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

Liquid Fuel-Burning Equipment

2. **Visible Emissions Monitoring.** When required by any of the Conditions 1.1 and 1.4, or in the event of replacement¹ during the permit term, the Permittee shall observe the exhaust of EU IDs 17, 22, 30, 35, 39, and 42 through 45 for visible emissions using the Method 9 Plan under Condition 2.2.
 - 2.1. The Permittee may, for each unit, elect to continue the visible emissions monitoring schedule specified in Conditions 2.2.b through 2.2.e that remains in effect from a previous permit.
 - 2.2. **Method 9 Plan.** For all observations in this plan, observe emissions unit exhaust following 40 CFR 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations.
 - a. First Method 9 Observation. Except as provided in Condition 2.1, observe the exhaust of EU IDs 17, 22, 30, 35, 39, and 42 through 45 according to the following criteria:
 - (i) Except as provided in Condition 2.2.a(ii), for any of EU IDs 42 through 45, observe exhaust within six months after the effective date of this permit.
 - (ii) For any unit replaced, observe exhaust within 60 days of the newly installed emissions unit becoming fully operational.³ Except as provided in Condition 2.2.e, after the first Method 9 observation:
 - (A) For EU IDs 42 through 45, continue with the monitoring schedule of the replaced emissions unit; and
 - (B) For EU IDs 17, 22, 30, 35, and 39, comply with Conditions 1.3 and 1.4 as applicable.
 - (iii) For EU IDs 17, 22, 30, 35, and 39, observe the exhaust of the emissions unit within 30 days after the end of the calendar month during which monitoring was triggered under Condition 1.4; 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 2.2.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 2.2.b, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform semiannual observations
 - (i) no later than seven months, but not earlier than five months, after the preceding observation; or
 - (ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following seven months after the preceding observation.
- d. Annual Method 9 Observations. After at least two semiannual observations under Condition 2.2.c, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform annual observations
 - (i) no later than 12 months, but not earlier than 10 months, after the preceding observation; or
 - (ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following 14 months after the preceding observation.
- e. Increased Method 9 Frequency. If a six-consecutive-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more individual observations are greater than 20 percent, then increase or maintain the observation frequency for that emissions unit to at least monthly intervals as described in Condition 2.2.b, and continue monitoring in accordance with the Method 9 Plan.

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

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

- 3.1. For all Method 9 observations,
 - a. the observer shall record the following:
 - (i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 11;
 - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (load or fuel consumption rate or best estimate, if unknown) on the sheet at the time opacity observations are initiated and completed;

- (iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;
 - (iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emission Observation Form in Section 11, and
 - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
 - b. To determine the six-consecutive-minute average opacity,
 - (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
 - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
 - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; and
 - (iv) record the average opacity on the sheet.
 - c. Calculate and record the highest six-consecutive and 18-consecutive-minute average opacities observed.
- 3.2. The records required by Condition 3.1 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)]

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

- 4.1. In the first operating report required in Condition 71 under this permit term, the Permittee shall state the intention to either continue the visible emissions monitoring schedule in effect from the previous permit or reset the visible emissions monitoring schedule.
- 4.2. Include in each operating report required under Condition 71 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 2 and 3 that was not done.
- 4.3. Report under Condition 70:
- a. the results of Method 9 observations that exceed 20 percent average opacity for any six-consecutive-minute period; and
 - b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.
- [18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 CFR 71.6(a)(3)(iii)]

Particulate Matter (PM) Emissions Standard

- 5. Industrial Process and Fuel-Burning Equipment PM Emissions.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 1, 2, 3a, 4, 17, 22, 28 through 30, 35, 39, 42 through 45, and 52 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

- 5.1. For EU IDs 42 through 45, monitor, record and report in accordance with Conditions 6 through 8.
- 5.2. For EU ID 17, as long as the emissions unit does not exceed the limit in Condition 14, monitoring shall consist of an annual compliance certification under Condition 72 for the particulate matter emissions standard based on reasonable inquiry. Otherwise, comply with Condition 5.3.
- 5.3. For each of EU IDs 17, 22, 30, 35, and 39, 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 72 for the particulate matter emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 71 if any of EU IDs 17, 22, 30, 35, and 39 reaches any of the significant emissions thresholds and monitor, record, and report in accordance with Conditions 6 through 8 for the remainder of the permit term for that emissions unit.
- 5.4. For EU ID 52, the Permittee must annually certify compliance under Condition 72 for the PM standard based on reasonable inquiry.
- 5.5. For EU IDs 1, 2, 3a, and 4, the Permittee shall comply with Condition 1.6.

5.6. For EU IDs 28 and 29, the Permittee shall comply with Condition 1.2.

[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

- 6. PM Monitoring.** The Permittee shall conduct source tests on EU IDs 17, 22, 30, 35, 39, and 42 through 45, to determine the concentration of PM in the exhaust of each emissions unit as follows:
- 6.1. If the result of any Method 9 observation conducted under Condition 2.2 for any of EU IDs 17, 22, 30, 35, 39, and 42 through 45 is greater than the criteria of Condition 6.2.a or Condition 6.2.b, the Permittee shall, within six months of that Method 9 observation, either:
 - a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 CFR 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than the criteria of Condition 6.2; or
 - b. except as exempted in Condition 6.4, conduct a PM source test according to requirements set out in Section 6.
 - 6.2. Take corrective action or conduct a PM source test, in accordance with Condition 6.1, if any Method 9 observation under Condition 2.2 results in an 18-minute average opacity greater than
 - a. 20 percent for an emissions unit with an exhaust stack diameter that is equal to or greater than 18 inches; or
 - b. 15 percent for an emissions unit with an exhaust stack diameter that is less than 18 inches, unless the Department has waived this requirement in writing.
 - 6.3. During each one-hour PM source test run under Condition 6.1.b, observe the emissions unit exhaust for 60 minutes in accordance with Method 9 and calculate the highest 18-consecutive-minute average opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.
 - 6.4. The PM source test requirements in Condition 6.1.b are waived for an emissions unit if
 - a. a source test on that unit has shown compliance with the PM standard during this permit term; or

- b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations (as described in Condition 2.2) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 6.2.

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

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

- 7.1. Keep records of the results of any source test and visible emissions observations conducted under Condition 6.

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

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

- 8.1. Notify the Department of any Method 9 observation results that are greater than the threshold of either Condition 6.2.a or Condition 6.2.b within 30 days of the end of the month in which the observations occurred. Include the dates, EU ID(s), and results when an observed 18-minute average opacity was greater than an applicable threshold in Condition 6.2.

- 8.2. In each operating report under Condition 71, include:

- a. a summary of the results of any PM source test and visible emissions observations conducted under Condition 6; and
- b. copies of any visible emissions observation results greater than the thresholds of Condition 6.2, if they were not already submitted.

- 8.3. Report in accordance with Condition 70:

- a. anytime the results of a PM source test exceed the PM emissions standard in Condition 5; or
- b. if the requirements under Condition 6.1 were triggered and the Permittee did not comply on time with either Condition 6.1.a or 6.1.b. Report the deviation within 24 hours of the date compliance with Condition 6.1 was required.

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

Liquid Fuel-Burning Boilers and Heaters

9. PM Monitoring. The Permittee shall conduct source tests on EU IDs 1, 2, 3a, and 4 to determine the concentration of PM in the exhaust of each emissions unit as follows:

- 9.1. If the result of any Method 9 observation conducted under Condition 12.3 for any of EU IDs 1, 2, 3a, and 4 exceeds the standard in Condition 1, the Permittee shall, within six months of that Method 9 observation, either:

- a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 CFR 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than an 18-minute average opacity of 20 percent; or
 - b. except as exempted under Condition 9.3, conduct a PM source test according to the requirements in Section 6.
- 9.2. During each one-hour PM source test run under Condition 9.1, 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.
- 9.3. The PM source test requirement in Condition 9.1 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 2.2) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 9.1.

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

- 10. PM Recordkeeping.** The Permittee shall keep records of the results of any source test and visible emissions observations conducted under Condition 9.

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

- 11. PM Reporting.** The Permittee shall report as follows:

- 11.1. Notify the Department of any Method 9 observation results that are greater than the threshold of Condition 9.1 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 9.1.
- 11.2. In each operating report required by Condition 71, include:
 - a. a summary of the results of any source test and visible emissions observations conducted under Condition 9; and
 - b. copies of any visible emissions observation results greater than the threshold in Condition 9.1, if they were not already submitted.
- 11.3. Report in accordance with Condition 70 any time the results of a source test exceed the PM emission standard in Condition 5.

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

Visible Emissions & PM MR&R

Dual Fuel-Burning Equipment

12. The Permittee shall monitor, record, and report the monthly hours of operation of EU IDs 1, 2, 3a, and 4 when operating on a back-up liquid fuel.
 - 12.1. For any of EU IDs 1, 2, 3a, and 4 that does not exceed 400 hours of operations per calendar year on a back-up liquid fuel, monitoring of compliance for visible emissions and PM shall consist of an annual compliance certification under Condition 72 based on reasonable inquiry.
 - 12.2. For any of EU IDs 1, 2, 3a, and 4, notify the Department and begin monitoring the affected emissions unit in accordance with Condition 12.3 no later than 7 days after exceeding 400 hours on a back-up liquid fuel; or for an emissions unit with intermittent back-up fuel use, during the next scheduled operation on back-up liquid fuel. If within seven days of exceeding 400 hours on diesel fuel, the unit is switched to natural gas, then conduct visible emissions at the time of the next scheduled testing for diesel firing capability.
 - 12.3. When required to do so by Condition 12.2, observe the emissions unit exhaust, following 40 CFR 60, Appendix A-4 Method 9, for 18 minutes to obtain 72 consecutive 15-second opacity observations.
 - a. If the observation exceeds the standard in Condition 1, monitor as described in Condition 9.
 - b. If the observation does not exceed the standard in Condition 1, no additional monitoring is required until the cumulative hours of operation exceed each subsequent multiple of 400 hours on back-up liquid fuel during a calendar year.⁴
 - 12.4. Keep records and report in accordance with Conditions 3, 4, 10, and 11.
 - 12.5. Report under Condition 70 if the Permittee fails to comply with any of Conditions 12.2, 12.3, or 12.4.

[Conditions 17.1 & 17.2, Minor Permit AQ0486MSS01, 2/24/2006]
[18 AAC 50.040(j)(4), 50.326(j)(3), & 50.346(c)]
[40 CFR 71.6(a)(3)(i) through (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, 2, 3a, 4, 17, 22, 28 through 30, 35, 39, 42 through 45, and 52 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)]

⁴ If the requirement to monitor is triggered more than once in a calendar month, only one Method-9 observation is required to be conducted by the stated deadline for that month.

Sulfur Compound MR&R

Fuel Oil⁵ (EU IDs 17, 22, 30, 35, 39, 42 through 45, 52, and 1, 2, 3a, and 4 when operating on liquid fuel)

- 13.1. For EU IDs 17, 22, 30, 35, 52, and EU IDs 1, 2, 3a, and 4 when operating on liquid fuel, ensure compliance with Condition 13 by complying with Condition 17.1.

[Condition 5, Minor Permit AQ0486MSS01, 2/24/2006]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

- a. Comply with the monitoring, recordkeeping, and reporting requirements in Conditions 17.3, 17.5, and 17.6.

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

- 13.2. For EU IDs 39 and 42 through 45, compliance with Condition 20 shall demonstrate compliance with Condition 13.

[Condition 9, Minor Permit AQ0486MSS02, 8/25/2010]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

- a. Comply with the monitoring, recordkeeping, and reporting requirements in Conditions 20.3 through 20.5.

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

- 13.3. If a shipment of fuel contains greater than 0.75 percent sulfur by weight ($\text{wt}\%S_{\text{fuel}}$), the Permittee shall calculate SO₂ emissions in parts per million (ppm) using either the SO₂ material balance calculation in Section 12 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)]

- 13.4. The Permittee shall report as follows:

- a. If SO₂ emissions calculated under Condition 13.3 exceed 500 ppm, the Permittee shall report in accordance with Condition 70. When reporting under this condition, include the calculation under Condition 13.3.
- b. The Permittee shall include in the operating report required by Condition 71 for each month covered by the report:
- (i) a list of the fuel grades received at the stationary source;
 - (ii) for any fuel received with a fuel sulfur content greater than 0.5 $\text{wt}\%S_{\text{fuel}}$, the fuel sulfur content of the shipment; and

⁵ *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.

- (iii) for any fuel received with a sulfur content greater than 0.75 wt% S_{fuel} , the SO₂ emissions in ppm calculated under Condition 13.3.

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

Fuel Gas (Gas fired units and EU IDs 1, 2, 3a, and 4 while operating on fuel gas)

- 13.5. For gas fired units and EU IDs 1, 2, 3a, and 4 while operating on fuel gas, ensure compliance with Condition 13 by complying with Condition 17.2.

[Condition 5, Minor Permit AQ0486MSS01, 2/24/2006]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

- a. Comply with the monitoring, recordkeeping, and reporting requirements in Conditions 17.4 and 17.6.

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

Preconstruction Permit ⁶ Requirements

- 14. Emergency Generator Hourly Limits.** Limit the operations of EU IDs 17, 22, and 30 to no more than 250 hours each in any 12 consecutive month period.

[Condition 6, Minor Permit AQ0486MSS01, 2/24/2006]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

- 14.1. Monitor and record the hours of operation for each occasion the engines operate.
14.2. Report using the operating report under Condition 71, the hours of operation for the twelve consecutive month period for the months covered in the operating report.

[Conditions 6.1 & 6.2, Minor Permit AQ0486MSS01, 2/24/2006]
[40 CFR 71.6(a)(3)]

- 14.3. Report in accordance with Condition 70 if a limit in Condition 14 is exceeded.

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

- 15. Boiler Distillate Oil Limits.** Limit the combined distillate fuel oil burned in EU IDs 1, 2, 3a, and 4 to no more than 500,000 gallons in any 12 consecutive month period.

[Condition 7, Minor Permit AQ0486MSS01, 2/24/2006]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

- 15.1. Monitor and record the combined monthly distillate oil burned in EU IDs 1, 2, 3a, and 4. Measure the distillate oil burned using an inline meter or tank level-based meter system in the tank(s) dedicated to the boilers.

⁶ *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.

- 15.2. Calculate the 12 month rolling total combined distillate oil burned for each month as follows:
- [Conditions 7.1 & 7.2, Minor Permit AQ0486MSS01, 2/24/2006]
[40 CFR 71.6(a)(3)]
- a. Except as provided in Condition 15.2.b, before submitting each semiannual operating report required under Condition 71 of this permit, calculate the combined distillate fuel burned for each 12 month period ending with a calendar month during the reporting period.
- b. If the combined distillate fuel burned is greater than 250,000 gallons for any 12 consecutive month period, then for every subsequent 12 month period, calculate the total distillate fuel burned by the end of the month following that 12 month period.
- [Conditions 7.2a & 7.2b, Minor Permit AQ0486MSS01, 2/24/2006]
- 15.3. Report using the operating report under Condition 71, the total distillate oil burned for each twelve consecutive month period ending during the time covered by the operating report.
- [Condition 7.3, Minor Permit AQ0486MSS01, 2/24/2006]
[40 CFR 71.6(a)(3)]
- 15.4. Report in accordance with Condition 70 if the limit in Condition 15 is exceeded.
- [40 CFR 71.6(a)(3) & 71.6(c)(6)]
- 16. Boiler Natural Gas Limits.** Limit the combined natural gas burned in EU IDs 1, 2, 3a, 4, 28, and 29 to no more than 1,000 million standard cubic feet in any 12 consecutive month period.
- [Condition 8, Minor Permit AQ0486MSS01, 2/24/2006]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]
- 16.1. Monitor and record the combined monthly natural gas burned in EU IDs 1, 2, 3a, 4, 28, and 29. Measure the natural gas burned using flow meters or measurement techniques and calculations approved by the Department⁷.
- 16.2. Calculate the 12 month rolling total combined natural gas burned for each month as follows:
- [Conditions 8.1 & 8.2, Minor Permit AQ0486MSS01, 2/24/2006]
[40 CFR 71.6(a)(3)]
- a. Except as provided in Condition 16.2.b, before submitting each semiannual operating report required under Condition 71 of this permit, calculate the combined natural gas for each 12 month period ending with a calendar month during the reporting period.

⁷ Any measurement techniques and calculations for natural gas monitoring must be added to the operating permit with a significant permit modification under 40 CFR 71.7(e)(3) before use.

- b. If the combined natural gas burned is greater than 500,000 standard cubic feet in any 12 consecutive month period, then for every subsequent 12 month period, calculate the total natural gas burned by the end of the month following that 12 month period.

[Conditions 8.2a & 8.2b, Minor Permit AQ0486MSS01, 2/24/2006]

- 16.3. Report using the operating report under Condition 71, the total natural gas burned for each twelve consecutive month period ending during the time covered by the operating report.

[Condition 8.3, Minor Permit AQ0486MSS01, 2/24/2006]
[40 CFR 71.6(a)(3)]

- 16.4. Report in accordance with Condition 70 if the limit in Condition 16 is exceeded.

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

17. Sulfur Limits.

[Condition 9, Minor Permit AQ0486MSS01, 2/24/2006]
[18 AAC 50.040(j) & 50.326(j)]

- 17.1. Limit the fuel sulfur content of the distillate fuel oil burned in the stationary source to no greater than 0.5 percent by weight by burning only No. 1 or No. 2 grade distillate oil.
- 17.2. Burn pipeline quality natural gas in the gas fired units. Pipeline quality gas means natural gas with total sulfur content not to exceed 12 grains per 100 standard cubic feet of gas.
- 17.3. For fuel oil, obtain a statement or receipt from the fuel supplier for each fuel shipment received that documents the fuel sulfur content or grade of fuel. If a statement or receipt is not available from the supplier, analyze a representative sample of the fuel after each shipment to determine the sulfur content using ASTM Method D 396-92 or D 975-94, or an alternative method approved by the Department⁸.
- 17.4. For natural gas fuel, state in each operating report required in Condition 71 whether all gas burned in the facility was gas received by pipeline.
- 17.5. Attach copies of the fuel sulfur content analyses, if required, to the operating report required by Condition 71.
- 17.6. Report as a permit deviation under Condition 70 whenever fuel combusted does not meet the requirements of Condition 17.1 or 17.2.

[Conditions 9.1 through 9.6, Minor Permit AQ0486MSS01, 2/24/2006]
[40 CFR 71.6(a)(1) & 71.6(a)(3)]

⁸ Any alternative method must be added to the operating permit with a significant permit modification under 40 CFR 71.7(e)(3) before use.

Ambient Air Quality Protection Requirements

18. To protect the annual average NO₂ ambient air quality standard, the Permittee shall:

[Condition 6, Minor Permit AQ0486MSS02, 8/25/2010]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

18.1. Stack Configuration:

[Condition 6.1, Minor Permit AQ0486MSS02, 8/25/2010]

a. Maintain the exhaust stack of EU ID 1 as a vertical release without a rain cap whenever EU ID 1 is operating. Exhaust stack of EU ID 1 may be covered when EU ID 1 is not operating.

[Condition 6.1a(ii), Minor Permit AQ0486MSS02, 8/25/2010]

b. For EU IDs 42 through 45

[Condition 6.1b, Minor Permit AQ0486MSS02, 8/25/2010]

(i) Install and maintain each exhaust stack as follows:

[Condition 6.1b(i), Minor Permit AQ0486MSS02, 8/25/2010]

(A) A release height that equals or exceeds

[Condition 6.1b(i)(A), Minor Permit AQ0486MSS02, 8/25/2010]

(1) 53 feet above grade;

(2) seven feet above the generator building roof; and

(3) two feet above the highest portion (penthouse) of the generator building.

[Conditions 6.1b(i)(A)(1) through 6.1b(i)(A)(3), Minor Permit AQ0486MSS02, 8/25/2010]

(B) Oriented at 60 degrees or more above the horizontal.

[Condition 6.1b(i)(B), Minor Permit AQ0486MSS02, 8/25/2010]

18.2. Operational Limits:

[Condition 6.2, Minor Permit AQ0486MSS02, 8/25/2010]

a. Comply with the existing owner requested limits currently described in Conditions 14 through 17; and

b. Comply with Condition 19.

[Conditions 6.2a & 6.2b, Minor Permit AQ0486MSS02, 8/25/2010]

Owner Requested Limits (ORLs) to Avoid Classification under PSD

19. To avoid classification as a Prevention of Significant Deterioration (PSD) major stationary source under 18 AAC 50.306 for oxides of nitrogen (NO_x) emissions, the Permittee shall limit the total NO_x emissions from EU IDs 42 through 45 to less than 250 tons per 12-month rolling period. For EU IDs 42 through 45:

[Condition 10, Minor Permit AQ0486MSS02, 8/25/2010]

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

- 19.1. Limit the combined hours of operation to no more than 2,400 hours per 12-month rolling period;
 - 19.2. Install, maintain and operate a dedicated metering device on each emission unit to measure hours of operation;
 - 19.3. At the end of each calendar month, record the monthly hours of operation for each emission unit;
 - 19.4. At the end of each June and December, calculate the total hours of operation for the 12-month rolling period by combining the hours of operation of each emission unit during the month with the monthly hours of operation of all the emission units from the previous 11 months;
 - 19.5. Report the monthly hours of operation for each emission unit, and the combined hours of operation of all the units for the preceding consecutive 11 calendar months in the operating report described under Condition 71.
 - 19.6. If the total hours of operation for the 12-month rolling period calculated in Condition 19.4 exceed 2,400 hours, submit an excess emission report to the Department as described under Condition 70.
[Conditions 10.1 through 10.6, Minor Permit AQ0486MSS02, 8/25/2010]
[40 CFR 71.6(a)(1) & 71.6(a)(3)]
- 20.** To avoid classification under 18 AAC 50.502(c)(3) for SO₂ emissions, the Permittee shall limit the total SO₂ emissions from EU IDs 39 and 42 through 45 to less than 10 tons per consecutive 12-month period as follows:
[Condition 11, Minor Permit AQ0486MSS02, 8/25/2010]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]
- 20.1. Burn only diesel fuel that complies with the applicable fuel sulfur requirements of Condition 32.5 in EU IDs 42 through 45.
 - 20.2. Burn only diesel fuel with a sulfur content not exceeding 0.05 percent by weight in EU ID 39.
 - 20.3. Monitor compliance with Conditions 20.1 and 20.2 by analyzing a representative sample of the fuel for each shipment to determine the sulfur content, measured in accordance with an appropriate methodology incorporated by reference within fuel specification standards ASTM D 396 92 or D 975 94, or an alternate method approved by the Department⁹. Alternatively, the Permittee may keep a certified statement or receipt from the fuel supplier for each fuel shipment received that documents the fuel sulfur content.

⁹ Any alternative method must be added to the operating permit with a significant permit modification under 40 CFR 71.7(e)(3) before use.

- 20.4. The Permittee shall certify in each operating report described under Condition 71 whether or not each shipment of diesel fuel burned in
[Conditions 11.1 through 11.4, Minor Permit AQ0486MSS02, 8/25/2010]
[40 CFR 71.6(a)(1) & 71.6(a)(3)]
- a. EU IDs 42 through 45 complies with Condition 20.1; and
 - b. EU ID 39 complies with Condition 20.2.
[Conditions 11.4a & 11.4b, Minor Permit AQ0486MSS02, 8/25/2010]
- 20.5. The Permittee shall report as described under Condition 70 if diesel fuel delivered to and burned in
[Condition 11.5, Minor Permit AQ0486MSS02, 8/25/2010]
[40 CFR 71.6(a)(3)]
- a. EU IDs 42 through 45 does not comply with Condition 20.1.
 - b. EU ID 39 contained more than 0.05 percent by weight sulfur.
[Conditions 11.5a & 11.5b, Minor Permit AQ0486MSS02, 8/25/2010]

Insignificant Emissions Units

21. 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:
- 21.1. **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)]
- 21.2. **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)]
- 21.3. **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)]
- 21.4. **General Monitoring, Recordkeeping, and Reporting (MR&R) for Insignificant Emissions Units.** The Permittee shall comply with the following:
- a. Submit the compliance certifications of Condition 72 based on reasonable inquiry;
 - b. Comply with the requirements of Condition 53; and

- c. Report in the operating report required by Condition 71 if an emissions unit has historically been classified as insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and current actual emissions have become greater than any of those thresholds.
- d. No other monitoring, recordkeeping or reporting is required for insignificant emissions units to demonstrate compliance with the emissions standards under Conditions 21.1, 21.2, and 21.3.

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

Emissions Units Located or Operating Within the Regional Haze Visibility Protection Area

22. For each significant emissions unit installed after the date this permit is issued, include a best estimate of the projected equipment life of the significant emissions unit if known in the first operating report required in Condition 71 after the emissions unit is installed.

[18 AAC 50.265(4)(B)]

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

[18 AAC 50.265(1)]

Section 4. Federal Requirements

40 CFR Part 60 New Source Performance Standards

Subpart A

24. New Source Performance Standards (NSPS) Subpart A Notification. Unless exempted by a specific subpart, for any affected facility¹⁰ or existing facility¹¹ regulated under NSPS requirements in 40 CFR 60, the Permittee shall furnish the Administrator written notification or, if acceptable to both the Administrator¹² 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]

24.1. 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]

24.2. 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]

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

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

24.4. A notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during a performance test required by 40 CFR 60.8 in lieu of Method 9 observation data as

¹⁰ *Affected facility* means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 CFR 60.2.

¹¹ *Existing facility* means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in 40 CFR 60, and the construction or modification of which was commenced before the date of proposal of that standard; or any apparatus which could be altered in such a way as to be of that type, as defined in 40 CFR 60.2.

¹² For Section 4 of this permit, the Department defines *Administrator* to mean the EPA Administrator and the Department.

allowed by 40 CFR 60.11(e)(5). This notification shall be postmarked not less than 30 days prior to the date of the performance test.

[40 CFR 60.7(a)(7), Subpart A]

- 24.5. 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 60 days (or as soon as practicable) before construction of the replacements is commenced, and including the following information:

[40 CFR 60.15(d), Subpart A]

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

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

25. **NSPS Subpart A Startup, Shutdown, & Malfunction Requirements.** Maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of EU IDs 3a, 4, 28, and 29, any malfunction of the air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for EU IDs 3a, 4, 28, and 29 is inoperative.

[18 AAC 50.040(a)(1)]

[40 CFR 60.7(b), Subpart A]

26. **NSPS Subpart A Recordkeeping.** Any owner or operator subject to the provisions of 40 CFR 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurements, maintenance, reports, and records.

[18 AAC 50.040(a)(1)]

[40 CFR 60.7(f), Subpart A]

27. NSPS Subpart A Performance (Source) Tests. Conduct source tests according to Section 6 and as required in this condition on any affected facility.

[18 AAC 50.040(a)(1)]

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

[40 CFR 60.8(a), Subpart A]

- 27.2. Tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Administrator (1) specifies or approves, in specific cases, the use of a reference method with minor changes in methodology, (2) approves the use of an equivalent method, (3) approves the use of an alternative method the results of which he has determined to be adequate for indicating whether a specific source is in compliance, (4) waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Administrator's satisfaction that the affected facility is in compliance with the standard, or (5) approves shorter sampling times and smaller sample volumes when necessitated by process variables or other factors.

[40 CFR 60.8(b), Subpart A]

- 27.3. Tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

[40 CFR 60.8(c), Subpart A]

- 27.4. Provide the Administrator at least 30 days prior notice of any performance test, except as specified under other subparts, to afford the Administrator the opportunity to have an observer present. If after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting the scheduled performance test, the Permittee shall notify the Administrator as soon as possible of any delay in the original test date, either by providing at least 7 days prior notice of the rescheduled date of the performance test, or by arranging a rescheduled date with the Administrator by mutual agreement.

[40 CFR 60.8(d), Subpart A]

27.5. Provide or cause to be provided, performance testing facilities as follows:

- a. Sampling ports adequate for test methods applicable to such facility. This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
- b. Safe sampling platform(s),
- c. Safe access to sampling platform(s), and
- d. Utilities for sampling and testing equipment.

[40 CFR 60.8(e), Subpart A]

27.6. Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method.

[40 CFR 60.8(f), Subpart A]

- a. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.
- b. Contents of report (electronic or paper submitted copy). Unless otherwise specified in a relevant standard or test method, or as otherwise approved by the Administrator in writing, the report for a performance test shall include the elements identified in 40 CFR 60.8(f)(2)(i) through (vi).

[40 CFR 60.8(f)(1) & (2), Subpart A]

27.7. The performance testing shall include a test method performance audit (PA) during the performance test in accordance with 40 CFR 60.8(g).

[40 CFR 60.8(g), Subpart A]

27.8. Unless otherwise specified in the applicable subpart, each test location must be verified to be free of cyclonic flow and evaluated for the existence of emission gas stratification and the required number of sampling traverse points. If other procedures are not specified in the applicable subpart to the regulations, use the appropriate procedures in Method 1 to check for cyclonic flow and Method 7E to evaluate emission gas stratification and selection of sampling points.

[40 CFR 60.8(h), Subpart A]

27.9. Whenever the use of multiple calibration gases is required by a test method, performance specification, or quality assurance procedure in a 40 CFR 60 standard or appendix, Method 205 of 40 CFR part 51, appendix M, "Verification of Gas Dilution Systems for Field Instrument Calibrations," may be used.

[40 CFR 60.8(i), Subpart A]

28. NSPS Subpart A Good Air Pollution Control Practice. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU IDs 3a, 4, 28, and 29 including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The Administrator will determine whether acceptable operating and maintenance procedures are being used based on information available, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of EU IDs 3a, 4, 28, and 29.

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

29. NSPS Subpart A Credible Evidence. For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of the standards set forth in Condition 31, nothing in 40 CFR Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU IDs 3a, 4, 28, and 29 would have been in compliance with applicable requirements of 40 CFR Part 60 if the appropriate performance or compliance test or procedure had been performed.

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

30. NSPS Subpart A Concealment of Emissions. The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Conditions 31 and 32. 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 Dc

31. NSPS Subpart Dc Applicability. For EU IDs 3a, 4, 28, and 29, comply with the following applicable requirements of NSPS Subpart Dc.

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

NSPS Subpart Dc Sulfur Dioxide and Particulate Matter Standards

31.1. For EU IDs 3a and 4, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur.

[40 CFR 71.6(a)(1)]
[40 CFR 60.42c(d), Subpart Dc]

- 31.2. Compliance with the fuel oil sulfur limit under Condition 31.1 may be determined based on a certification from the fuel supplier, as described under Condition 31.12, as applicable.

[40 CFR 71.6(a)(3)]
[40 CFR 60.42c(h), Subpart Dc]

- 31.3. The fuel oil sulfur limit in Condition 31.1 applies at all times, including periods of startup, shutdown, and malfunction.

[40 CFR 71.6(a)(1)]
[40 CFR 60.42c(i), Subpart Dc]

- 31.4. For EU IDs 3a and 4, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

- 31.5. The opacity standard under Condition 31.4 applies at all times, except during periods of startup, shutdown, or malfunction.

[40 CFR 71.6(a)(1)]
[40 CFR 60.43c(c) & 60.43c(d), Subpart Dc]

NSPS Subpart Dc Compliance and Performance Test Methods and Procedures

- 31.6. The owner or operator of an affected facility subject to the opacity standard under Condition 31.4 shall conduct performance tests as requested by the Administrator, to determine compliance with the standards using the following procedures and reference methods.

[40 CFR 71.6(a)(3)]
[40 CFR 60.45c(a), Subpart Dc]

- a. Method 9 of appendix A-4 of 40 CFR 60 shall be used for determining the opacity of stack emissions.

[40 CFR 60.45c(a)(8), Subpart Dc]

NSPS Subpart Dc Emission Monitoring for Particulate Matter

- 31.7. The owner or operator of an affected facility shall comply with either Condition 31.7.a, 31.7.b, or 31.7.c. The observation period for Method 9 of appendix A-4 of 40 CFR 60 performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation.

[40 CFR 71.6(a)(3)]
[40 CFR 60.47c(a), Subpart Dc]

- a. Except as provided in Conditions 31.7.b and 31.7.c, the owner or operator shall conduct subsequent Method 9 of appendix A-4 of 40 CFR 60 performance tests using the procedures in Condition 31.7 according to the applicable schedule in Conditions 31.7.a(i) through 31.7.a(iv), as determined by the most recent Method 9 of appendix A-4 of 40 CFR 60 performance test results.

[40 CFR 60.47c(a)(1), Subpart Dc]

- (i) If no visible emissions are observed, a subsequent Method 9 of appendix A-4 of 40 CFR 60 performance test must be completed within 12 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later;
- (ii) If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to 5 percent, a subsequent Method 9 of appendix A-4 of 40 CFR 60 performance test must be completed within 6 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later;
- (iii) If the maximum 6-minute average opacity is greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 of appendix A-4 of 40 CFR 60 performance test must be completed within 3 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later; or
- (iv) If the maximum 6-minute average opacity is greater than 10 percent, a subsequent Method 9 of appendix A-4 of 40 CFR 60 performance test must be completed within 45 calendar days from the date that the most recent performance test was conducted.

[40 CFR 60.47c(a)(1)(i) through (iv), Subpart Dc]

- b. If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 of appendix A-4 of 40 CFR 60 performance test, the owner or operator may, as an alternative to performing subsequent Method 9 of appendix A-4 of 40 CFR 60 performance tests, elect to perform subsequent monitoring using Method 22 of appendix A-7 of 40 CFR 60 according to the procedures specified in Conditions 31.7.b(i) and 31.7.b(ii).

[40 CFR 60.47c(a)(2), Subpart Dc]

- (i) The owner or operator shall conduct 10 minute observations (during normal operation) each operating day the affected facility fires fuel for which an opacity standard is applicable using Method 22 of appendix A-7 of 40 CFR 60 and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period (i.e., 30 seconds per 10 minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10 minute observation, immediately conduct a 30 minute observation. If the sum of the occurrence of visible emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30 minute period), the owner or operator shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30 minute observation (i.e., 90 seconds) or conduct a new Method 9 of appendix A-4 of 40 CFR 60 performance test using the procedures in Condition 31.7 within 45 calendar days according to the requirements in Condition 31.6.a.
- (ii) If no visible emissions are observed for 10 operating days during which an opacity standard is applicable, observations can be reduced to once every 7 operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed.

[40 CFR 60.47c(a)(2)(i) & (ii), Subpart Dc]

- c. If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 of appendix A-4 of 40 CFR 60 performance test, the owner or operator may, as an alternative to performing subsequent Method 9 of appendix A-4 performance tests, elect to perform subsequent monitoring using a digital opacity compliance system according to a site-specific monitoring plan approved by the Administrator. The observations shall be similar, but not necessarily identical, to the requirements in Condition 31.7.b. For reference purposes in preparing the monitoring plan, see OAQPS “Determination of Visible Emission Opacity from Stationary Sources Using Computer-Based Photographic Analysis Systems.” This document is available from the U.S. Environmental Protection Agency (U.S. EPA); Office of Air Quality and Planning Standards; Sector Policies and Programs Division; Measurement Policy Group (D243-02), Research Triangle Park, NC 27711. This document is also available on the Technology Transfer Network (TTN) under Emission Measurement Center Preliminary Methods.

[40 CFR 60.47c(a)(3), Subpart Dc]

NSPS Subpart Dc Reporting and Recordkeeping Requirements

- 31.8. The owner or operator of each affected facility subject to the opacity limits of Condition 31.4 shall submit to the Administrator the performance test data from the initial and any subsequent performance tests.

[40 CFR 71.6(a)(3)]
[40 CFR 60.48c(b), Subpart Dc]

- 31.9. In addition to the applicable requirements in 40 CFR 60.7, the owner or operator of an affected facility subject to the opacity limits in Condition 31.4 shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in Conditions 31.9.a through 31.9.c, as applicable to the visible emissions monitoring method used.

[40 CFR 71.6(a)(3)]
[40 CFR 60.48c(c), Subpart Dc]

- a. For each performance test conducted using Method 9 of appendix A-4 of 40 CFR 60, the owner or operator shall keep the records including the information specified in Conditions 31.9.a(i) through 31.9.a(iii).
- [40 CFR 60.48c(c)(1), Subpart Dc]
- (i) Dates and time intervals of all opacity observation periods;
 - (ii) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and
 - (iii) Copies of all visible emission observer opacity field data sheets;
- [40 CFR 60.48c(c)(1)(i) through (iii), Subpart Dc]
- b. For each performance test conducted using Method 22 of appendix A-4 of 40 CFR 60, the owner or operator shall keep the records including the information specified in Conditions 31.9.b(i) through 31.9.b(iv).
- [40 CFR 60.48c(c)(2), Subpart Dc]
- (i) Dates and time intervals of all visible emissions observation periods;
 - (ii) Name and affiliation for each visible emission observer participating in the performance test;
 - (iii) Copies of all visible emission observer opacity field data sheets; and
 - (iv) Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the owner or operator to demonstrate compliance with the applicable monitoring requirements.
- [40 CFR 60.48c(c)(2)(i) through (iv), Subpart Dc]
- c. For each digital opacity compliance system, the owner or operator shall maintain records and submit reports according to the requirements specified in the site-specific monitoring plan approved by the Administrator.
- [40 CFR 60.48c(c)(3), Subpart Dc]

- 31.10. The owner or operator of each affected facility subject to the fuel oil sulfur limits under Condition 31.1 shall submit reports to the Administrator.
[40 CFR 71.6(a)(3)]
[40 CFR 60.48c(d), Subpart Dc]
- 31.11. The owner or operator of each affected facility subject to the fuel oil sulfur limits under Condition 31.1 shall keep records and submit reports as required under Condition 31.10, including the following information, as applicable.
[40 CFR 71.6(a)(3)]
[40 CFR 60.48c(e), Subpart Dc]
- a. Calendar dates covered in the reporting period.
[40 CFR 60.48c(e)(1), Subpart Dc]
- b. If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under Condition 31.12.a. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.
[40 CFR 60.48c(e)(11), Subpart Dc]
- 31.12. Fuel supplier certification shall include the following information:
[40 CFR 71.6(a)(3)]
[40 CFR 60.48c(f), Subpart Dc]
- a. For distillate oil:
[40 CFR 60.48c(f)(1), Subpart Dc]
- (i) The name of the oil supplier;
- (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and
- (iii) The sulfur content or maximum sulfur content of the oil.
[40 CFR 60.48c(f)(1)(i) through (iii), Subpart Dc]
- 31.13. For EU IDs 3a, 4, 28, and 29, except as provided under Conditions 31.14 and 31.15, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.
- 31.14. As an alternative to meeting the requirements of Condition 31.13, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in Condition 31.12 to demonstrate compliance with the SO₂ standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

31.15. As an alternative to meeting the requirements of Condition 31.13, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to NSPS Subpart Dc) at that property are natural gas, wood, distillate oil meeting the most current requirements in 40 CFR 60.42c to use fuel certification to demonstrate compliance with the SO₂ standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

[40 CFR 71.6(a)(3)]
[40 CFR 60.48c(g)(1) through (3), Subpart Dc]

31.16. The reporting period for the reports required under NSPS Subpart Dc is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

[40 CFR 71.6(a)(3)]
[40 CFR 60.48c(j), Subpart Dc]

Subpart III

32. NSPS Subpart III Applicability. For EU IDs 39 and 42 through 45, 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

32.1. EU IDs 42 through 45 must be certified to the following certification emission standards for new nonroad CI engines:

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

- a. NMHC + NO_x: 6.4 g/kW-hr
- b. CO: 3.5 g/kW-hr
- c. PM: 0.20 g/kW-hr

[Table 2, Appendix I to Part 1039]

32.2. For EU ID 39, comply with the following emission standards:

[40 CFR 71.6(a)(1)]
[40 CFR 60.4202(a)(2) & 60.4205(b), Subpart III]

- a. NMHC + NO_x: 4.0 g/kW-hr
- b. CO: 3.5 g/kW-hr
- c. PM: 0.20 g/kW-hr

[Table 3, Appendix I to Part 1039]

- 32.3. Owners and operators of emergency and non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests 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) & 60.4205(e), Subpart III]
- 32.4. Operate and maintain stationary CI ICE that achieve the emission standards as required in Conditions 32.1 and 32.2 over the entire life of the engine.
[40 CFR 71.6(a)(1)]
[40 CFR 60.4206, Subpart III]

NSPS Subpart III Fuel Requirements

- 32.5. Owners and operators of stationary CI ICE that use diesel fuel must 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

- 32.6. You must do all of the following, except as permitted under Condition 32.9:
[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 60.42011(a)(1) & (2), Subpart III]
- 32.7. You must comply with the emission standards in Conditions 32.1 and 32.2 by purchasing an engine certified to the emission standards in Conditions 32.1 and 32.2. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Condition 32.9.
[40 CFR 71.6(a)(3)(i)]
[40 CFR 60.4211(c), Subpart III]
- 32.8. For EU ID 39, you must operate the emergency stationary ICE according to the requirements in Conditions 32.8.a through 32.8.c. In order for the engine to be considered an emergency stationary ICE under NSPS Subpart III, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Conditions 32.8.a through 32.8.c, is prohibited. If you do not operate the engine according to the requirements in Conditions 32.8.a through 32.8.c, the engine will not be considered an emergency engine under NSPS Subpart III and must meet all requirements for non-emergency engines.
[40 CFR 71.6(a)(3)(i)]
[40 CFR 60.4211(f), Subpart III]

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

[40 CFR 60.4211(f)(1), Subpart III]

- b. You may operate your emergency stationary ICE for the purpose specified in Condition 32.8.b(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 32.8.c counts as part of the 100 hours per calendar year allowed by this paragraph.

[40 CFR 60.4211(f)(2), Subpart III]

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

[40 CFR 60.4211(f)(2)(i), Subpart III]

- c. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition 32.8.b. Except as provided in Condition 32.8.c(i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

- (i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions in 40 CFR 60.4211(f)(3)(i)(A) through (E) are met.

[40 CFR 60.4211(f)(3)(i), Subpart III]

- 32.9. 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)(i)]

[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]

NSPS Subpart III Testing Requirements

- 32.10. 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)(i)]
[40 CFR 60.4212, Subpart III]

NSPS Subpart III Reporting Requirements

- 32.11. For EU ID 39, if you own or operate an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates for the purpose specified in Condition 32.8.c(i), you must submit an annual report according to the requirements in Conditions 32.11.a through 32.11.c.

[40 CFR 71.6(a)(3)(iii)]
[40 CFR 60.4214(d), Subpart III]

- a. The report must contain the information in 40 CFR 60.4214(d)(1)(i) through (iv) and (vii).
- b. Annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.
- c. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (<https://cdx.epa.gov/>). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in 40 CFR 60.4. Beginning on February 26, 2025, submit annual report electronically according to 40 CFR 60.4214(g).

[40 CFR 60.4214(d)(1) through (3), Subpart III]

40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

Subparts A & M

33. 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 63 National Emission Standards for Hazardous Air Pollutants

Subpart A

34. For EU ID 52, comply with the applicable requirements of 40 CFR 63 Subpart A in accordance with the provisions for applicability of Subpart A in NESHAP Subpart JJJJJ, Table 8.

[18 AAC 50.040(c)(1), 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.11235 & Table 8, Subpart JJJJJ]

Subpart ZZZZ

35. **NESHAP Subpart ZZZZ Applicability.** For EU IDs 17, 22, 30, 35, 39, and 42 through 45, 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)(2), Subpart ZZZZ]

- 35.1. For EU IDs 39 and 42 through 45, meet the requirements of 40 CFR 63 by meeting the requirements of 40 CFR part 60 Subpart IIII. No further requirements apply for such engines under 40 CFR 63.

[40 CFR 63.6590(c), Subpart ZZZZ]

- 35.2. For EU IDs 17, 22, 30, and 35, the emergency stationary RICE listed in Condition 35.2.a are not subject to NESHAP Subpart ZZZZ. The stationary RICE must meet the definition of an emergency stationary RICE in 40 CFR 63.6675, which includes operating according to the provisions specified in 40 CFR 63.6640(f).

[40 CFR 63.6585(f), Subpart ZZZZ]

- a. Existing institutional emergency stationary RICE located at an area source of HAP emissions that do not operate to supply power as part of a financial arrangement with another entity.

[40 CFR 63.6585(f)(3), Subpart ZZZZ]

Subpart JJJJJ

36. **NESHAP Subpart JJJJJ Applicability.** For EU IDs 1, 2, 3a, 4, and 52, 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]

Subpart JJJJJJ Work Practice Standards and Management Practices

36.1. For EU ID 52, comply with the following:

- a. Conduct a tune-up of the boiler every 5 years as specified in Condition 36.3.b.

[40 CFR 63.11201(b) & Table 2, Item 12; Subpart JJJJJJ]

Subpart JJJJJJ General Compliance Requirements

- b. For EU ID 52, 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 63.11205(a), Subpart JJJJJJ]

Subpart JJJJJJ Initial Compliance Requirements

36.2. For EU IDs 1, 2, 3a, 4, and 52, comply with the following:

- a. 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 JJJJJJ or the boiler becoming subject to Subpart JJJJJJ, 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 36.3.f.

[40 CFR 71.6(a)(3)]

[40 CFR 63.11210(i), Subpart JJJJJJ]

Subpart JJJJJJ Continuous Compliance Requirements

36.3. For EU ID 52, comply with the following:

- a. For affected sources subject to the work practice standard or the management practices of a tune-up, you must conduct a performance tune-up according to Condition 36.3.b and keep records as required in Condition 36.3.d 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.

- b. You must conduct a tune-up of the boiler every 5 years to demonstrate continuous compliance as specified in Conditions 36.3.b(i) through 36.3.b(vii). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.

[40 CFR 71.6(a)(1) & (3)]
[40 CFR 63.11223(a), (b) & (e), Subpart JJJJJJ]

- (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 36.3.b(vi)(A) and 36.3.b(vi)(B).

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

- (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.

[40 CFR 63.11223(b)(6)(i) & (ii), Subpart JJJJJJ]

- (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 JJJJJJ]

Subpart JJJJJ Notification, Reporting, and Recordkeeping Requirements

- c. You must prepare, by March 1, and submit to the delegated authority upon request, a 5-year compliance certification report as specified in Conditions 36.3.c(i) and 36.3.c(ii).

[40 CFR 71.6(a)(3)]
[40 CFR 63.11225(b), Subpart JJJJJ]

- (i) Company name and address.
- (ii) 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]

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

- d. You must maintain the records specified in Conditions 36.3.d(i) through 36.3.d(iv).

[40 CFR 71.6(a)(3)]
[40 CFR 63.11225(c), Subpart JJJJJ]

- (i) 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.
- (ii) You must keep records to document conformance with the work practices and management practices required by Condition 36.3.b as specified in Condition 36.3.d(ii)(A).

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

- (A) 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.

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

- (iii) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.
- (iv) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in Condition 36.1.b, 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]

- e. 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)]

[40 CFR 63.11225(d), Subpart JJJJJ]

- f. 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 JJJJJ, in the boiler becoming subject to NESHAP Subpart JJJJJ, or in the boiler switching out of NESHAP Subpart JJJJJ 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 JJJJJ or no longer being subject to NESHAP Subpart JJJJJ, 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:

[40 CFR 71.6(a)(3)]

[40 CFR 63.11225(g), Subpart JJJJJ]

- (i) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice.
- (ii) The date upon which the fuel switch, physical change, or permit limit occurred.

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

40 CFR Part 82 Protection of Stratospheric Ozone

Subparts F, G, & H

- 37. **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]

- 38. 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]

- 39. 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

- 40.** 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)]

- 40.1. 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]

- 41.** 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)]

- 42.** 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 and the Department of the intended construction or reconstruction. The notification must be submitted in accordance with the procedures in 40 CFR 63.9(b).

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

Section 5. General Conditions

Standard Terms and Conditions

43. 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)]
44. 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)]
45. 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)]
46. **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]
47. **Assessable Emissions.** For each period from July 1 through the following June 30, the Permittee shall pay to the Department an annual emission fee based on the stationary source's assessable emissions, as determined by the Department under 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit. The quantity for which fees will be assessed is the lesser of the stationary source's
- 47.1. potential to emit of 245.71 tpy; or
- 47.2. 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]

48. Assessable Emission Estimates. The Permittee shall comply as follows:

- 48.1. 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 47.2. 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/>.
- 48.2. 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.
- 48.3. If no estimate 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 47.1.

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

49. Good Air Pollution Control Practice (GAPCP). The Permittee shall do the following for EU IDs 1, 2, 17, 22, 30, and 35:

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

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

50. 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)]

51. 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)]

- 51.1. 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 51.1.a or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

51.2. The Permittee shall report according to Condition 53.3.

52. 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)]

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

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

53.1. **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 53.
- 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 53; or
 - (ii) the Department notifies the Permittee that it has found a violation of Condition 53.

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

- a. the date, time, and nature of all emissions complaints received;
- b. the name of the person or persons that complained, if known;
- c. a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 53; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

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

- a. With each operating report under Condition 71, 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 70.

54. 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 standard¹³ listed in Condition 31, 32, or 37 (refrigerants),

- 54.1. take all reasonable steps to minimize levels of emissions that exceed the standard, and
- 54.2. report in accordance with Condition 70; 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

55. Open Burning. If open burning is conducted at this stationary source, comply with the requirements of 18 AAC 50.065.

- 55.1. 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.
- 55.2. Include this condition in the annual certification required under Condition 72.

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

¹³ As defined in 18 AAC 50.990(106), the term “*technology-based emission standard*” means a best available control technology (BACT) standard; a lowest achievable emission rate (LAER) standard; a maximum achievable control technology (MACT) standard established under 40 CFR 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

Section 6. General Source Testing and Monitoring Requirements

- 56. 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)]

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

[18 AAC 50.220(b)]

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

57.2. 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.

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

58.1. 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]

58.2. 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]

58.3. 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]

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

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

58.5. 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]

- 58.6. 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]
- 58.7. 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]
- 59. 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)]
- 60. Test Exemption.** Compliance with Conditions 62, 63 and 64 is not required for the Method 9 Plan (Condition 2.2).
- [18 AAC 50.345(a)]
- 61. 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)]
- 62. Test Plans.** Except as provided in Condition 60, 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 56 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)]
- 63. Test Notification.** Except as provided in Condition 60, 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)]
- 64. Test Reports.** Except as provided in Condition 60, 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 67. 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)]

- 65. Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 5 and 21.2, 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

66. Keep all records required by this permit for at least five years after the date of collection, including:
- 66.1. Copies of all reports and certifications submitted pursuant to this section of the permit; and
 - 66.2. 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 sampling and analyses;
 - e. the analytical techniques or methods used in the analyses;
 - f. the results of such analyses; and,
 - g. the operating conditions that existed 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

67. **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.
- 67.1. 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)]

68. 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.

68.1. 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)]

69. 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)]

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

70.1. **Excess Emissions Reporting.** Except as provided in Condition 53, 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 70.1.d.
- d. Report all other excess emissions not described in Conditions 70.1.a, 70.1.b, and 70.1.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 71 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)]

- 70.2. **Permit Deviations Reporting.** For permit deviations that are not “excess emissions,” as defined under 18 AAC 50.990:
- a. Report according to the required deadline for failure to monitor, as specified in other applicable conditions of this permit (Conditions 4.3.b and 8.3.b).
 - b. Report all other permit deviations within 30 days after the end of the month during which the deviation occurred or as part of the next routine operating report in Condition 71 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)]

- 70.3. **Reporting Instructions.** When reporting either excess emissions or permit deviations, the Permittee shall report using the Department’s online form for all such submittals. The form can be found at the Division of Air Quality’s Air Online Services (AOS) system webpage, <http://dec.alaska.gov/applications/air/airtoolsweb>, using the Permittee Portal option. Alternatively, upon written Department approval, the Permittee may submit the form contained in Section 13 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department’s Standard Permit Conditions webpage found at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

[18 AAC 50.235(a)(2), 50.240(c), 50.326(j)(3), 50.346(b)(2) & (3), & 50.270(a) through (c)]

71. **Operating Reports.** During the life of this permit¹⁴, the Permittee shall submit to the Department an operating report in accordance with Conditions 67 and 68 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.

- 71.1. 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.
- 71.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 71.1, 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

¹⁴ *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
- 71.3. When excess emissions or permit deviation reports have already been reported under Condition 70 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.
- 71.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.2.e, 6.2, and 9.1 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.
- 71.5. **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)]
72. **Annual Compliance Certification.** Each year by March 31, compile and submit to the Department an annual compliance certification report according to Condition 68.
- 72.1. 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.
- 72.2. **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.

72.3. 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)]

73. 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:

73.1. **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.

73.2. **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.

73.3. For reporting under Condition 73.2, the Permittee shall report the annual emissions and the required data elements under Condition 73.4 every third year for the previous calendar year as scheduled by the EPA.¹⁵

73.4. For each emissions unit and the stationary source, include in the report the required data elements¹⁶ 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>

73.5. 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)]

¹⁵ 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.).

¹⁶ 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.

[40 CFR 51.15, 51.30(a)(1) & (b)(1), & Appendix A to 40 CFR 51 Subpart A]

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

74.1. For the purposes of reporting actual or assessable emissions under any requirement of this permit, the Permittee shall use consistent pollutant-specific emission factors and calculation methods for all reporting requirements.

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

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

75.1. **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 71 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 the Department 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)]

75.2. **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)]

Section 8. Permit Changes and Renewal

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

- 76.1. 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;
- 76.2. The information shall be submitted as follows, which is in EPA's order of preference for receiving air permitting documents: (1) to the EPA's CDX and CEDRI online reporting system accessible via cdx.epa.gov, (2) as an email attachment to the EPA's air permits mailbox (R10_Air_Permits@epa.gov), or (3) as a hardcopy by mail (only if absolutely necessary) to the Part 70 Operating Permit Program, US EPA Region 10, Air Permits and Toxics Branch, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188;
- 76.3. 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
- 76.4. 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)]

77. 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)]

78. 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:

- 78.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 78.2. 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;
- 78.3. The change shall not qualify for the shield under 40 CFR 71.6(f);

78.4. 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)]

79. Operational Flexibility. CAA Section 502(b)(10)¹⁷ 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.

79.1. For each such change, the notification required by Condition 79 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.

79.2. The permit shield described in 40 CFR 71.6(f) shall not apply to any change made pursuant to Condition 79.

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

80. Permit Renewal. To renew this permit, the Permittee shall submit to the Department¹⁸ 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)]

¹⁷ 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.

¹⁸ Submit permit applications to the Permit Intake Clerk email address at dec.aq.airreports@alaska.gov. If email is unavailable, submit one certified paper copy to the Department's Anchorage office. The current address is: Air Permit Intake Clerk, ADEC, 555 Cordova Street, Anchorage, AK 99501.

Section 9. Compliance Requirements

General Compliance Requirements

- 81.** Compliance with permit terms and conditions is considered to be compliance with those requirements that are
- 81.1. included and specifically identified in the permit; or
 - 81.2. determined in writing in the permit to be inapplicable.
- [18 AAC 50.326(j)(3) & 50.345(a) & (b)]
- 82.** 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
- 82.1. an enforcement action;
 - 82.2. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or
 - 82.3. denial of an operating permit renewal application.
- [18 AAC 50.040(j), 50.326(j) & 50.345(a) & (c)]
- 83.** 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)]
- 84.** 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)]
- 85.** 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
- 85.1. enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
 - 85.2. have access to and copy any records required by the permit;
 - 85.3. inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
 - 85.4. 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)]

- 86.** 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.

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

- 87.1. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section; or
- 87.2. 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)]

88. 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
1, 2, 3a, & 4	40 CFR 63 Subpart JJJJJ	These units are exempt from Subpart JJJJJ because they only fire natural gas, or fire diesel no more than 48 hours per year.
28 & 29	40 CFR 63 Subpart JJJJJ	These units are exempt from Subpart JJJJJ because they only fire natural gas.
1, 2, 3a, & 4	40 CFR 60 Subpart Dc §§60.42c(a) through (c), and §§60.43c(a) and (b)	These units do not burn coal or wood.
17, 22, 30, & 35	40 CFR 60 Subpart III	This engine is an emergency, non-fire pump emission unit that has not been manufactured after April 1, 2006 and has not been modified or reconstructed after July 11, 2005, per §60.4200(a)(2).
39	40 CFR 60 Subpart III §60.4204	Affected unit is an emergency engine.
42 through 45	40 CFR 60 Subpart III §60.4205	Affected units are non-emergency engines.

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

Section 11. 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.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION AIR PERMITS PROGRAM - VISIBLE EMISSIONS OBSERVATION FORM									
									Page No.
Stationary Source Name		Type of Emission Unit		Observation Date		Start Time		End Time	
Emission Unit Location			Sec	0	15	30	45	Comments	
City			Min						
State		Zip		1					
Phone # (Key Contact)		Stationary Source ID Number		2					
Process Equipment		Operating Mode		3					
Control Equipment		Operating Mode		4					
Describe Emission Point/Location				5					
Height above ground level		Height relative to observer		Clinometer Reading		6			
Distance From Observer		Direction From Observer		8					
Start		End		Start		End			
Describe Emissions & Color				9					
Start		End		10					
Visible Water Vapor Present? If yes, determine approximate distance from the stack exit to where the plume was read				11					
No	Yes			12					
Point in Plume at Which Opacity Was Determined				13					
Describe Plume Background		Background Color		14					
Start		Start		15					
End		End		16					
Sky Conditions:				17					
Start		End		18					
Wind Speed		Wind Direction From		19					
Start		End		Start		End			
Ambient Temperature		Wet Bulb Temp		RH percent		20			
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read 2 Wind Direction From				21					
3 Observer Location 4 Sun Location 5 North Arrow 6 Other Stacks				22					
				23					
				24					
				25					
				26					
				27					
				28					
				29					
				30					
Range of Opacity				Minimum		Maximum			
I have received a copy of these opacity observations				Print Observer's Name					
Print Name:				Observer's Signature		Date			
Signature:						Observer's Affiliation:			
Title		Date		Certifying Organization		Date			
				Certified By:					
Data Reduction:									
Duration of Observation Period (minutes):				Duration Required by Permit (minutes):					
Number of Observations:				Highest Six-Minute Average Opacity (%):					
Number of Observations exceeding 20%:				Highest 18-Consecutive -Minute Average Opacity (%)(engines and turbines only)					
In compliance with six-minute opacity limit? (Yes or No)									
Average Opacity Summary:									
Set Number	Time		Opacity		Sum	Average	Comments		
	Start	End							

Section 12. SO₂ Material Balance Calculation¹⁹

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:

$$\begin{aligned}
 \text{A. } &= 31,200 \times (\text{wt}\% \mathbf{S}_{\text{fuel}}) = 31,200 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{B. } &= 0.148 \times (\text{wt}\% \mathbf{S}_{\text{fuel}}) = 0.148 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{C. } &= 0.396 \times (\text{wt}\% \mathbf{C}_{\text{fuel}}) = 0.396 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{D. } &= 0.933 \times (\text{wt}\% \mathbf{H}_{\text{fuel}}) = 0.933 \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{E. } &= \text{B} + \text{C} + \text{D} = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{F. } &= 20.9 - (\text{vol}\%_{\text{dry}} \mathbf{O}_{2, \text{exhaust}}) = 20.9 - \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{G. } &= (\text{vol}\%_{\text{dry}} \mathbf{O}_{2, \text{exhaust}}) \div \text{F} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{H. } &= 1 + \text{G} = 1 + \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \text{I. } &= \text{E} \times \text{H} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \\
 \mathbf{SO_2 \text{ concentration}} &= \text{A} \div \text{I} = \underline{\hspace{2cm}} \div \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ ppm}
 \end{aligned}$$

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 is obtained pursuant to Condition 13.1. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (**vol%*dry*_{O₂}, 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 emissions unit load used in the calculation.

Enter all of the data in percentages without dividing the percentages by 100. For example, if **wt%*S*_{fuel}** = 1.0%, then enter 1.0 into the equations not 0.01 and if **vol%*dry*_{O₂}, exhaust** = 3.00%, then enter 3.00, not 0.03.

[18 AAC 50.346(c)]

¹⁹ Revised as of November 7, 2020

Section 13. ADEC Notification Form²⁰

<u>Providence Alaska Medical Center</u>	<u>AQ0486TVP04</u>
Stationary Source (Facility) Name	Air Quality Permit Number
<u>Providence Health System - Washington Inc.</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 COBC²¹, CO²², or Settlement Agreement – Complete Section 2 and Certify

²⁰ Revised as of July 22, 2020.
²¹ Compliance Order By Consent
²² 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 67.)*

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

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

[18 AAC 50.346(b)(3)]