

# DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## AIR QUALITY OPERATING PERMIT

Permit No. AQ0059TVP04

Issue Date: [Public Comment - March 12, 2026]

Expiration Date: [Five Years]

The Alaska Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **Hilcorp Alaska, LLC**, for the operation of the **Swanson River Field**.

The Swanson River Field and the Cook Inlet Onshore Drilling and Well Testing Program are considered one stationary source for purposes of determining classification under 18 AAC 50.326(a) and applicability with the modification requirements of 18 AAC 50.302 and 50.502.

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

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

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

All currently applicable stationary source-specific terms and conditions of Air Quality Control Permit to Operate No. 9423-AA009 and Operating Permit Nos. 059TVP01 Revision 1 and 061TVP01 Revision 2 have been incorporated into this operating permit.

Upon effective date of this permit, Operating Permit No. AQ0059TVP03 Revision 2 expires.

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

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James R. Plosay, Manager  
Air Permits Program

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## Abbreviations and Acronyms<sup>1</sup>

2SLB.....	2 stroke lean burn	MMBtu/hr .....	million British thermal units per hour
AAC.....	Alaska Administrative Code	MMscf.....	million standard cubic feet
ADEC .....	Alaska Department of Environmental Conservation	MR&R.....	monitoring, recordkeeping, and reporting
Administrator.....	EPA and the Department.	NAICS.....	North American Industrial Classification System
AOS .....	Air Online Services	NESHAP .....	National Emission Standards for Hazardous Air Pollutants [as contained in 40 C.F.R. 61 and 63]
AS.....	Alaska Statutes	NH <sub>3</sub> .....	ammonia
ASTM.....	American Society for Testing and Materials	NO <sub>x</sub> .....	nitrogen oxides
BACT .....	best available control technology	NSPS .....	New Source Performance Standards [as contained in 40 C.F.R. 60]
CBI .....	confidential business information	O <sub>2</sub> .....	oxygen
CDX.....	Central Data Exchange	OGI .....	optical gas imaging
CEDRI .....	Compliance and Emissions Data Reporting Interface	Pb .....	lead
C.F.R. ....	Code of Federal Regulations	PM.....	particulate matter
CAA or The Act .	Clean Air Act	PM <sub>10</sub> .....	particulate matter less than or equal to a nominal 10 microns in diameter
CO .....	carbon monoxide	PM <sub>2.5</sub> .....	particulate matter less than or equal to a nominal 2.5 microns in diameter
CO <sub>2e</sub> .....	CO <sub>2</sub> -equivalent	ppm .....	parts per million
CROMERR.....	Cross-Media Electronic Reporting Rule	ppmv, ppmvd .....	parts per million by volume on a dry basis
Department .....	Alaska Department of Environmental Conservation	PSD .....	prevention of significant deterioration
dscf .....	dry standard cubic foot	PTE .....	potential to emit
EPA .....	US Environmental Protection Agency	RICE .....	reciprocating internal combustion engine
ERT .....	Electronic Reporting Tool	SIC. ....	Standard Industrial Classification
EU.....	emissions unit	SIP.....	State Implementation Plan
EU ID .....	emissions unit identification	SPC .....	Standard Permit Condition
GAPCP .....	Good Air Pollution Control Practice	SO <sub>2</sub> .....	sulfur dioxide
GHG .....	Greenhouse Gas	TPY .....	tons per year
gr/dscf.....	grain per dry standard cubic foot (1 pound = 7000 grains)	VOC .....	volatile organic compound [as defined in 40 C.F.R. 51.100(s)]
HAPs .....	hazardous air pollutants [as defined in AS 46.14.990]	vol% .....	volume percent
Hp .....	horsepower	wt% <sub>fuel</sub> .....	weight percent of sulfur in fuel
MACT .....	maximum achievable control technology [as defined in 40 C.F.R. 63]		

<sup>1</sup> Other abbreviations not in this permit can be found at <https://dec.alaska.gov/air/air-permit/air-permit-acronyms>.

**Section 1. Stationary Source Information**

**Identification**

Permittee:	<b>Hilcorp Alaska, LLC</b> 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503	
Stationary Source Name:	<b>Swanson River Field</b>	
Location:	60° 43' 37" North; 150° 52' 23" West	
Physical Address:	Kenai Peninsula, AK	
Owner:	<b>Hilcorp Cook Inlet, LLC</b> 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503	
Operator:	<b>Hilcorp Alaska, LLC</b> 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503	
Permittee's Responsible Officials:	Luke Saugier, Senior Vice President Trudi Hallett, Asset Team Lead Chris Kanyer, Asset Team Lead Anthony McConkey, Asset Team Lead Jill Fisk, Asset Team Lead 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503	
Designated Agent:	Cogency Global Inc. P.O. Box 33735 Juneau, AK 99803	
Stationary Source and Building Contact:	Drew Anderson, Regional Environmental Manager 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503 (907) 777-8488 ananderson@hilcorp.com	
Permit Contact:	Drew Anderson, Regional Environmental Manager 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503 (907) 777-8488 ananderson@hilcorp.com	
Fee Contact:	Hilcorp Alaska, LLC, Accounts Payable 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503	
Process Description:	SIC Code	1311 - Crude Petroleum and Natural Gas
	NAICS Code:	211120 - Crude Petroleum Extraction 211130 - Natural Gas Extraction

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

## Section 2. Emissions Unit Inventory and Description

Emissions units (EUs) listed in Table 1 have specific monitoring, recordkeeping, or reporting conditions in this permit. Emissions unit descriptions and ratings are given for identification purposes only.

**Table 1 - Emissions Unit Inventory**

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Size	Fuel Type	Installation or Construction Date
1	Plant Boiler F-201	Cleaver Brooks CB760-150	6.275 MMBtu/hr	Fuel Gas	Pre-1975
2	Refuse Incinerator	Incinomite J83 DS	Waste - 150 lb/hr Fuel Gas - 0.8 MMBtu/hr	Fuel Gas	Pre-1975
8	Compressor Drive K-11	Clark TLA-10	3,777 Hp	Fuel Gas	1965
9	Compressor Drive K-12	Clark TLA-10	3,777 Hp	Fuel Gas	1965
10	Compressor Drive K-13	Clark TLA-10	3,777 Hp	Fuel Gas	1965
11	Compressor Drive K-14	Clark TLA-10	3,777 Hp	Fuel Gas	1965
12	Compressor Drive K-15	Clark TLA-10	3,777 Hp	Fuel Gas	1967
13	Compressor Drive K-17	Clark TLAD-10	4,000 Hp	Fuel Gas	1974
14	Compressor Drive K-18	Clark TLAD-10	4,000 Hp	Fuel Gas	1974
24/25	Flare (150#)/Main Flare (900#)	Flare (150#)/Main Flare (900#)	16.041 MMBtu/hr	Fuel Gas	Pre-1975
27	Flare 1-27	Flare	0.345 MMscf/hr	Fuel Gas	Unknown
28	Flare 1-33	Flare	0.605 MMscf/hr	Fuel Gas	Unknown
29	Flare 1-4	Flare	3.744 MMscf/hr	Fuel Gas	Unknown
30	Flare 1-9	Flare	3.903 MMscf/hr	Fuel Gas	Unknown
31	Flare 2-15	Flare	0.126 MMscf/hr	Fuel Gas	Unknown
32	Flare 3-4	Flare	2.305 MMscf/hr	Fuel Gas	Unknown
33	Flare 3-9	Flare	2.085 MMscf/hr	Fuel Gas	Unknown
36	TEG Regenerator Vent	CIGGS1 Dehydration Unit	105 MMscfd	N/A	Pre-1997
37	TEG Regenerator Vent	CIGGS2 Dehydration Unit	105 MMscfd	N/A	Pre-1997
38	Gasoline Dispensing Facility	Located at the Shop	N/A	N/A	Pre-November 9, 2006
39	Gasoline Dispensing Facility	Located at the Pipe and Supply Yard	N/A	N/A	Pre-November 9, 2006
40	Emergency Generator	Generac Guardian RV	19 kW	Gasoline	June 21, 2007 <sup>1</sup>
41	Emergency Generator	Generac Guardian RV	19 kW	Gasoline	June 21, 2007 <sup>1</sup>
43	Emergency Generator	Cummins C20N6 Engine	40 Hp	Fuel Gas	2019

<b>EU ID</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Rating/Size</b>	<b>Fuel Type</b>	<b>Installation or Construction Date</b>
44	Emergency Generator	Generac RG036 Engine	36 kW-e	Fuel Gas	2023
45	Emergency Generator	Briggs & Stratton PP20 Engine	20 kW-e	Fuel Gas	2023
46	Sand Pit Burner	Heater	5 MMBtu/hr	Fuel Gas	Unknown

Notes:

<sup>1</sup> Manufacturing date.

[18 AAC 50.326(a)]  
[40 C.F.R. 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, 8 through 14, 24/25, 27 through 33, 36, 37, 40, 41, and 43 through 46 listed in Table 1 and boilers, heaters, and test flares listed in Section 12 to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

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

- 1.1. For each of the boilers and heaters listed in Section 12, 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 83 for the visible emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 82 if any boiler or heater listed in Section 12 reaches any of the significant emissions thresholds listed in 18 AAC 50.326(e) and monitor, record, and report in accordance with Conditions 3 through 5 for the remainder of the permit term for that boiler or heater.
- 1.2. For EU IDs 1, 8 through 14, and 43 through 46, burn only gas as fuel. In each operating report under Condition 82, indicate whether each of these emissions units burned only gas during the period covered by the report. Report under Condition 81 if any fuel other than gas is burned in any of these emissions units.
- 1.3. For EU IDs 24/25, 27 through 33, and test flares listed in Section 12, monitor, record, and report in accordance with Condition 6.
- 1.4. For EU IDs 40 and 41, monitoring shall consist of an annual compliance certification under Condition 83 for the visible emissions standard based on reasonable inquiry.

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

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

[18 AAC 50.040(j)(4) & 50.050(a)]  
[40 C.F.R. 71.6(a)(1)]

- 2.1. Observe emissions for 18 minutes to obtain a minimum of 72 consecutive 15-second opacity observations in accordance with Method 9 of 40 C.F.R. 60, Appendix A, at least once every 12 calendar months. If the incinerator is not operated during this period, observe emissions the next time the unit operates.
- 2.2. Record and report in accordance with Conditions 4.1 through 5.3.a.

- 2.3. If any monitoring under Condition 2.1 was not performed, report under Condition 81 within three days of the date the monitoring was required.

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

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

#### *Liquid Fuel-Burning Equipment*

3. **Visible Emissions Monitoring.** When required by Condition 1.1, or in the event of replacement<sup>2</sup> during the permit term, the Permittee shall observe the exhaust of the boilers and heaters in Section 12 for visible emissions using the Method 9 Plan under Condition 3.2.
- 3.1. The Permittee may, for each unit, elect to continue the visible emissions monitoring schedule specified in Conditions 3.2.b through 3.2.e that remains in effect from a previous permit.
- 3.2. **Method 9 Plan.** For all observations in this plan, observe the emissions unit exhaust following 40 C.F.R. 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations.<sup>3</sup>
- a. First Method 9 Observation. Except as provided in Condition 3.1, observe the exhaust of each boiler and heater listed in Section 12 according to the following criteria:
- (i) For any unit replaced, observe exhaust within 60 days of the newly installed emissions unit becoming fully operational.<sup>4</sup> Except as provided in Condition 3.2.e, after the First Method 9 observation comply with Condition 1.1.
- (ii) For each boiler and heater in Section 12, observe the exhaust of the emissions unit within 30 days after the end of the calendar month during which monitoring was triggered under Condition 1.1; or for an emissions unit with intermittent operations, within the first 30 days during the unit's next scheduled operation.
- b. Monthly Method 9 Observations. After the first Method 9 observation conducted under Condition 3.2.a, perform observations at least once in each calendar month that an emissions unit operates.
- c. Semiannual Method 9 Observations. After at least three monthly observations under Condition 3.2.b, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform semiannual observations

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<sup>2</sup> "Replacement", as defined in 40 C.F.R. 51.166(b)(32).

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

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

- (i) no later than seven months, but not earlier than five months, after the preceding observation; or
  - (ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following seven months after the preceding observation.
- d. Annual Method 9 Observations. After at least two semiannual observations under Condition 3.2.c, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform annual observations:
- (i) no later than 12 months, but not earlier than 10 months, after the preceding observation; or
  - (ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following 14 months after the preceding observation.
- e. Increased Method 9 Frequency. If a six-consecutive-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more individual observations are greater than 20 percent, then increase or maintain the observation frequency for that emissions unit to at least monthly intervals as described in Condition 3.2.b, and continue monitoring in accordance with the Method 9 Plan.

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

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

- 4.1. For all Method 9 Plan observations,
- a. the observer shall record the following:
    - (i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emission Observation Form in Section 13;
    - (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 13, and

- (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
  - b. To determine the six-consecutive-minute average opacity,
    - (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
    - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
    - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; and
    - (iv) record the average opacity on the sheet.
  - c. Calculate and record the highest six-consecutive- and 18-consecutive-minute average opacities observed.
- 4.2. The records required by Condition 4.1 may be kept in electronic format.

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

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

- 5.1. In the first operating report required in Condition 82 under this permit term, the Permittee shall state the intention to either continue the visible emissions monitoring schedule in effect from the previous permit or reset the visible emissions monitoring schedule.
- 5.2. Include in each operating report required under Condition 82 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; and
    - (iii) a summary of any monitoring or recordkeeping required under Conditions 3 and 4 that was not done.
- 5.3. Report under Condition 81:

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

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

### *Flares*

#### **6. Visible Emissions MR&R.** The Permittee shall monitor, record, and report as follows:

- 6.1. Observe flare events<sup>5</sup> on EU IDs 24/25, 27 through 33, and test flares listed in Section 12 for visible emissions following 40 C.F.R. 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations according to the following schedule:
  - a. If a visible emission observation has not been previously conducted on any of EU IDs 24/25, 27 through 33, and test flares listed in Section 12, the Permittee shall conduct an initial visible emissions observation within 12 months of the effective date of this permit.
  - b. Conduct subsequent visible emissions observations within 14 months of, but not earlier than three months after, the preceding flare event visible emissions observation at a given well site.
  - c. If there are no flare events that meet the requirements of Conditions 6.1.a or 6.1.b, the Permittee shall observe the next daylight flare event.
- 6.2. Record the following information for each observed flare event:
  - a. flare EU ID number;
  - b. results of the Method 9 observations;
  - c. reason for flaring;
  - d. date, beginning and ending time of event; and
  - e. volume of gas flared.
- 6.3. The records required by Condition 6.2 may be kept in electronic format.
- 6.4. Monitoring of a flare event may be postponed for safety or weather reasons, or because a qualified observer is not available.
- 6.5. Include the following in the operating report required by Condition 82 for the period covered by the report:

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<sup>5</sup> For purposes of this permit, a “*flare event*” is flaring of gas during daylight for greater than one hour as a result of scheduled release operations; i.e., maintenance or well testing activities. It does not include non-scheduled release operations, i.e. process upsets, emergency flaring, or de-minimis venting of gas incidental to normal operations.

- a. copies of the records required by Condition 6.2; and
  - b. if an annual flare event observation required by Conditions 6.1.a or 6.1.b has not been fulfilled for the year and/or monitoring of a flare event is postponed, an explanation of the reason the event was not monitored.
- 6.6. Report under Condition 81:
- a. whenever the visible emissions standard in Condition 1 is exceeded; or
  - b. the monitoring required under Condition 6.1 is not completed, except as allowed under Condition 6.4.
- 6.7. If no flare events are monitored during a certification period, the Permittee shall certify compliance under Condition 83 with the visible emissions standard in Condition 1 based on reasonable inquiry.

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

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

7. **Industrial Process and Fuel-Burning Equipment PM Emissions.** The Permittee shall not cause or allow PM emitted from EU IDs 1, 8 through 14, 24/25, 27 through 33, 36, 37, 40, 41, 43 through 46 listed in Table 1 and boilers, heaters, and test flares in Section 12 to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

- 7.1. For each of the boilers and heaters listed in Section 12, 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 83 for the PM emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 82 if any boiler or heater listed in Section 12 reaches any of the significant emissions thresholds and monitor, record, and report in accordance with Conditions 8 through 10 for the remainder of the permit term for that emissions unit.
- 7.2. For EU IDs 1, 8 through 14, and 43 through 46, the Permittee shall comply with Condition 1.2.
- 7.3. For EU IDs 24/25, 27 through 33, and test flares listed in Section 12, the Permittee shall comply with Condition 6.
- 7.4. For EU IDs 40 and 41, the Permittee must annually certify compliance under Condition 83 for the PM emissions standard based on reasonable inquiry.

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

## PM MR&R

### *Liquid Fuel-Burning Boilers and Heaters*

**8. PM Monitoring.** The Permittee shall conduct source tests on the boilers and heaters listed in Section 12 (when required by Condition 7.1), to determine the concentration of PM in the exhaust of each of the emissions units as follows:

- 8.1. If the result of any Method 9 observation conducted under Condition 3.2 for any of the boilers and heaters listed in Section 12 results in an 18-minute average opacity greater than 20 percent opacity, the Permittee shall, within six months of that Method 9 observation, either:
  - a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 C.F.R. 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than an 18-minute average opacity of 20 percent; or
  - b. except as exempted under Condition 8.3, conduct a PM source test according to the requirements in Section 6.
- 8.2. During each one-hour PM source test run under Condition 8.1, 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.
- 8.3. The PM source test requirement in Condition 8.1 is waived for an emissions unit if:
  - a. a source test on that unit has shown compliance with the PM standard during this permit term, or
  - b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations (as described in Condition 3.2) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 8.1.

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

**9. PM Recordkeeping.** The Permittee shall keep records of the results of any source test and visible emissions observations conducted under Condition 8.

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

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

- 10.1. Notify the Department of any Method 9 observation results that are greater than the threshold of Condition 8.1 within 30 days of the end of the month in which the observations occurred. Include the dates, EU IDs, and results when an observed 18-minute average opacity was greater than the threshold in Condition 8.1.

- 10.2. In each operating report required by Condition 82, include:
- a. a summary of the results of any source test and visible emissions observations conducted under Condition 8; and
  - b. copies of any visible emissions observation results greater than the threshold in Condition 8.1, if they were not already submitted.
- 10.3. Report in accordance with Condition 81 any time the results of a source test exceed the PM emission standard in Condition 7.

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

### **Sulfur Compound Emissions Standard**

- 11. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from EU IDs 1, 8 through 14, 24/25, 27 through 33, 36, 37, 40, 41, 43 through 46 listed in Table 1 and boilers, heaters, and test flares listed in Section 12 to exceed 500 ppm averaged over three hours.

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

### **Sulfur Compound Emissions MR&R**

*Fuel Oil<sup>6</sup> (EU IDs 40 and 41, and Boilers and Heaters listed in Section 12)*

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

- 12.1. Comply with either Condition 12.1.a or Condition 12.1.b:
- a. For each shipment of fuel:
    - (i) If the fuel grade requires a sulfur content 0.5 percent by weight (wt% $S_{fuel}$ ) or less, keep receipts that specify fuel grade and amount; or
    - (ii) If the fuel grade does not require a sulfur content 0.5 wt% $S_{fuel}$  or less, keep receipts that specify fuel grade and amount, and
      - (A) test the fuel for sulfur content; or
      - (B) obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent; or
  - b. Test the sulfur content of the fuel in each storage tank that supplies fuel to EU IDs 40 and 41 and boilers and heaters listed in Section 12 at least monthly.

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

12.2. Fuel testing under Condition 12.1.a or Condition 12.1.b must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

12.3. If a shipment of fuel contains greater than 0.75 wt% $S_{\text{fuel}}$  or if the results of a fuel sulfur content test indicate that the fuel contains greater than 0.75 wt% $S_{\text{fuel}}$ , the Permittee shall calculate SO<sub>2</sub> emissions in parts per million (ppm) using either the SO<sub>2</sub> material balance calculation in Section 14 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a)(3).

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

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

13.1. If SO<sub>2</sub> emissions calculated under Condition 12.3 exceed 500 ppm, the Permittee shall report in accordance with Condition 81. When reporting under this condition, include the calculation under Condition 12.3.

13.2. The Permittee shall include in the operating report required by Condition 82 for each month covered by the report:

- a. a list of the fuel grades received at the stationary source;
- b. for any fuel received with a fuel sulfur content greater than 0.5 wt% $S_{\text{fuel}}$ , the fuel sulfur content of the shipment;
- c. the results of all fuel sulfur analyses conducted under Condition 12.1.a or Condition 12.1.b and documentation of the method(s) used to complete the analyses; and
- d. for any fuel received with a sulfur content greater than 0.75 wt% $S_{\text{fuel}}$ , the SO<sub>2</sub> emissions in ppm calculated under Condition 12.3.

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

**14.** For boilers and heaters listed in Section 12, to ensure compliance with Condition 11, the Permittee shall comply with the fuel sulfur content limit and associated MR&R requirements in Condition 20.

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

*Fuel Gas (EU IDs 1, 8 through 14, 24/25, 27 through 33, 43 through 46 listed in Table 1 and Test Flares listed in Section 12)*

**15. Sulfur Compound Emissions Monitoring.** The Permittee shall analyze a representative sample of the fuel gas annually to determine the total sulfur content using either ASTM D4084, D5504, D4810, D4913, D6228 or GPA Standard 2377, or a listed method approved in 18 AAC 50.035(b)-(c) or 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

- 16. Sulfur Compound Emissions Recordkeeping.** The Permittee shall keep records of the sulfur content analysis required under Condition 15.
- 17. Sulfur Compound Emissions Reporting.** The Permittee shall report as follows:
- 17.1. Report as excess emissions, in accordance with Condition 81, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 11.
- 17.2. Include copies of the records required by Condition 16 with the operating report required by Condition 82 for the period covered by the report.

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

### Pre-construction Permit<sup>7</sup> Requirements

- 18. Throughput Limit, EU ID 2.** The Permittee shall limit the mass of waste loaded to EU ID 2 to 300,000 pounds in any consecutive 12-month period.
- 18.1. Monitor and record the monthly mass of waste loaded to EU ID 2.
- 18.2. In the operating report required by Condition 82, report the monthly mass and consecutive 12-month rolling total mass of waste loaded to EU ID 2 during each month of the reporting period.
- [Condition 9, Operating Permit No. 059TVP01 Revision 1, 3/31/2004]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1) & (3)]
- 18.3. Report under Condition 81 whenever the limit in Condition 18 is exceeded.
- [40 C.F.R. 71.6(a)(3) & 71.6(c)(6)]
- 19. Operating Hour Limit, EU IDs 12 through 14.** The Permittee shall limit the cumulative hours of operation of EU IDs 12, 13, and 14 to 17,520 hours in any consecutive 12-month period.
- 19.1. Monitor and record the monthly hours of operation of EU IDs 12 through 14.
- 19.2. In the operating report required by Condition 82, report the cumulative monthly hours of operation and consecutive 12-month rolling total hours of operation of EU IDs 12 through 14 during each month of the reporting period.
- [Condition 8, Operating Permit No. 059TVP01 Revision 1, 3/31/2004]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1) & (3)]
- 19.3. Report under Condition 81 whenever a limit in Condition 18 is exceeded.
- [40 C.F.R. 71.6(a)(3) & 71.6(c)(6)]

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

- 20. Drill Rig Fuel Sulfur Content Limit.** For any equipment listed in Section 12 and any substitute equipment allowed under Condition 23, the Permittee shall not burn any diesel fuel with a sulfur content greater than 0.5%.

[Condition 5, Permit to Operate No. 9423-AA009, 8/31/94, as amended through May 28, 1997]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]

20.1. The Permittee shall:

- a. Monitor and keep records in accordance with Conditions 12.1 and 12.2.
- b. Report in accordance with Conditions 13.2.a through 13.2.c.
- c. Report in accordance with Condition 81 whenever the sulfur content of the fuel combusted in any equipment listed in Section 12 or any substitute equipment allowed under Condition 23 is greater than 0.5%.

[40 C.F.R. 71.6(a)(3) & 71.6(c)(6)]

- 21. Drilling Site Restrictions.** The Permittee shall limit the drilling and well testing operations to no more than 24 months per drill site within the Swanson River Field. Extension beyond this time frame will require Department approval.

21.1. Monitor, record, and report in accordance with Condition 22.

[Condition 6, Operating Permit No. 061TVP01 Revision 2, 5/4/2004]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(3)]

- 22. Relocation of Drill Rig.** The Permittee shall notify the Department prior to moving a drill rig onto, or in, the Swanson River Field. Use the Relocation Notification Form in Section 11 to make this notification.

[Exhibit F, Permit to Operate No. 9423-AA009, 8/31/94, as amended through May 28, 1997]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1) & (a)(3)]

- 23. Drill Rig Operating Limits.** The Permittee shall use a drill rig drawn from the pool of rigs identified in Section 12 of the permit. The source inventory of each of these rigs is detailed in Section 12, subject to change as allowed by the Relocation Notification Form in Section 11. The Permittee may substitute equipment provided the overall rated power capacity of the rig does not exceed that of the Nabors 160 rig.

[Condition 8, Operating Permit No. 061TVP01 Revision 2, 5/4/2004]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1) & (a)(3)]

- 24. Drill Rig Engines, Boilers, and Heaters.** The Permittee shall limit the hours of operation for each emissions unit listed in Section 12 (except test flares) to 2,160 hours per year per drill site, on a 12-month rolling basis. This operational limit shall apply to any drill rig engine, boiler, or heater used.

[Condition 4, Permit to Operate No. 9423-AA009, 8/31/94, as amended through May 28, 1997]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]

- 24.1. Monitor and record the monthly and consecutive 12-month rolling hours of operation for each emissions unit in Section 12 for the drill rig used at each site.
- 24.2. Report the monthly and consecutive 12-month rolling hours of operation for each emissions unit in Section 12 used at each site in accordance with Condition 82.
- 24.3. Notify the Department per Condition 81 whenever the 12-month rolling hours of operation for any emissions unit used at each site exceed a limit in Condition 24.

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

- 25. Drill Rig Test Flare.** The Permittee shall limit the operation of the drill rig test flares listed in Section 12 to 30 MMscf per day per drill site.

[Exhibit B, Permit to Operate No. 9423-AA009, 8/31/94, as amended through May 28, 1997]  
[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]

- 25.1. Monitor and record the daily volume of gas flared at each site.
- 25.2. Notify the Department per Condition 81 whenever the volume of gas flared on any day at any drill site exceeds the limit in Condition 25.

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

### Insignificant Emissions Units

- 26.** 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:

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

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

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

[18 AAC 50.055(b)(1)]

- 26.3. Sulfur Compound Standard.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

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

- a. Submit the compliance certifications of Condition 83 based on reasonable inquiry;

- b. Comply with the requirements of Condition 64;
- c. Report in the operating report required by Condition 82 if an emissions unit has historically been classified as insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e), and current actual emissions have become greater than any of those thresholds; and
- d. No other monitoring, recordkeeping, or reporting is required for insignificant emissions units to demonstrate compliance with the emissions standards under Conditions 26.1, 26.2, and 26.3.

[18 AAC 50.040(j)(4), 50.32(j)(3), & 50.346(b)(4)]  
[40 C.F.R. 71.6(a)(1) & (3)]

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

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

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

**27. NSPS Subpart A Notification.** Unless inapplicable pursuant to 40 C.F.R. 60.7(h), for any affected facility<sup>8</sup> or existing facility<sup>9</sup> regulated under NSPS requirements in 40 C.F.R. 60, the Permittee shall furnish the Administrator<sup>10</sup> written notification or, if acceptable to both the EPA and the Permittee, electronic notification, as follows:

[18 AAC 50.035 & 50.040(a)(1)]  
[40 C.F.R. 60.7(a), 60.7(h), & 60.15(d), Subpart A]

27.1. A notification of the date construction (or reconstruction as defined under 40 C.F.R. 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 C.F.R. 60.7(a)(1), Subpart A]

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

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

27.3. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 C.F.R. 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include:<sup>11</sup>

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

[40 C.F.R. 60.7(a)(4), Subpart A]

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

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

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<sup>8</sup> “Affected facility” means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 C.F.R. 60.2.

<sup>9</sup> “Existing facility” means, with reference to a stationary source, any apparatus of the type for which a standard is promulgated in 40 C.F.R. Part 60, and the construction or modification of which was commenced before the date of proposal of that standard; or any apparatus which could be altered in such a way as to be of that type, as defined in 40 C.F.R. 60.2.

<sup>10</sup> The Department defines “the Administrator” to mean “the EPA and the Department.”

<sup>11</sup> The Department and EPA may request additional relevant information subsequent to this notice.

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

**28. NSPS Subpart A Performance (Source) Tests.** The Permittee shall conduct source tests according to 40 C.F.R. 60.8 and Section 6 on any affected facility at such times as may be required by the Administrator, and shall provide the Department and EPA with a written report of the results of the source test.

[18 AAC 50.040(a)(1)]  
[40 C.F.R. 60.8(a) – (f), Subpart A]

**29. NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Condition 31. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.

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

### **NSPS Subpart JJJJ<sup>12</sup> – Spark Ignition Internal Combustion Engines (SI ICE), EU IDs 43 through 45**

**30. NSPS Subpart JJJJ Applicability.** For EU IDs 43 through 45 listed in Table 1, the Permittee shall comply with the applicable requirements for stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured on or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 kW (25 Hp).

[18 AAC 50.040(a)(2)(PP) & (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.4230(a) & (a)(4)(iv), Subpart JJJJ]

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<sup>12</sup> The provisions of NSPS Subpart JJJJ listed in Conditions 30 through 32 are current as amended through August 30, 2024. Should EPA promulgate revisions to this subpart, the Permittee shall be subject to the revised final provisions as promulgated and not the superseded provisions summarized in these conditions.

**31. NSPS Subpart JJJJ Emission Standards.** For EU IDs 43 through 45 listed in Table 1, the Permittee shall comply with the following applicable requirements of NSPS Subpart JJJJ.

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

31.1. The Permittee must comply with the following emission standards:

- a. 10 g/Hp-hr for NO<sub>x</sub> + HC; and
- b. 387 g/Hp-hr for CO.

[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.4233(d) & Table 1, Subpart JJJJ]

31.2. The Permittee must operate and maintain stationary SI ICE that achieve the emission standards as required in Condition 31.1 over the entire life of the engine.

[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.4234, Subpart JJJJ]

**32. NSPS Subpart JJJJ Monitoring and Recordkeeping.** The Permittee shall monitor, record, and report compliance with the respective Subpart JJJJ emission standards under Condition 31, as follows:

32.1. The Permittee must install a non-resettable hour meter upon startup of EU IDs 43 through 45.

[40 C.F.R. 71.6(a)(3)]  
[40 C.F.R. 60.4237(c), Subpart JJJJ]

32.2. The Permittee shall demonstrate compliance as follows:

[40 C.F.R. 71.6(a)(3)]  
[40 C.F.R. 60.4243(b), Subpart JJJJ]

- a. Purchasing an engine certified according to procedures specified in NSPS Subpart JJJJ, for the same model year and demonstrating compliance according to one of the methods specified in Conditions 32.2.a(i) and 32.2.a(ii).

[40 C.F.R. 60.4243(b)(1), Subpart JJJJ]

- (i) If the Permittee operates and maintains the certified stationary SI ICE and control device according to the manufacturer's emission-related written instructions, the Permittee must keep records of conducted maintenance to demonstrate compliance. The Permittee must also meet the requirements as specified in 40 C.F.R. part 1068, subparts A through D, as they apply to the Permittee.

- (ii) If the Permittee does not operate and maintain the certified stationary SI ICE and control device according to the manufacturer's emission-related written instructions, that SI ICE will be considered a non-certified engine, and the Permittee must demonstrate compliance as follows:

[40 C.F.R. 60.4243(a)(1) & (2), Subpart JJJJ]

- (A) The Permittee must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice (GAPCP) for minimizing emissions.

[40 C.F.R. 60.4243(a)(2)(i), Subpart JJJJ]

32.3. The Permittee must operate EU IDs 43 through 45 according to the requirements in Conditions 32.3.a through 32.3.c. In order for the engine to be considered an emergency stationary ICE under NSPS Subpart JJJJ, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Conditions 32.3.a through 32.3.c, is prohibited. If the Permittee does not operate the engine according to the requirements in Conditions 32.3.a through 32.3.c, the engine will not be considered an emergency engine under NSPS Subpart JJJJ and must meet all requirements for non-emergency engines.

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

[40 C.F.R. 60.4243(d), Subpart JJJJ]

- a. There is no time limit on the use of EU IDs 43 through 45 in emergency situations.
- b. The Permittee may operate EU IDs 43 through 45 for the purposes specified in Condition 32.3.b(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 32.3.c counts as part of the 100 hours per calendar year allowed by this paragraph.

[40 C.F.R. 60.4243(d)(1) & (2), Subpart JJJJ]

- (i) EU IDs 43 through 45 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 Permittee 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 Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of EU IDs 43 through 45 beyond 100 hours per calendar year.

[40 C.F.R. 60.4243(d)(2)(i), Subpart JJJJ]

- c. EU IDs 43 through 45 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 32.3.b.

[40 C.F.R. 60.4243(d)(3), Subpart JJJJ]

32.4. The Permittee must keep records of the following information:

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

[40 C.F.R. 60.4245(a), Subpart JJJJ]

- a. Maintenance conducted on the engine.
- b. If the stationary SI ICE is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 C.F.R. parts 1048, 1054, and 1060, as applicable.
- c. If the stationary SI ICE is a certified engine operating in a non-certified manner and subject to Condition 32.2.a(ii), documentation that the engine meets the emission standards.

[40 C.F.R. 60.4245(a)(2)-(4), Subpart JJJJ]

32.5. For EU IDs 43 through 45, the Permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

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

[40 C.F.R. 60.4245(b), Subpart JJJJ]

### NSPS Subpart OOOOa<sup>13</sup> – Crude Oil and Natural Gas Facilities

**33. NSPS Subpart OOOOa Applicability.** The Permittee is subject to the applicable provisions of this subpart for the collection of fugitive emissions components at a well site, that is located within the Crude Oil and Natural Gas source category, as defined in 40 C.F.R. 60.5430a, for which the Permittee commence construction, modification, or reconstruction after September 18, 2015, and on or before December 6, 2022. The Permittee shall comply with the following applicable requirements in NSPS Subpart OOOOa for those pads that have triggered applicability under Subpart OOOOa.

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

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 60.5365a & 60.5365a(i), Subpart OOOOa]

33.1. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with GAPCP for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. The provisions for exemption from compliance during periods of startup, shutdown and malfunctions provided for in 40 C.F.R. 60.8(c) do not apply to NSPS Subpart OOOOa.

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 60.5370a(b), Subpart OOOOa]

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<sup>13</sup> The provisions of NSPS Subpart OOOOa listed in Conditions 33 are current as amended through July 31, 2025. Should EPA promulgate revisions to this subpart, the Permittee shall be subject to the revised final provisions as promulgated and not the superseded provisions summarized in these conditions.

*NSPS Subpart OOOOa Fugitive Emissions GHG and VOC Standards*

33.2. For the collection of fugitive emissions components at a well site, as defined in 40 C.F.R. 60.5430a, the Permittee must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with the following:

[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.5397a, Subpart OOOOa]

- a. The Permittee must develop an emissions monitoring plan that covers the collection of fugitive emissions components at well sites within each company-defined area in accordance with Conditions 33.2.b and 33.2.c.
- b. Fugitive emissions monitoring plans must include the elements specified in 40 C.F.R. 60.5397a(c)(1) through (8), at a minimum.  
[40 C.F.R. 60.5397a(b) & (c), Subpart OOOOa]
- c. Each fugitive emissions monitoring plan must include the elements specified in 40 C.F.R. 60.5397a(d)(1) through (3), at a minimum, as applicable.  
[40 C.F.R. 60.5397a(d), Subpart OOOOa]
- d. Each monitoring survey shall observe each fugitive emissions component, as defined in 40 C.F.R. 60.5430a, for fugitive emissions.  
[40 C.F.R. 60.5397a(e), Subpart OOOOa]
- e. A monitoring survey of each collection of fugitive emissions components at a well site must be performed at the frequencies specified in Condition 33.2.e(i), with the exceptions noted in Conditions 33.2.e(ii) and 33.2.e(iii).  
[40 C.F.R. 60.5397a(g), Subpart OOOOa]
  - (i) Except as provided herein, a monitoring survey of each collection of fugitive emissions components at a well site must be conducted at least semiannually after the initial survey. Consecutive semiannual monitoring surveys must be conducted at least 4 months apart and no more than 7 months apart.  
[40 C.F.R. 60.5397a(g)(1), Subpart OOOOa]
  - (ii) Fugitive emissions components that cannot be monitored without elevating the monitoring personnel more than 2 meters above the surface may be designated as difficult-to-monitor. Fugitive emissions components that are designated difficult-to-monitor must meet the specifications of 40 C.F.R. 60.5397a(g)(3)(i) through (iv).  
[40 C.F.R. 60.5397a(g)(3), Subpart OOOOa]
  - (iii) Fugitive emissions components that cannot be monitored because monitoring personnel would be exposed to immediate danger while conducting a monitoring survey may be designated as unsafe-to-monitor. Fugitive emissions components that are designated unsafe-to-monitor must meet the specifications of 40 C.F.R. 60.5397a(g)(4)(i) through (iv).  
[40 C.F.R. 60.5397a(g)(4), Subpart OOOOa]

- f. Each identified source of fugitive emissions shall be repaired, as defined in 40 C.F.R. 60.5430a, in accordance with Conditions 33.2.f(i) and 33.2.f(ii).  
[40 C.F.R. 60.5397a(h), Subpart OOOOa]
- (i) A first attempt at repair shall be made no later than 30 calendar days after detection of the fugitive emissions.
  - (ii) Repair shall be completed as soon as practicable, but no later than 30 calendar days after the first attempt at repair as required in Condition 33.2.f(i).
  - (iii) Delay of repair will be allowed if any of the following conditions are met:
    - (A) If the repair is technically infeasible, would require a vent blowdown, a compressor station shutdown, a well shutdown or well shut-in, or would be unsafe to repair during operation of the unit, the repair must be completed during the next scheduled compressor station shutdown for maintenance, scheduled well shutdown, scheduled well shut-in, after a scheduled vent blowdown or within 2 years of detecting the fugitive emissions, whichever is earliest; or
    - (B) If the repair requires replacement of a fugitive emissions component or a part thereof, but the replacement cannot be acquired and installed within the repair timelines specified in Conditions 33.2.f(i) and 33.2.f(ii) due to either of the conditions specified in 40 C.F.R. 60.5397a(h)(3)(ii)(A) or (B), the repair must be completed in accordance with 40 C.F.R. 60.5397a(h)(3)(ii)(C) and documented in accordance with 40 C.F.R. 60.5420a(c)(15)(vii)(I).  
[40 C.F.R. 60.5397a(h)(1)-(3), Subpart OOOOa]
  - (iv) To ensure that there are no fugitive emissions, each identified source of fugitive emissions must be resurveyed to complete repair according to the following requirements:  
[40 C.F.R. 60.5397a(h)(4), Subpart OOOOa]
    - (A) The operator may resurvey the fugitive emissions components to verify repair using either Method 21 or OGI.
    - (B) For each repair that cannot be made during the monitoring survey when the fugitive emissions are initially found, a digital photograph must be taken of that component or the component must be tagged during the monitoring survey when the fugitives were initially found for identification purposes and subsequent repair. The digital photograph must include the date that the photograph was taken and must clearly identify the component by location within the site (*e.g.*, the latitude and longitude of the component or by other descriptive landmarks visible in the picture).

(C) Operators that use Method 21 to resurvey the repaired fugitive emissions components are subject to the resurvey provisions specified in 40 C.F.R. 60.5397a(h)(4)(iii)(A) and (B).

(D) Operators that use OGI to resurvey the repaired fugitive emissions components, are subject to the resurvey provisions specified in 40 C.F.R. 60.5397a(h)(4)(iv)(A) and (B).

[40 C.F.R. 60.5397a(h)(4)(i)-(iv), Subpart OOOOa]

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

33.3. *Recordkeeping requirements.* The Permittee must maintain the records identified as specified in 40 C.F.R. 60.7(f) and in Condition 33.3.a. All records required by this condition must be maintained either onsite or at the nearest local field office for at least 5 years. Any records required to be maintained by this condition that are submitted electronically via the EPA's CDX may be maintained in electronic format.

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

[40 C.F.R. 60.5420a(c), Subpart OOOOa]

a. For each collection of fugitive emissions components at a well site, maintain the records identified in 40 C.F.R. 60.5420a(c)(15), as applicable.

[40 C.F.R. 60.5420a(c)(15), Subpart OOOOa]

33.4. *Reporting requirements.* The Permittee must submit annual reports containing the information specified in Conditions 33.4.a and 33.4.b. The Permittee must submit annual reports following the procedure specified in Condition 33.4.c. Annual reports must be submitted each year, no later than the date the initial annual report was submitted. If the Permittee owns or operates more than one affected facility, the Permittee may submit one report for multiple affected facilities, provided the report contains all of the information required as specified in Conditions 33.4.a and 33.4.b. Annual reports may coincide with Title V reports as long as all the required elements of the annual report are included. The Permittee may arrange with the Administrator a common schedule on which reports required by this part may be submitted as long as the schedule does not extend the reporting period.

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

[40 C.F.R. 60.5420a(b), Subpart OOOOa]

a. The Permittee shall include the general information specified in 40 C.F.R. 60.5420(b)(1), as applicable, in all reports.

[40 C.F.R. 60.5420a(b)(1), Subpart OOOOa]

b. For the collection of fugitive emissions components at each well site, report the information specified in 40 C.F.R. 60.5420(b)(7), as applicable.

[40 C.F.R. 60.5420a(b)(7), Subpart OOOOa]

- c. The Permittee must submit reports to the EPA via CEDRI, which can be accessed through the EPA's CDX (<https://cdx.epa.gov/>). The Permittee must use the appropriate electronic report template on the CEDRI website for NSPS Subpart OOOOa (<https://www.epa.gov/electronic-reporting-air-emissions/cedri/>). If the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the Permittee must submit the report to the Administrator at the appropriate address listed in 40 C.F.R. 60.4. Once the form has been available in CEDRI for at least 90 calendar days, the Permittee must begin submitting all subsequent reports via CEDRI.

[40 C.F.R. 60.5420a(b)(11), Subpart OOOOa]

### NSPS Subpart OOOOb<sup>14</sup> – Crude Oil and Natural Gas Facilities

34. **NSPS Subpart OOOOb Applicability.** The Permittee is subject to the applicable provisions of this subpart for the collection of fugitive emissions components at a well site, that is located within the Crude Oil and Natural Gas source category, as defined in 40 C.F.R. 60.5430b, for which the Permittee commence construction, modification, or reconstruction after December 6, 2022. The Permittee shall comply with the following applicable requirements in NSPS Subpart OOOOb for those pads that have triggered applicability under Subpart OOOOb.

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 60.5365b & 60.5365b(i), Subpart OOOOb]

- 34.1. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with GAPCP for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. The provisions for exemption from compliance during periods of startup, shutdown and malfunctions provided for in 40 C.F.R. 60.8(c) do not apply to NSPS Subpart OOOOb.

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 60.5370b(b), Subpart OOOOb]

### *NSPS Subpart OOOOb Fugitive Emissions GHG and VOC Standards*

- 34.2. For the collection of fugitive emissions components at a well site, to reduce fugitive emissions of methane and VOC, the Permittee must comply with the following:

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 60.5397b, Subpart OOOOb]

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<sup>14</sup> The provisions of NSPS Subpart OOOOb listed in Conditions 34 are current as amended through December 3, 2025. Should EPA promulgate revisions to this subpart, the Permittee shall be subject to the revised final provisions as promulgated and not the superseded provisions summarized in these conditions.

- a. The Permittee must develop a fugitive emissions monitoring plan that covers all fugitive emissions components affected facilities within each company-defined area in accordance with Conditions 34.2.b and 34.2.c.  
[40 C.F.R. 60.5397b(b) & (c), Subpart OOOOb]
- b. The fugitive emissions monitoring plan must include the elements specified in 40 C.F.R. 60.5397b(c)(1) through (8), at a minimum.  
[40 C.F.R. 60.5397b(d), Subpart OOOOb]
- c. Each fugitive emissions monitoring plan must include the elements specified in 40 C.F.R. 60.5397b(d)(1) and (2), at a minimum, as applicable.  
[40 C.F.R. 60.5397b(e), Subpart OOOOb]
- d. Each fugitive emissions component, except buried yard piping and associated components (*e.g.*, connectors), shall be observed or monitored for fugitive emissions during each monitoring survey.  
[40 C.F.R. 60.5397b(f)(3), Subpart OOOOb]
- e. For a modified or reconstructed fugitive emissions components affected facility, the initial monitoring survey must be conducted within 90 days of the startup of production for each fugitive emissions components affected facility after the modification or reconstruction or by June 6, 2024, whichever date is later.  
[40 C.F.R. 60.5397b(g)(1)(iv), Subpart OOOOb]
- f. A monitoring survey of each fugitive emissions components affected facility must be performed as specified in Condition 34.2.f(i), with the exceptions noted in Conditions 34.2.f(ii) through 34.2.f(iv). Monitoring for fugitive emissions components affected facilities located at well sites must continue at the specified frequencies in Condition 34.2.f(i) until the well closure requirements in Condition 34.3 are completed.  
[40 C.F.R. 60.5397b(g)(1)(iv)(E) & (F), Subpart OOOOb]
  - (i) A monitoring survey of the fugitive emissions components affected facilities located at well sites must be conducted at the frequencies in Conditions 34.2.f(i)(A) and 34.2.f(i)(B).  
[40 C.F.R. 60.5397b(g)(1)(iv)(E) & (F), Subpart OOOOb]
    - (A) A monitoring survey must be conducted at least bimonthly using AVO, or any other detection method, after the initial survey. Any indications of fugitive emissions using these methods are considered fugitive emissions that must be repaired in accordance with Condition 34.2.g.
    - (B) A monitoring survey must be conducted at least quarterly using OGI or Method 21 after the initial survey. Consecutive quarterly monitoring surveys must be conducted at least 60 calendar days apart.  
[40 C.F.R. 60.5397b(g)(1)(iv)(E) & (F), Subpart OOOOb]

- (ii) If using Method 21, fugitive emissions components that cannot be monitored without elevating the monitoring personnel more than 2 meters above the surface may be designated as difficult-to-monitor. Fugitive emissions components that are designated difficult-to-monitor must meet the specifications of 40 C.F.R. 60.5397b(g)(2)(i) through (iv).

[40 C.F.R. 60.5397b(g)(2), Subpart OOOOb]

- (iii) If using Method 21, fugitive emissions components that cannot be monitored because monitoring personnel would be exposed to immediate danger while conducting a monitoring survey may be designated as unsafe-to-monitor. Fugitive emissions components that are designated unsafe-to-monitor must meet the specifications of 40 C.F.R. 60.5397b(g)(3)(i) through (iv).

[40 C.F.R. 60.5397b(g)(3), Subpart OOOOb]

- (iv) The requirements of Condition 34.2.f(i)(B) are waived during a quarterly monitoring period for any fugitive emissions components affected facility located within an area that has an average calendar month temperature below 0 degrees Fahrenheit for two of three consecutive calendar months of a quarterly monitoring period. The calendar month temperature average for each month within the quarterly monitoring period must be determined using historical monthly average temperatures over the previous three years as reported by a National Oceanic and Atmospheric Administration source or other source approved by the Administrator. The requirements of Condition 34.2.f(i) shall not be waived for two consecutive quarterly monitoring periods.

[40 C.F.R. 60.5397b(g)(4), Subpart OOOOb]

- g. Each identified source of fugitive emissions shall be repaired in accordance with Conditions 34.2.g(i) and 34.2.g(ii).

[40 C.F.R. 60.5397b(h), Subpart OOOOb]

- (i) A first attempt at repair shall be made as follows:
  - (A) A first attempt at repair shall be made no later than 15 calendar days after detection of fugitive emissions that were identified using AVO.
  - (B) If complying with Condition 34.2.f(i) using OGI or Method 21, a first attempt at repair shall be made no later than 30 calendar days after detection of the fugitive emissions.
- (ii) Repair shall be completed as soon as practicable, but no later than 15 calendar days after the first attempt at repair as required in Condition 34.2.g(i)(A), and 30 calendar days after the first attempt at repair as required in Condition 34.2.g(i)(B).
- (iii) Delay of repair will be allowed if any of the following conditions are met:

- (A) If the repair is technically infeasible, would require a vent blowdown, a compressor station shutdown, a well shutdown or well shut-in, or would be unsafe to repair during operation of the unit, the repair must be completed during the next scheduled compressor station shutdown for maintenance, scheduled well shutdown, scheduled well shut-in, after a scheduled vent blowdown, or within 2 years of detecting the fugitive emissions, whichever is earliest; or
- (B) If the repair requires replacement of a fugitive emissions component or a part thereof, but the replacement cannot be acquired and installed within the repair timelines specified in Conditions 34.2.g(i) and 34.2.g(ii) due to either of the conditions specified in 40 C.F.R. 60.5397b(h)(3)(ii)(A) or (B), the repair must be completed in accordance with 40 C.F.R. 60.5397b(h)(3)(ii)(C) and documented in accordance with 40 C.F.R. 60.5420b(c)(14)(v)(I).

[40 C.F.R. 60.5397b(h)(1)-(3), Subpart OOOOb]

- (iv) To ensure that there are no fugitive emissions, each identified source of fugitive emissions must be resurveyed to complete repair according to the following requirements:

[40 C.F.R. 60.5397b(h)(4), Subpart OOOOb]

- (A) The operator may resurvey the fugitive emissions components to verify repair using either Method 21 or OGI, except as specified in Condition 34.2.g(iv)(E).
- (B) For each repair that cannot be made during the monitoring survey when the fugitive emissions are initially found, a digital photograph must be taken of that component, or the component must be tagged during the monitoring survey when the fugitive emissions were initially found for identification purposes and subsequent repair. The digital photograph must include the date that the photograph was taken and must clearly identify the component by location within the site (e.g., the latitude and longitude of the component or by other descriptive landmarks visible in the picture).
- (C) Operators that use Method 21 to resurvey the repaired fugitive emissions components are subject to the resurvey provisions specified in 40 C.F.R. 60.5397b(h)(4)(iii)(A) and (B).
- (D) Operators that use OGI to resurvey the repaired fugitive emissions components are subject to the resurvey provisions specified in 40 C.F.R. 60.5397b(h)(4)(iv)(A) and (B).
- (E) For fugitive emissions identified using AVO detection methods, the operator may resurvey using those same methods, Method 21, or OGI. For operators that use AVO detection methods, a fugitive emissions component is repaired when there are no indications of fugitive emissions using these methods.

[40 C.F.R. 60.5397b(h)(4)(i)-(v), Subpart OOOOb]

*NSPS Subpart OOOOb Compliance Requirements*

34.3. *Well closure requirements.* The Permittee must complete the requirements specified as follows:

- a. Submit a well closure plan to the Administrator within 30 days of the cessation of production from all wells located at the well site as specified in 40 C.F.R. 60.5420b(a)(4)(i). The well closure plan must include, at a minimum, the following information:
  - (i) Description of the steps necessary to close all wells at the well site, including permanent plugging of all wells;
  - (ii) Description of the financial requirements and disclosure of financial assurance to complete closure; and
  - (iii) Description of the schedule for completing all activities in the well closure plan.
- b. Submit a notification as specified in 40 C.F.R. 60.5420b(a)(4)(ii) of intent to close the well site to the Administrator 60 days before the Permittee begin well closure activities.
- c. Conduct a survey of the well site using OGI, including each closed well, after completing all well closure activities outlined in the well closure plan specified in Condition 34.3.a. If any emissions are imaged by the OGI instrument, then the Permittee must take steps to eliminate those emissions, and the Permittee must resurvey the source of emissions. The Permittee must repeat steps to eliminate emissions and resurvey the source of emissions until no emissions are imaged by the OGI instrument. The Permittee must update the well closure plan specified in Condition 34.3.a to include the video of the OGI survey demonstrating closure of all wells at the site.

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

[40 C.F.R. 60.5397b(l), Subpart OOOOb]

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

34.4. *Recordkeeping requirements.* The Permittee shall maintain the records identified in 40 C.F.R. 60.5420b(c)(14), as applicable.

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

[40 C.F.R. 60.5420b(c)(14), Subpart OOOOb]

34.5. *Reporting requirements.* The Permittee must submit annual reports containing the information specified in Conditions 34.5.a and 34.5.b following the procedure specified in Condition 34.5.c. The initial annual report is due no later than 90 days after the end of the initial compliance period, as determined according to 40 C.F.R. 60.5410b(k). Subsequent annual reports are due no later than the same date each year as the initial annual report. If the Permittee owns or operates more than one affected facility, the Permittee may submit one report for multiple affected facilities, provided the report contains all of the information required as specified in Conditions 34.5.a and 34.5.b. Annual reports may coincide with Title V reports as long as all the required elements of the annual report are included. The Permittee may arrange with the Administrator a common schedule on which reports required by this part may be submitted, as long as the schedule does not extend the reporting period. The Permittee must submit the information in 40 C.F.R. 60.5420b(b)(1)(v), as applicable, for a well affected facility which undergoes a change of ownership during the reporting period.

[40 C.F.R. 71.6(a)(3)]  
[40 C.F.R. 60.5420b(b), Subpart OOOOb]

- a. The Permittee shall include the general information specified in 40 C.F.R. 60.5420b(b)(1), as applicable, in all reports.  
[40 C.F.R. 60.5420b(b)(1), Subpart OOOOb]
- b. For the fugitive emissions components affected facility, report the information specified in 40 C.F.R. 60.5420b(b)(9), as applicable.  
[40 C.F.R. 60.5420b(b)(9), Subpart OOOOb]
- c. The Permittee must submit the annual report using the appropriate electronic report template on the CEDRI website for subpart OOOOb and following the procedure specified in 40 C.F.R. 60.5420b(d). If the reporting form specific to subpart OOOOb is not available on the CEDRI website at the time that the report is due, the Permittee must submit the report to the Administrator at the appropriate address listed in 40 C.F.R. 60.4. Once the form has been available on the CEDRI website for at least 90 calendar days, the Permittee must begin submitting all subsequent reports via CEDRI.  
[40 C.F.R. 60.5420b(b)(15), Subpart OOOOb]

#### **40 C.F.R. Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAP)**

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

**35. NESHAP Subpart A Applicability.** The Permittee shall comply with the applicable requirements of 40 C.F.R. 63 Subpart A in accordance with the provisions for applicability of Subpart A in

- 35.1. Table 2 to NESHAP Subpart HH for EU IDs 36 and 37 listed in Table 1;
- 35.2. Table 8 to NESHAP Subpart ZZZZ for EU IDs 8 through 14, 40, 41, and 43 through 45 listed in Table 1; and
- 35.3. Table 3 to NESHAP Subpart CCCCC for EU IDs 38 and 39 listed in Table 1.

[18 AAC 50.040(c)(1), (13), (23), & (35), 50.040(j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1) & (a)(3)]  
[40 C.F.R. 63.1-63.15, Subpart A]  
[40 C.F.R. 73.764(a) & Table 2, Subpart HH]  
[40 C.F.R. 63.6665 & Table 8, Subpart ZZZZ]  
[40 C.F.R. 63.11130 & Table 3, Subpart CCCCCC]

**NESHAP Subpart HH<sup>15</sup> – Triethylene Glycol (TEG) Dehydration Units, EU IDs 36 and 37**

**36. NESHAP Subpart HH Applicability and General Requirements.** The Permittee shall comply with the applicable Subpart HH requirements for the affected TEG dehydration units (EU IDs 36 and 37) located at an oil and natural gas production facility classified as an area source of hazardous air pollutant (HAP) emissions.

[18 AAC 50.040(c)(13) & (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 63.760(a) & (b)(2), & 63.764(j), Subpart HH]

36.1. The Permittee shall maintain records of the annual facility natural gas or hydrocarbon liquid throughput each year and, upon request, submit such records to the EPA Administrator and Department. If the facility annual natural gas or hydrocarbon liquid throughput increases above the maximum natural gas or hydrocarbon liquid throughput calculated in 40 C.F.R. 63.760(a)(1)(i)(A) or (a)(1)(i)(B), the maximum natural gas or hydrocarbon liquid throughput must be recalculated using the higher throughput multiplied by a factor of 1.2.

a. As an alternative to calculating the maximum natural gas or hydrocarbon liquid throughput, the owner or operator of a new or existing source may use the facility's design maximum natural gas or hydrocarbon liquid throughput to estimate the maximum potential emissions.

[40 C.F.R. 63.760(a)(1) & (a)(1)(ii), Subpart HH]

36.2. Any source that determines it is not a major source but has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP (i.e., 50 percent of the major source thresholds), shall update its major source determination within 1 year of the prior determination or October 15, 2012, whichever is later, and each year thereafter, using gas composition data measured during the preceding 12 months.

[40 C.F.R. 63.760(c), Subpart HH]

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<sup>15</sup> The provisions of NESHAP Subpart HH listed in Condition 35.1 and Conditions 36 through 38 are current as amended through October 22, 2024. Should EPA promulgate revisions to this subpart, the Permittee shall be subject to the revised final provisions as promulgated and not the superseded provisions summarized in these conditions.

36.3. **NESHAP Subpart HH GAPCP.** At all times, the Permittee must operate and maintain EU IDs 36 and 37, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and GAPCP for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 C.F.R. 63.764(j), Subpart HH]

37. **NESHAP Subpart HH General Standards.** For the TEG dehydration units, EU IDs 36 and 37, the Permittee shall comply with the applicable standards specified in Condition 37.1.

[18 AAC 50.040(c)(13), (j)(4) & 50.326(j)]

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 63.760(b)(2) & 63.764(d)(2), & (e)(1), Subpart HH]

37.1. The Permittee shall comply with the following for affected sources not located in a UA plus offset and UC boundary:

a. **Glycol Circulation Rate.** Determine the optimum glycol circulation rate using the following equation:

$$L_{OPT} = 1.15 * \frac{3.0 \text{ gal TEG}}{\text{lb H}_2\text{O}} * \frac{(F * [I - O])}{24 \text{ hr/day}}$$

Where:

$L_{OPT}$  = Optimal circulation rate, gal/hr

F = Gas flowrate (MMscf/day)

I = Inlet water content (lb/MMscf)

O = Outlet water content (lb/MMscf)

3.0 = The industry accepted rule of thumb for a TEG-to-water ratio (gal TEG/lb H<sub>2</sub>O)

1.15 = Adjustment factor included for margin of safety

b. Operate the TEG dehydration unit such that the actual glycol circulation rate does not exceed the optimum glycol circulation rate determined in accordance with the equation above. If the TEG dehydration unit is unable to meet the sales gas specification for moisture content using the glycol circulation rate determined in accordance with the equation, the Permittee must

(i) calculate an alternate circulation rate using GRI-GLYCalc™, Version 3.0 or higher; and

- (ii) document why the TEG dehydration unit must be operated using the alternate circulation rate and submit this documentation with the initial notification in accordance with 40 C.F.R. 63.775(c)(7).
- c. Maintain a record of the determination specified in Condition 37.1.b, in accordance with the requirements in Condition 38.2 and submit the Initial Notification in accordance with 40 C.F.R. 63.775(c)(7). If operating conditions change and a modification to the optimum glycol circulation rate is required, the Permittee shall prepare a new determination in accordance with Condition 37.1.a or 37.1.b and submit the information specified under 40 C.F.R. 63.775(c)(7)(ii) through (v).

[40 C.F.R. 63.764(d)(2)(i)-(iii), Subpart HH]

**38. NESHAP Subpart HH Recordkeeping Requirements.** The Permittee shall maintain the records as follows:

[18 AAC 50.040(c)(13), (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(3)(ii)]  
[40 C.F.R. 63.774(b), (d), (f) & (g), Subpart HH]

- 38.1. Maintain files of all information (including all reports and notifications) required by NESHAP Subpart HH and the associated records specified in 40 C.F.R. 63.10(b)(2) for at least 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or period.

[40 C.F.R. 63.774(b)(1) & (2), Subpart HH]

- a. All applicable records shall be maintained in such a manner that they can be readily accessed.
- b. The most recent 12 months of records shall be retained on site or shall be accessible from a central location by computer or other means that provides access within 2 hours after a request.
- c. The remaining 4 years of records may be retained off-site.
- d. Records may be maintained in hard copy or computer-readable form including, but not limited to, on paper, microfilm, computer, floppy disk, magnetic tape, or microfiche.

[40 C.F.R. 63.774(b)(1)(i)-(iv), Subpart HH]

- 38.2. The Permittee must keep a record of the calculation used to determine the optimal glycol circulation rate in accordance with Condition 37.1.a or 37.1.b, as applicable.

[40 C.F.R. 63.774(f), Subpart HH]

- 38.3. For EU IDs 36 and 37, the Permittee shall maintain records of the following:

- a. occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control equipment and monitoring equipment;
- b. actions taken during periods of malfunction to minimize emissions in accordance with Condition 36.3; and

- c. corrective actions to restore malfunction process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[40 C.F.R. 63.774(g), Subpart HH]

### **NESHAP Subpart ZZZZ<sup>16</sup> – Stationary RICE, EU IDs 8 through 14**

**39. NESHAP Subpart ZZZZ Applicability.** The Permittee shall comply with applicable requirements for existing<sup>17</sup> (EU IDs 8 through 14) and new<sup>18</sup> (EU IDs 40, 41, and 43 through 45) stationary reciprocating internal combustion engines (RICE) located at an area source of HAP emissions.

39.1. For EU IDs 8 through 14, existing stationary RICE units, the Permittee shall at all times comply with Conditions 40 through 43.

39.2. For EU IDs 40, 41, and 43 through 45, new stationary RICE units, the Permittee shall meet the requirements of NESHAP Subpart ZZZZ by meeting the requirements of NSPS 60 Subpart JJJJ in Conditions 30 through 32. No further requirements apply for such engines under 40 C.F.R. 63.

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

[40 C.F.R. 71.6(a)(1)]

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

**40. NESHAP Subpart ZZZZ GAPCP, Operation and Maintenance Requirements.** The Permittee shall comply with the following:

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

[40 C.F.R. 71.6(a)(1) & (3)(i)]

40.1. At all times, operate and maintain EU IDs 8 through 14, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and GAPCP for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of EU IDs 8 through 14.

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

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

- a. the manufacturer's emission-related written instructions for operation and maintenance; or

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<sup>16</sup> The provisions of NESHAP Subpart ZZZZ listed in Condition 35.2 and Conditions 39 through 43 are current as amended through August 30, 2024. Should EPA promulgate revisions to this subpart, the Permittee shall be subject to the revised final provisions as promulgated and not the superseded provisions summarized in these conditions.

<sup>17</sup> In accordance with 40 C.F.R. 63.6590(a)(1)(iii), a stationary RICE located at an area source of HAP emissions is “existing” if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

<sup>18</sup> In accordance with 40 C.F.R. 63.6590(a)(2)(iii), a stationary RICE located at an area source of HAP emissions is “new” if you commenced construction of the stationary RICE on or after June 12, 2006.

- b. a maintenance plan developed by the Permittee which must provide, to the extent practicable, for the maintenance and operation of the engine(s) in a manner consistent with GAPCP for minimizing emissions.

[40 C.F.R. 63.6625(e), (e)(5), 63.6640(a), & Table 6 (item 9), Subpart ZZZZ]

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

[40 C.F.R. 63.6625(h) & Table 2d (item 1), Subpart ZZZZ]

**41. NESHAP Subpart ZZZZ Work and Management Practices Standards and Monitoring.** For EU IDs 8 through 14, the Permittee shall comply with the following work and management practices and monitoring requirements:

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

[40 C.F.R. 71.6(a)(1) & (3)(i)]

[40 C.F.R. 63.6603(a), (b), & (b)(1), & 63.6640(a), Subpart ZZZZ]

- 41.1. For EU IDs 8 through 14:

- a. Except during periods of startup, the Permittee shall meet the following requirements:
  - (i) Change oil and filter every 4,320 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, except as allowed by Condition 41.2;
  - (ii) Inspect spark plugs every 4,320 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; and
  - (iii) Inspect all hoses and belts every 4,320 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary.

[Table 2d (item 6 & Footnote 1), Subpart ZZZZ]

- 41.2. The Permittee has the option to utilize an oil analysis program in order to extend the specified oil change and filter requirements in Condition 41.1.a(i), as described below:

- a. The oil analysis must be performed at the same frequency specified for changing the oil and filter in Conditions 41.1.a(i).
- b. The analysis program must, at a minimum, analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows:
  - (i) Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new;

- (ii) Viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or
- (iii) Percent water content (by volume) is greater than 0.5.
- c. If all of the condemning limits in Conditions 41.2.b(i) through 41.2.b(iii) are not exceeded, the Permittee is not required to change the oil and filter.
- d. If any of the limits in Conditions 41.2.b(i) through 41.2.b(iii) is exceeded, the Permittee must change the oil and filter within 2 business days of receiving the results of the analysis.
  - (i) If the engine is not in operation when the results of the analysis are received, the Permittee must change the oil and filter within 2 business days or before commencing operation, whichever is later.
- e. The analysis program must be part of the maintenance plan for the engine.

[40 C.F.R. 63.6625(j) & Table 2d (Footnote 1), Subpart ZZZZ]

**42. NESHAP Subpart ZZZZ Recordkeeping Requirements.** The Permittee shall keep records, as follows:

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

- 42.1. If electing to operate and maintain EU IDs 8 through 14 according to a maintenance plan developed by the Permittee as allowed under Condition 40.2.b, keep records of the maintenance conducted on EU IDs 8 through 14 in order to demonstrate that the stationary RICE and after-treatment control device (if any) are operated and maintained according to the maintenance plan.

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

- 42.2. If electing to utilize the oil analysis program described in Condition 41.2, keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil and filter changes for the engine.

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

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

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

**43. NESHAP Subpart ZZZZ Reporting Requirements.** The Permittee shall report, as follows:

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

- 43.1. Include in the operating report required by Condition 82 a report of all deviations as defined in 40 C.F.R. 63.6675 and of each instance in which an applicable requirement in 40 C.F.R. 63, Subpart A (Table 8 to Subpart ZZZZ) was not met.

[40 C.F.R. 63.6640(e) & 63.6650(f) & (i), Subpart ZZZZ]

**NESHAP Subpart CCCCCC<sup>19</sup> – Gasoline Dispensing Facilities, EU IDs 38 and 39**

- 44. NESHAP Subpart CCCCCC Applicability.** The Permittee shall comply with applicable requirements for EU IDs 38 and 39, gasoline dispensing facilities located at an area source of HAP emissions.

- 44.1. For EU IDs 38 and 39, the Permittee shall, upon request by the EPA Administrator or the Department, demonstrate that monthly throughput is less than the 100,000-gallon threshold level.

[18 AAC 50.040(c)(35) & (j)(4) & 50.326(j)(4)]

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 63.11111(a), (c) & (e), Subpart CCCCCC]

- 45. NESHAP Subpart CCCCCC GAPCP.** The Permittee must, at all times, operate and maintain EU IDs 38 and 39, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and GAPCP for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the EPA Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of EU IDs 38 and 39.

[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 63.11115(a), Subpart CCCCCC]

- 46. NESHAP Subpart CCCCCC Emission Limitations and Management Practices.** For EU IDs 38 and 39, the Permittee shall comply with the following emission limitations and management practices:

[18 AAC 50.040(c)(35) & (j)(4) & 50.326(j)]

[40 C.F.R. 71.6(a)(1)]

- 46.1. The Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- a. Minimize gasoline spills;
- b. Clean up spills as expeditiously as practicable;
- c. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

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<sup>19</sup> The provisions of NESHAP Subpart CCCCCC listed in Condition 35.3 and Conditions 44 through 47 are current as amended through November 19, 2020. Should EPA promulgate revisions to this subpart, the Permittee shall be subject to the revised final provisions as promulgated and not the superseded provisions summarized in these conditions.

- d. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 63.11116(a) & 63.11117(a), Subpart CCCCCC]

- 46.2. The Permittee must only load gasoline into storage tanks at EU IDs 38 and 39 by utilizing submerged filling<sup>20</sup> and as specified in Condition 46.2.a. The applicable distance in Condition 46.2.a shall be measured from the point in the opening of the submerged fill pipe that is the greatest distance from the bottom of the storage tank.

[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 63.11117(b), Subpart CCCCCC]

- a. Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the tank.

[40 C.F.R. 63.11117(b)(2), Subpart CCCCCC]

- 46.3. The Permittee must have records available within 24 hours of a request by the EPA Administrator or Department to document your gasoline throughput.

[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 63.11117(d), Subpart CCCCCC]

**47. NESHAP Subpart CCCCCC Notification, Recordkeeping and Reporting Requirements.** The Permittee shall notify, keep records, and report as follows:

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

- 47.1. The Permittee must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in 40 C.F.R. 63.13, within 60 days of the applicable compliance date specified in 40 C.F.R. 63.11113(c). The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of NESHAP Subpart CCCCCC, and must indicate whether the facilities' monthly throughput is calculated based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks.

[40 C.F.R. 63.11117(e) & 63.11124(a)(2), Subpart CCCCCC]

- 47.2. The Permittee shall keep records as follows:

- a. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

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<sup>20</sup> *Submerged filling* means, for the purposes of 40 C.F.R. 63 Subpart CCCCCC, the filling of a gasoline storage tank through a submerged fill pipe whose discharge is no more than the applicable distance specified in 40 C.F.R. 63.11117(b) from the bottom of the tank. Bottom filling of gasoline storage tanks is included in this definition.

- b. Records of actions taken during periods of malfunction to minimize emissions in accordance with Condition 45, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[40 C.F.R. 71.6(a)(3)(ii)]  
[40 C.F.R. 63.11125(d) & 63.11115(b), Subpart CCCCCC]

- 47.3. The Permittee shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by the Permittee during a malfunction of an affected source to minimize emissions in accordance with Condition 45, including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred.

[40 C.F.R. 71.6(a)(3)(iii)]  
[40 C.F.R. 63.11126(b) & 63.11115(b), Subpart CCCCCC]

#### **40 C.F.R. Part 61 NESHAP**

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

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

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

#### **40 C.F.R. 68 Chemical Accident Prevention Provisions**

49. The Permittee shall comply with the requirements of 40 C.F.R. 68.

[18 AAC 50.040(j) & 50.326(j)]  
[40 C.F.R. 68; 40 C.F.R. 71.6(a)(3) & (c)(6)]

- 49.1. **Risk Management Plan (RMP) Requirements.** As part of the Annual Compliance Certification required by Condition 83, the Permittee shall certify compliance with all requirements of 40 C.F.R. 68 Subpart G including the registration and submission of the RMP.

[40 C.F.R. 68.215(a)(2), Subpart H]

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

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

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

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

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

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

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

### **NESHAP Applicability Determination Requirements**

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

53.1. Keep records of a determination that the stationary source is not subject to a relevant standard or other requirement established under 40 C.F.R. 63 as specified in 40 C.F.R. 63.10(b)(3).

53.2. If a source becomes affected by an applicable subpart of 40 C.F.R. 63, under the provisions of 40 C.F.R. 63.1(c)(5) or 63.5(b)(4), the Permittee shall notify the Administrator as required by the applicable subpart and in accordance with the applicable procedures of 40 C.F.R. 63.9(b) and shall comply with such standard by the compliance date established by the Administrator in the applicable subpart, in accordance with 40 C.F.R. 63.6(c).

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

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

### **Standard Terms and Conditions**

54. 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)]

55. 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)]

56. 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)]

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

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

58. **Assessable Emissions.** For each period from July 1 through the following June 30, the Permittee shall pay to the Department an annual emission fee based on the stationary source's assessable emissions, as determined by the Department under 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities 10 tons per year or greater. The quantity for which fees will be assessed is the lesser of the stationary source's

58.1. potential to emit of 3,461.55 TPY; or

58.2. 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]

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

- 59.1. No later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions, as determined in Condition 58.2. 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/>.
- 59.2. The Permittee shall include with the assessable emissions report all the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.
- 59.3. If no estimate is submitted on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit in Condition 58.1.

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

**60. Good Air Pollution Control Practice (GAPCP).** The Permittee shall do the following for EU IDs 1, 2, 24/25, and 27 through 33:

- 60.1. Perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;
- 60.2. Keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and
- 60.3. Keep a copy of either the manufacturer's or the operator's maintenance procedures.

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

**61. 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)]

**62. 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 PM from being emitted into the ambient air.

- 62.1. 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 62.1.a or to address the results of Department inspections that found potential problems; and
    - (ii) to prevent future dust problems.

- 62.2. The Permittee shall report according to Condition 64.3.

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

- 63. 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)]

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

- 64.1. 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 64.
- 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 64; or
  - (ii) the Department notifies the Permittee that it has found a violation of Condition 64.

- 64.2. 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 64; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

- 64.3. Reporting.** The Permittee shall report as follows:

- a. With each operating report under Condition 82, 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 81.

**65. Technology-Based Emission Standard.** If an unavoidable emergency, malfunction (as defined in 18 AAC 50.235(d)), or non-routine repair (as defined in 18 AAC 50.990(64)), causes emissions in excess of a technology-based emission standard<sup>21</sup> listed in Condition 50 (refrigerants), the Permittee shall

- 65.1. take all reasonable steps to minimize levels of emissions that exceed the standard, and
- 65.2. report in accordance with Condition 81.1.b; the report must include information on the steps taken to mitigate emissions and corrective measures taken or to be taken.

[18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]  
[40 C.F.R. 71.6(c)(6)]

### Open Burning Requirements

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

- 66.1. Keep written records to demonstrate that the Permittee complies with the requirements of 18 AAC 50.065. Upon request by the Department, submit copies of the records; and
- 66.2. Include this condition in the annual certification required under Condition 83.

[18 AAC 50.065, 50.040(j), & 50.326(j)]  
[40 C.F.R. 71.6(a)(3)]

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<sup>21</sup> *Technology-based emission standard* means a best available control technology standard (BACT); a lowest achievable emission rate standard (LAER); a maximum achievable control technology standard established under 40 C.F.R. 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

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

- 67. 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)]

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

[18 AAC 50.220(b)]

- 68.1. at a point or points that characterize the actual discharge into the ambient air; and
- 68.2. 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.

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

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

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

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

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

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

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

- 69.4. 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 and the form in Section 13 may be used to record data.

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

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

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

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

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

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

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

**70. 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)]

**71. Test Exemption.** The Permittee is not required to comply with Conditions 73, 74 and 75 when the exhaust is observed for visible emissions by Method 9.

[18 AAC 50.345(a)]

**72. 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)]

**73. Test Plans.** Except as provided in Condition 71, 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 67 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be performed without resubmitting the plan.

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

**74. Test Notification.** Except as provided in Condition 71, 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)]

- 75. Test Reports.** Except as provided in Condition 71, 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 78. 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)]

- 76. PM Calculations.** In source testing for compliance with the PM standards in Conditions 7 and 26.2, the three-hour average is determined using the average of three one-hour test runs.

[18 AAC 50.220(f)]

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

### **Recordkeeping Requirements**

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

- 77.1. Copies of all reports and certifications submitted pursuant to this section of the permit; and
- 77.2. Records of all monitoring required by this permit, and information about the monitoring, including:
  - a. the date, place, and time of sampling or measurements;
  - b. the date(s) analyses were performed;
  - c. the company or entity that performed the analyses;
  - d. the analytical techniques or methods used;
  - e. the results of such analyses; and,
  - f. the operating conditions as existing at the time of sampling or measurement.

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

### **Reporting Requirements**

**78. 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.

- 78.1. 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)]

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

79.1. 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)]

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

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

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

81.1. **Excess Emissions Reporting.** Except as provided in Condition 64, 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 81.1.d.
- d. Report all other excess emissions not described in Conditions 81.1.a, 81.1.b, and 81.1.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 82 for excess emissions that occurred during the period covered by the report, whichever is sooner.

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

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

**81.2. 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 2.3 and 5.3.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 82 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)]

**81.3. 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 15 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department’s Standard Permit Conditions webpage found at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

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

**82. Operating Reports.** During the life of this permit<sup>22</sup>, the Permittee shall submit to the Department an operating report in accordance with Conditions 78 and 79 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.

- 82.1. 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.

82.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 82.1, the Permittee shall identify

- a. the date of the excess emissions or permit deviation;
- b. the equipment involved;
- c. the permit condition affected;

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<sup>22</sup> *Life of this permit* is defined as the permit effective dates, including any periods of reporting obligations that extend beyond the permit effective dates. For example, if a permit expires prior to the end of a calendar year, there is still a reporting obligation to provide operating reports for the periods when the permit was in effect.

- d. a description of the excess emissions or permit deviation; and
  - e. any corrective action or preventive measures taken and the date(s) of such actions; or
- 82.3. When excess emissions or permit deviation reports have already been reported under Condition 81 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.
- 82.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 3.2.e and 8.1 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.
- 82.5. **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)(3)]  
[40 C.F.R. 71.6(a)(3)(iii)(A)]

**83. Annual Compliance Certification.** Each year by March 31, the Permittee shall compile and submit to the Department an annual compliance certification report according to Condition 79.

- 83.1. 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 89, 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.

- 83.2. **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.
- 83.3. In addition, submit a copy of the report directly to the Clean Air Act Compliance Manager, US EPA Region 10, ATTN: Air Toxics and Enforcement Section, Mail Stop: 20-C04, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188, or electronically to the EPA's CDX and CEDRI online reporting system accessible via [cdx.epa.gov](http://cdx.epa.gov).

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

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

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

[18 AAC 50.025(a)(4), 50.265(1), 50.265(4)(B), & 50.326(j)]  
[40 C.F.R. 71.6(a)(3)(iii)(A)]

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

- 85.1. **Every-year inventory.** Each year by April 30, if the stationary source's potential to emit (PTE) for the previous calendar year equals or exceeds:
- a. 250 TPY of NH<sub>3</sub>, PM<sub>10</sub>, PM<sub>2.5</sub> or VOC; or
  - b. 2,500 TPY of CO, NO<sub>x</sub>, or SO<sub>2</sub>.
- 85.2. **Triennial inventory.** Every third year by April 30, if the stationary source's PTE for the previous calendar year does not meet any of the emission thresholds in Condition 85.1.
- 85.3. For reporting under Condition 85.2, the Permittee shall report the annual emissions and the required data elements under Condition 85.1 every third year for the previous calendar year as scheduled by the EPA.<sup>23</sup>

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<sup>23</sup> The calendar years for which reports are required are based on the triennial reporting schedule in 40 C.F.R. 51.30(b)(1), which requires states to report emissions data to the EPA for inventory years 2011, 2014, 2017, 2020, and every 3rd year thereafter. Therefore, the Department requires Permittees to report emissions data for the same inventory years by April 30 of the following year (e.g., triennial emission inventory report for 2026 is due April 30, 2027, triennial emission inventory report for 2029 is due April 30, 2030, etc.).

- 85.4. For each emissions unit and the stationary source, include in the report the required data elements<sup>24</sup> contained within the form included in the Emission Inventory Instructions available at the Department's AOS system on the Point Source Emission Inventory webpage at <http://dec.alaska.gov/Applications/Air/airtoolsweb/PointSourceEmissionInventory>.
- 85.5. Submit the report in accordance with the submission instructions on the Department's Standard Permit Conditions webpage at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-xv-and-xvi-submission-instructions/>.

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

- 86. Consistency of Reporting Methodologies.** The Permittee 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 C.F.R. Part 51, Subpart A.

- 86.1. For the purposes of reporting actual or assessable emissions required under Condition 85 and Condition 58.2, the Permittee shall use consistent pollutant-specific emission factors and calculation methods for all reporting requirements for the stationary source.

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

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

- 87.1. **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 82 for the period covered by the report, a copy of any NSPS and NESHAP reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10. For reports previously submitted to ADEC or submitted through CDX/CEDRI, state in the operating report the date and a brief description of each of the online reports submitted during the reporting period.

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

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

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<sup>24</sup> The required data elements to be reported to the EPA are outlined in 40 C.F.R. 51.15 and Tables 2a and 2b to Appendix A of 40 C.F.R. 51 Subpart A.

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

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

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

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

[40 C.F.R. 71.6(c)(6)]

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

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

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

- 89.1. 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;
- 89.2. The information shall be submitted, as follows: (1) to the EPA's CDX and CEDRI online reporting system accessible via [cdx.epa.gov](http://cdx.epa.gov), or (2) as an email attachment to the EPA's air permits mailbox ([R10\\_Air\\_Permits@epa.gov](mailto:R10_Air_Permits@epa.gov)), or (3) as a hardcopy by mail (only if absolutely necessary) to the Part 70 Operating Permit Program, US EPA Region 10, Air Permits and Toxics Branch, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188, listed in order of EPA's preference;
- 89.3. 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
- 89.4. 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 C.F.R. 71.10(d)(1)]

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

[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(8)]

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

- 91.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 91.2. 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;
- 91.3. The change shall not qualify for the shield under 40 C.F.R. 71.6(f); and

91.4. The Permittee shall keep a record describing changes made at the stationary source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.

[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(12)]

**92. Operational Flexibility.** The Permittee may make CAA Section 502(b)(10)<sup>25</sup> changes within the permitted stationary source without requiring a permit revision if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions).

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

92.2. For each such change, the notification required by Condition 92.1 shall include a brief description of the change within the permitted stationary source, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

92.3. The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 92.

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

**93. Permit Renewal.** To renew this permit, the Permittee shall submit to the Department an application under 18 AAC 50.326 no sooner than **<18 months before the expiration date of this permit>** and no later than **<6 months before the expiration date of this permit>**, and according to the submittal instructions in Conditions 79 and 89. The renewal application shall be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the stationary source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 C.F.R. 71.7(b) and 71.5(a)(1)(iii).

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

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<sup>25</sup> As defined in 40 C.F.R. 71.2, "CAA Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

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

### **General Compliance Requirements**

- 94.** Compliance with permit terms and conditions is considered to be compliance with those requirements that are
- 94.1. included and specifically identified in the permit; or
  - 94.2. determined in writing in the permit to be inapplicable.
- [18 AAC 50.326(j)(3) & 50.345(a) & (b)]
- 95.** 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
- 95.1. an enforcement action;
  - 95.2. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or
  - 95.3. denial of an operating permit renewal application.
- [18 AAC 50.040(j), 50.326(j) & 50.345(a) & (c)]
- 96.** For applicable requirements with which the stationary source is in compliance, the Permittee shall continue to comply with such requirements.
- [18 AAC 50.040(j)(3) & (4) & 50.326(j)]  
[40 C.F.R. 71.6(c)(3) & 71.5(c)(8)(iii)(A)]
- 97.** 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)]
- 98.** 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
- 98.1. enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
  - 98.2. have access to and copy any records required by the permit;
  - 98.3. inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
  - 98.4. 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)]

### **Compliance Schedule**

- 99.** 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 C.F.R. 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.

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

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

100.2. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.

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

**101.** Table 2 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 2 becomes applicable during the permit term, the Permittee shall comply with such requirements on a timely basis. The Permittee shall also provide appropriate notification and apply for a construction or minor permit and/or an operating permit revision, as necessary.

[18 AAC 50.040(j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(f)(1)(ii)]

**Table 2 - Permit Shields Granted**

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
1, 46, Drill Rig Boilers and Heater	40 C.F.R. 60 Subpart D, Da	Each of EU IDs 1, 46, and Drill Rig Boilers and Heater has a heat input less than 250 MMBtu/hr.
1, 46, Drill Rig Boilers and Heater	40 C.F.R. 60 Subpart Db	Each of EU IDs 1, 46, and Drill Rig Boilers and Heater has a heat input less than 100 MMBtu/hr.
1, 46, Drill Rig Boilers and Heater	40 C.F.R. 60 Subpart Dc	Each of EU IDs 1, 46, and Drill Rig Boilers and Heater has a heat input of less than 10 MMBtu/hr.
1, 46	40 C.F.R. 63 Subpart JJJJJ	EUs ID 1 and 46 fire only fuel gas.
2	40 C.F.R. 60 Subpart E	EU ID 2 does not have the capacity to burn more than 50 tons per day.
2	40 C.F.R. 60 Subparts Ec	EU ID 2 is not designated as a hospital/medical/infectious waste unit.
2	40 C.F.R. 60 Subpart AAAA	EU ID 2 is not designated as a small municipal waste combustion unit
2	40 C.F.R. 60 Subpart CCCC	EU ID 2 commenced construction prior to November 30, 1999, and has not been modified or reconstructed thereafter.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
2	40 C.F.R. 60 Subpart EEEE	EU ID 2 commenced construction prior to December 9, 2004, and has not been modified or reconstructed thereafter.
2	40 C.F.R. 62 Subpart IIIa	Small, remote incinerators exemption. Incineration units located in the State of Alaska are not subject to 40 C.F.R. 62 Subpart IIIa as specified in the Consolidated Appropriations Act of 2024, H.R. 4366, Section 432 and 40 C.F.R. 62.14530a(1). The CISWI unit, EU ID 2, meets these criteria.
2	18 AAC 50.050(b)	EU ID 2 has a capacity of less than 1,000 lbs/hr. There are no other incinerators within the stationary source.
8 through 14	40 C.F.R. 60 Subpart JJJJ	Engines commenced construction prior to June 12, 2006, and have not been modified or reconstructed thereafter.
8 through 14, 40, 41	40 C.F.R. 63 Subpart ZZZZ, §63.6600, 63.6601, 63.6602, 63.6610, 63.6611	Swanson River Field is not a major source of HAPs.
8 through 14	40 C.F.R. 63 Subpart ZZZZ, §63.6603(b)-(e), 63.6604, 63.6612, 63.6615, 63.6620, 63.6625(a)-(d), (f), & (i), 63.6630(c), (d), & (e), 63.6635, 63.6640(c), (d), & (f), 63.6645, 63.6650(a)-(e) & (g)-(i), 63.6655(a)-(d) & (f)	Engines are not subject to any numerical emission limits, are 2SLB engines, are greater than 500 horsepower, and are non-emergency engines.
36, 37	40 C.F.R. 63 Subpart HH, §63.762, 63.765, 63.766, 63.769, 63.771, 63.772 [except (b)], 63.774 [except (a), (b)(1), (b)(2), (d), & (f)], 63.775 [except (a), (c)(1), (d)(7), (d)(9), (d)(10), & (f)]	Swanson River Field is an area source of HAPs emissions not located within an UA offset plus UC boundary.
38, 39	40 C.F.R. 63 Subpart CCCCC, §63.11118, 63.11120, 63.11126	Each gasoline dispensing facility (GDF) has a gasoline throughput of less than 100,000 gallons per month. The reporting provisions do not apply to GDFs with a gasoline throughput of less than 100,000 gallons per month. The Subpart CCCCC permit shields are applicable only if the gasoline throughput for each GDF is less than 100,000 gallons per month.
38, 39	40 C.F.R. 63 Subpart CCCCC, §63.11117(b)(1) & (b)(3)	Submerged filled pipes were installed at each GDF after November 9, 2006.
38, 39	40 C.F.R. 63 Subpart CCCCC, §63.11117(c)	Hilcorp does not operate any gasoline tanks less than 250 gallons at Swanson River.
40, 41	40 C.F.R. 60 Subpart JJJJ	EU IDs 40 and 41 commenced construction after June 12, 2006, but were manufactured prior to the July 1, 2008, applicability date for engines with a maximum engine power less than 500 Hp.
Drill Rig Boilers and Heater	40 C.F.R. 63 Subpart JJJJJ	Units are temporary.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Drill Rig Engines	40 C.F.R. 60 Subpart IIII, 40 C.F.R. 63 Subpart ZZZZ	Drill rig engines are nonroad and not stationary emissions units.
Storage Vessels Other Than Tank 22	40 C.F.R. 60 Subparts K, Ka, Kb, Kc	All storage vessels for petroleum liquids and volatile organic liquids at this stationary source were constructed, reconstructed, or modified prior to June 11, 1973. Therefore, the requirements of Subparts K, Ka, and Kb do not apply. The permit shields for Subparts K, Ka, Kb, and Kc only apply to the currently installed units until modified, reconstructed, or replaced.
Tank 22	40 C.F.R. 60 Subparts K, Ka, Kb, Kc	Tank 22 commenced construction after July 23, 1984. Therefore, the requirements of NSPS Subparts K and Ka do not apply. Tank 22 is also a “process tank,” not a “storage vessel,” and is thus exempt from NSPS Subpart Kb and Kc.
Stationary Source-wide	40 C.F.R. 60 Subparts D, Da, Db, Dc	No affected EUs within the permitted stationary source.
Stationary Source-wide	40 C.F.R. 60 Subpart KKK	Swanson River Field is not currently engaged in “the extraction of natural gas liquids from field gas, fractionation of mixed natural gas liquids to natural gas products, or both” (i.e., is not a natural gas processing plant as defined at 40 C.F.R. 60.631). Therefore, the requirements of this rule do not apply to this stationary source. This shield only applies, however, to the extent that Swanson River Field does not engage in these operations.
Stationary Source-wide	40 C.F.R. 60 Subpart LLL	Pursuant to 40 C.F.R. 60.641, affected equipment includes each sweetening unit, and each sweetening unit followed by a sulfur recovery unit. This stationary source does not have any sweetening units. Therefore, the requirements of Subpart LLL do not apply.
Stationary Source-wide	40 C.F.R. 61 Subpart J	Stationary source does not contain any equipment in benzene service.
Stationary Source-wide	40 C.F.R. 61, Subparts A, V	Per 40 C.F.R. 61.240(b), a facility must be subject to a specific subpart of 40 C.F.R. 61 to be subject to this subpart.
Stationary Source-wide	40 C.F.R. 63 Subpart R	40 C.F.R. 63 Subpart R applies to bulk gasoline terminals and pipeline breakout stations located at a major source of HAPs. This stationary source is not a major source of HAPs. Therefore, the requirements of Subpart R do not apply.
Stationary Source-wide	40 C.F.R. 63 Subpart HHH	Stationary source is not a “major source” of HAPs as defined in 40 C.F.R. 63.1271.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Stationary Source-wide	40 C.F.R. 63 Subpart EEEE	This stationary source is exempt from the requirements of Subpart EEEE under 40 C.F.R. 63.2334(c)(1).
Stationary Source-wide	40 C.F.R. 63 Subpart DDDDD	This stationary source is not a “major source” of HAPs as defined in 40 C.F.R. 63.2.
Stationary Source-wide	40 C.F.R. 63 Subpart GGGGG	The site remediation at the Pipe and Supply Yard does not meet all of the criteria at 40 C.F.R. 63.7881(c) and, therefore, is not an affected facility.
Stationary Source-wide	40 C.F.R. 63 Subpart BBBBBB	40 C.F.R. 63 Subpart BBBBBB applies to gasoline storage tanks, gasoline loading racks, vapor collection-equipped cargo tanks, and equipment components in vapor or liquid gasoline service at a Gasoline Distribution Bulk Terminal, Bulk Plant, or Pipeline Facilities that meets the criteria specified in Tables 1 through 3 of this subpart. This stationary source is not a Gasoline Distribution Bulk Terminal, Bulk Plant, or Pipeline Facility. Therefore, the requirements of Subpart BBBBBB do not apply.
Stationary Source-wide	40 C.F.R. 63 Subpart JJJJJ	No affected EUs within the permitted stationary source.



**Section 12. Approved Drilling Rigs<sup>26</sup>**

Equipment Type	Drilling Rig								
	Nabors 160 <sup>1</sup>			Inlet Drilling CC-1			Nordic 5		
	Equipment	Rating	Units	Equipment	Rating	Units	Equipment	Rating	Units
Engines	Cat D-398	800	kW	Cat 3408	275	kW	Cat 3406	340	kW
	Cat D-398	800	kW	Cat 3408	275	kW	Cat 3406	340	kW
	Cat D-398	800	kW	HMI	350	kW	Cat 3408	340	kW
	Cat D-398	800	kW	Cat 3408	275	kW	Cat 3412	560	kW
	Cat 3306	120	kW	Cat 3408	275	kW	KVA	75	kW
				Cat 3406 or DD 60	340 or 350	kW	Cat 3406 or DD 60	340 or 350	kW
Boilers and Heaters	Boiler	6.69	MMBtu/hr	Boiler	3.3	MMBtu/hr	Boiler	2.0	MMBtu/hr
	Boiler	6.69	MMBtu/hr	Heater	4.0	MMBtu/hr	Boiler	2.0	MMBtu/hr
	Heater	4.2	MMBtu/hr						
Test Flare	Flare	300	MMscf/yr	Flare	300	MMscf/yr	Flare	300	MMscf/yr

<sup>1</sup> Nabors 160 is the previously modeled drill rig. Modeled emissions were based on AP-42 emission factors.

Equipment Type	Drilling Rig								
	Drillers 6TD			Nabors 129 or 130			Marathon Glacier		
	Equipment	Rating	Units	Equipment	Rating	Units	Equipment	Rating	Units
Engines	DD 2000	634	kW	Cat 3412	656	kW	Cat 3406	340	kW
	DD 2000	634	kW	Cat 3412	560	kW	Cat 3406	340	kW
	DD 60	475	kW	Cat 3412	560	kW	Cat 3406	340	kW
	Deere	40	kW	Cat 3406	388	kW	Cat 3406	340	kW
	Cat 3406	340	kW	Cat 3306	239	kW	Cat 3406	340	kW
	Cat 3406 or DD 60	340 or 350	kW	Cat 3406 or DD 60	340 or 350	kW	Cat 3406 or DD 60	340 or 350	kW
Boilers and Heaters	Boiler	2.7	MMBtu/hr	Boiler	3.3	MMBtu/hr	Boiler	3.3	MMBtu/hr
				Heater	3.5	MMBtu/hr			
Test Flare	Flare	300	MMscf/yr	Flare	300	MMscf/yr	Flare	300	MMscf/yr

<sup>26</sup> The approved drill rigs in Section 12 from the Cook Inlet Onshore Drilling and Well Testing Program are part of the stationary source (i.e., Swanson River Field). Only emissions units on the drill rig are listed in the tables and subject to the overall rated power capacity limit.

Equipment Type	Drilling Rig					
	AWS #1			Kuukpik #5		
	Equipment	Rating	Units	Equipment	Rating	Units
Engines	DD 60	354	kW	DDEC IV	634	kW
				DDEC IV	634	kW
				DD 60	450	kW
				DD 60	450	kW
				Unknown	75	kW
Boilers and Heaters	Heater	1.0	MMBtu/hr	Boiler	3.5	MMBtu/hr
	Heater	1.0	MMBtu/hr	Boiler	3.5	MMBtu/hr
	Heater	3.5	MMBtu/hr	Heater	3.5	MMBtu/hr
Test Flare	Flare	300	MMscf/yr	Flare	300	MMscf/yr

Equipment Type	Drilling Rig					
	Rig 147			Rig 169		
	Equipment	Rating	Units	Equipment	Rating	Units
Engines	Detroit Diesel 12V200S12	850	Hp	Detroit Diesel 12V200S12	850	Hp
	Detroit Diesel 12V200S12	850	Hp	Detroit Diesel 12V200S12	850	Hp
	Detroit Diesel 6063HV39	630	Hp	Detroit Diesel 6063HV39	630	Hp
	Detroit Diesel 6063HV35	635	Hp	Detroit Diesel 6063HV35	635	Hp
	Detroit Diesel 6063HV35	635	Hp	Detroit Diesel 6063HV35	635	Hp
	Detroit Diesel 6063HV35	635	Hp	Detroit Diesel 6063HV35	635	Hp
Boilers and Heaters	York-Shipley Boiler	4.18	MMBtu/hr	Hurst Boiler NB-13376	8.36	MMBtu/hr
	Pendell Ltd Boiler	3.76	MMBtu/hr	Volcano International Boiler	3.76	MMBtu/hr
Test Flare						

Equipment Type	Drilling Rig		
	Generic Drill Rig		
	Equipment	Rating	Units
Engines	Engines	Total kW $\leq$ 3,320 (Nabors 160 total kW)	kW
Boilers and Heaters	Boilers and Heaters	Total MMBtu/hr $\leq$ 17.58 (Nabors 160 total MMBtu/hr)	MMBtu/hr
Test Flare	Flare	Total MMscf/yr $\leq$ 300 (Nabors 160 total MMscf/yr)	MMscf/yr

## Section 13. Visible Emissions Forms

### VISIBLE EMISSION OBSERVATION FORM

This form is designed to be used in conjunction with EPA Method 9, “Visual Determination of the Opacity of Emissions from Stationary Sources.” Temporal changes in emission color, plume water droplet content, background color, sky conditions, observer position, etc. should be noted in the comments section adjacent to each minute of readings. Any information not dealt with elsewhere on the form should be noted under additional information. Following are brief descriptions of the type of information that needs to be entered on the form: for a more detailed discussion of each part of the form, refer to “Instructions for Use of Visible Emission Observation Form” (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
City	State	Zip	Min	45	Comments	
Phone # (Key Contact)	Stationary Source ID Number		1			
Process Equipment	Operating Mode		2			
Control Equipment	Operating Mode		3			
Describe Emission Point/Location			4			
			5			
Height above ground level	Height relative to observer	Clinometer Reading	6			
Distance From Observer		Direction From Observer		7		
Start	End	Start	End	8		
Describe Emissions & Color			9			
Start	End		10			
Visible Water Vapor Present? If yes, determine approximate distance from the stack exit to where the plume was read			11			
No	Yes		12			
Point in Plume at Which Opacity Was Determined			13			
Describe Plume Background		Background Color		14		
Start	Start		15			
End	End		16			
Sky Conditions:			17			
Start	End		18			
Wind Speed		Wind Direction From		19		
Start	End	Start	End	20		
Ambient Temperature	Wet Bulb Temp	RH percent		21		
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read 2 Wind Direction From			22			
3 Observer Location	4 Sun Location	5 North Arrow	6 Other Stacks	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			
Certified By:			Date			
<b>Data Reduction:</b>						
Duration of Observation Period (minutes):			Duration Required by Permit (minutes):			
Number of Observations:			Highest Six-Minute Average Opacity (%):			
Number of Observations exceeding 20%:			Highest 18-Consecutive-Minute Average Opacity (%)(engines and turbines only)			
In compliance with six-minute opacity limit? (Yes or No)						
<b>Average Opacity Summary:</b>						
Set Number	Time		Opacity		Comments	
	Start	End	Sum	Average		

**Section 14. SO<sub>2</sub> Material Balance Calculation**

If a fuel shipment contains more than 0.75 percent sulfur by weight, calculate the three-hour exhaust concentration of SO<sub>2</sub> using the following equations:

A. = 31,200 x (wt%**S**<sub>fuel</sub>) = 31,200 x \_\_\_\_\_ = \_\_\_\_\_

B. = 0.148 x (wt%**S**<sub>fuel</sub>) = 0.148 x \_\_\_\_\_ = \_\_\_\_\_

C. = 0.396 x (wt%**C**<sub>fuel</sub>) = 0.396 x \_\_\_\_\_ = \_\_\_\_\_

D. = 0.933 x (wt%**H**<sub>fuel</sub>) = 0.933 x \_\_\_\_\_ = \_\_\_\_\_

E. = B + C + D = \_\_\_\_\_ + \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

F. = 20.9 - (vol%**O**<sub>2, exhaust</sub>) = 20.9 - \_\_\_\_\_ = \_\_\_\_\_

G. = (vol%**O**<sub>2, exhaust</sub>) ÷ F = \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_

H. = 1 + G = 1 + \_\_\_\_\_ = \_\_\_\_\_

I. = E x H = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

**SO<sub>2</sub> concentration** = A ÷ I = \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ ppm

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

The fuel weight percent of sulfur (wt%**S**<sub>fuel</sub>) is obtained pursuant to Condition 12.1.a(ii) or Condition 12.1.b. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

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

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

[18 AAC 50.346(c)]

**Section 15. Notification Form<sup>27</sup>**

Swanson River Field

AQ0059TVP04

Stationary Source Name

Air Quality Permit Number.

Hilcorp Alaska, LLC

Company Name

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

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

Time: \_\_\_\_ : \_\_\_\_

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

Begin: Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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

End: Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

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

**What was the duration of the event/deviation?** \_\_\_\_ : \_\_\_\_ (hrs:min) or \_\_\_\_ days

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

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

Excess Emissions - Complete Section 1 and Certify

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

Deviation from Permit Conditions - Complete Section 2 and Certify

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

Deviation from COBC<sup>28</sup>, CO<sup>29</sup>, or Settlement Agreement - Complete Section 2 and Certify

<sup>27</sup> Revised as of July 22, 2020.

<sup>28</sup> Compliance Order by Consent

<sup>29</sup> Compliance Order

### Section 1. Excess Emissions

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

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

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

(c) **Description**

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

(d) **Emissions Units (EU) Involved:**

Identify the emissions units involved in the event, using the same identification number and name as in the permit. Identify each emission standard potentially exceeded during the event and the exceedance.

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

(e) **Type of Incident:** (Please check all that apply and provide the value requested, if any):

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

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

Control Equipment Down

Fugitive Emissions

Emission Limit Exceeded

Marine Vessel Opacity

Flaring

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

(f) **Corrective Actions:**

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

(g) **Unavoidable Emissions:**

Do you intend to assert that these excess emissions were unavoidable?

YES

NO

Do you intend to assert the affirmative defense of 18 AAC 50.235?

YES

NO

**Certify Report (go to end of form)**

### Section 2. Permit Deviations

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

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

(b) **Emissions Units (EU) Involved:**

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

EU ID	EU Name	Permit Condition /Potential Deviation

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

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

**(d) Corrective Actions:**

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

**Certification:**

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

Printed Name: \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Signature: \_\_\_\_\_ Phone number \_\_\_\_\_

***NOTE:*** *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 78.)*

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)]