

# DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## AIR QUALITY OPERATING PERMIT

Permit No. AQ0091TVP03

Issue Date: Public Comment- April 11, 2025

Expiration Date: [Five Years]

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

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

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

Citations listed herein are contained within 18 AAC 50 dated January 2025, Register 252. 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. 9623-AA007, Minor Permit No. AQ0091MSS03 Revisions 1 & 2, and Minor Permit No. AQ0091MSS04 have been incorporated into this operating permit.

Upon effective date of this permit, Operating Permit No. AQ0091TVP02 Revision 1, 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

AAAQS .....	Alaska Ambient Air Quality Standards	GPH.....	gallons per hour
AAC.....	Alaska Administrative Code	HAPs .....	hazardous air pollutants [as defined in AS 46.14.990]
ADEC .....	Alaska Department of Environmental Conservation	hp.....	horsepower
Administrator.....	EPA and the Department.	H <sub>2</sub> S .....	Hydrogen Sulfide
AOS .....	Air Online Services	ICE .....	internal combustion engine
AS.....	Alaska Statutes	IEU .....	insignificant emissions unit
ASTM.....	American Society for Testing and Materials	ISO .....	operating conditions corresponding to sea level and 59 deg. F
BACT .....	Best Available Control Technology	kPa.....	kilopascals
bbls .....	barrel(s)	kW .....	kilowatt
Bhp .....	boiler horsepower	LAER .....	Lowest Achievable Emission Rate
bhp.....	brake horsepower	LHV.....	lower heating value
CDX.....	Central Data Exchange	MACT .....	Maximum Achievable Control Technology [MACT as defined in 40 C.F.R. 63]
CEDRI.....	Compliance and Emissions Data Reporting Interface	MMBtu.....	million British thermal units
C.F.R. ....	Code of Federal Regulations	MMBtu/hr.....	million British thermal units per hour
CAA or The Act .	Clean Air Act	MMscf.....	million standard cubic feet
CH <sub>4</sub> .....	methane	MMscf/hr.....	million standard cubic feet per hour
C <sub>2</sub> H <sub>6</sub> .....	ethane	MR&R.....	monitoring, recordkeeping, and reporting
CI.....	compression ignition	NAICS.....	North American Industrial Classification System
CMS.....	continuous monitoring system	NESHAP .....	National Emission Standards for Hazardous Air Pollutants [as contained in 40 C.F.R. 61 and 63]
CO .....	carbon monoxide	N <sub>2</sub> .....	nitrogen
CO <sub>2</sub> .....	carbon dioxide	NH <sub>3</sub> .....	ammonia
CO <sub>2</sub> e .....	CO <sub>2</sub> -equivalent	NO <sub>x</sub> .....	nitrogen oxides
CROMERR.....	Cross-Media Electronic Reporting Rule	N <sub>2</sub> O.....	Nitrous Oxide
Department .....	Alaska Department of Environmental Conservation	NRE.....	nonroad engine
dscf .....	dry standard cubic foot	NSPS .....	New Source Performance Standards [as contained in 40 C.F.R. 60]
EE/PD.....	excess emissions/permit deviation	O&M .....	operation and maintenance
EPA .....	US Environmental Protection Agency	O <sub>2</sub> .....	oxygen
ERT .....	Electronic Reporting Tool	ORL.....	Owner Requested Limit
EU.....	emissions unit	PAL .....	plantwide applicability limitation
EU ID .....	emissions unit identification number	Pb.....	lead
FAHS.....	Federal Aid Highway System	PM .....	particulate matter
GACT .....	Generally Available Control Technology	PM <sub>10</sub> .....	particulate matter less than or equal to a nominal 10 microns in diameter
GAPCP .....	Good Air Pollution Control Practice		
GHG .....	greenhouse gas		
gr/dscf.....	grain per dry standard cubic foot (1 pound = 7000 grains)		

PM<sub>2.5</sub> .....particulate matter less than or equal  
to a nominal 2.5 microns in diameter  
ppm .....parts per million  
ppmv, ppmvd.....parts per million by volume on a dry  
basis  
PSD.....prevention of significant  
deterioration  
psia.....pounds per square inch (absolute)  
psi .....pounds per square inch (pressure)  
PTE.....potential to emit  
RICE.....reciprocating internal combustion  
engine  
RM.....Reference Method  
S.....Sulfur  
scf .....standard cubic feet  
SI .....spark ignition

SIC..... Standard Industrial Classification  
SIP ..... State Implementation Plan  
SO<sub>2</sub> ..... sulfur dioxide  
SPC..... Standard Permit Condition  
TPH ..... tons per hour  
TPY ..... tons per year  
VE ..... visible emissions  
VOC ..... volatile organic compound [as  
defined in 40 C.F.R. 51.100(s)]  
VOL..... volatile organic liquid [as defined in  
40 C.F.R. 60.111b, Subpart Kb]  
vol% ..... volume percent  
wt% ..... weight percent  
wt%<sub>fuel</sub> ..... weight percent of sulfur in fuel

## Section 1. Stationary Source Information

### Identification

Permittee:	<b>Hilcorp Alaska, LLC</b> P.O. Box 244027 Anchorage, AK 99524	
Stationary Source Name:	<b>Tyonek Platform</b>	
Location:	61° 04' 34.3" North; 150° 57' 02.6" West (NAD83)	
Physical Address:	Upper Cook Inlet, AK	
Owner/Operator:	<b>Hilcorp Alaska, LLC</b> P.O. Box 244027 Anchorage, AK 99524	
Permittee's Responsible Official:	Trudi Hallett, Asset Team Lead Hilcorp Alaska, LLC P.O. Box 244027 Anchorage, AK 99524	
Designated Agent:	CT Corporation System 9360 Glacier Highway, Suite 202 Juneau, AK 99801	
Stationary Source and Building Contact:	Drew Anderson, Environmental Specialist Hilcorp Alaska, LLC P.O. Box 244027 Anchorage, AK 99524 (907) 777-8488 <a href="mailto:ananderson@hilcorp.com">ananderson@hilcorp.com</a>	
Fee Contact:	Hilcorp Accounts Payable P.O. Box 61529 Houston, TX 77208 (713) 209-2400	
Permit Contact:	Drew Anderson, Environmental Specialist Hilcorp Alaska, LLC P.O. Box 244027 Anchorage, AK 99524 (907) 777-8488 <a href="mailto:ananderson@hilcorp.com">ananderson@hilcorp.com</a>	
Process Description:	SIC Code	1311 - Crude Petroleum and Natural Gas
	NAICS Code:	211120 - Crude Petroleum 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 A and Table B have specific monitoring, recordkeeping, or reporting conditions in this permit. Emissions unit descriptions and ratings are given for identification purposes only.

**Table A - Emissions Unit Inventory**

EU ID <sup>1</sup>	Emissions Unit Name	Emissions Unit Description	Rating/Size	Installation Date
<b>Gas Fired Turbines</b>				
1	TY-C-4101A	Solar Centaur T-4700 Turbine Compressor No. 1	4700 hp ISO (46.3 MMBtu/hr LHV @ 0°F)	1999
2	TY-C-4101B	Solar Centaur T-4700 Turbine Compressor No. 2	4700 hp ISO (46.3 MMBtu/hr LHV @ 0°F)	1999
3	TY-C-4102A	Solar Taurus 60 T-7300S Turbine Compressor No. 3	7170 hp ISO (61.4 MMBtu/hr LHV @ 0°F)	2000
4	TY-C-4102B	Solar Taurus 60 T-7300S Turbine Compressor No. 4	7170 hp ISO (61.4 MMBtu/hr LHV @ 0°F)	2000
<b>Gas Fired Engines &amp; Heaters</b>				
8	TY-G-3201A	Waukesha L-7042G Electric Generator Engine No. 1 with air-fuel controllers and catalytic converters	810 hp (604 kW)	1968
9	TY-G-3201B	Waukesha L-7042G Electric Generator Engine No. 4 with air-fuel controllers and catalytic converters	810 hp (604 kW)	1968
10	Gas Heater	BS&B Glycol Heater No. 1	11.1 MMBtu/hr (heat input; HHV)	1968
12	Gas Heater	BS&B Glycol Heater No. 3	11.1 MMBtu/hr (heat input; HHV)	1968
<b>Diesel Fired Engines</b>				
20	TY-G-3502A	Caterpillar D-398 Standby Electric Generator Engine No. 1	795 hp (593 kW)	1968
21	TY-G-3502B	Caterpillar D-398 Standby Electric Generator Engine No. 2	795 hp (593 kW)	1968
24A <sup>2</sup>	TY-CR-0001	Caterpillar C9.3 MY 2013 Tier 4i Crane Engine	350 hp (261 kW)	2013
25B <sup>2</sup>	TY-CR-0002	John Deere 6135HF485F MY 2008 Tier 3 Crane Engine	500 hp (373 kW)	2022
28	TY-C-0015	John Deere 4039DF001 Air Compressor Engine	80 hp	1992
33	TY-P-2809A	Caterpillar 3306 Firewater Engine No. 1	231 hp	2002
34	TY-P-2809B	Caterpillar 3306 Firewater Engine No. 2	231 hp	2002
<b>Flare Pilots and Flares</b>				
37	TY-V-0006	HP/LP Flare Pilots	0.125 MMBtu/hr (HHV)	1968

EU ID <sup>1</sup>	Emissions Unit Name	Emissions Unit Description	Rating/Size	Installation Date
38	TY-V-0005	HP Safety Flare	583.3 MMBtu/hr (HHV)	1968
39	TY-V-0007	LP Safety Flare	53.3 MMBtu/hr (HHV)	1968
<b>Vents</b>				
40	TY-H-2611	Glycol Regenerator No. 1 Reboiler Vent	NA	1968
41	TY-H-2612	Glycol Regenerator No. 2 Reboiler Vent	NA	1968
42	TY-H-2613	Glycol Regenerator No. 3 Reboiler Vent	NA	1968

Notes:

- EU IDs 13 through 15 in Minor Permit No. AQ0091MSS03 are not included in the table because they are insignificant emissions units that no longer have emissions unit-specific requirements. The requirements were rescinded by Minor Permit No. AQ0091MSS01 Rev. 1.
- EU IDs 24 and 25 were replaced by EU IDs 24A and 25A, respectively in 2013. EU ID 25A was replaced by EU ID 25B in 2022.

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

The Spartan 151 Drill Rig and associated equipment may consist of the emissions units listed in Table B. The specific emissions unit descriptions do not restrict the Permittee from replacing an emissions unit identified in Table B.

**Table B - Spartan 151 Drill Rig and Associated Emissions Unit Inventory<sup>1,2</sup>**

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Capacity	Fuel	Commenced Construction Date <sup>3</sup>
S1	Rig Engine #1	Caterpillar D-399	1,100 hp	Diesel	1981
S2	Rig Engine #2	Caterpillar D-399	1,100 hp	Diesel	1981
S3	Rig Engine #3	Caterpillar D-398	970 hp	Diesel	1981
S4	Rig Engine #4	Caterpillar D-398	970 hp	Diesel	1981
S5	Rig Engine #5	Caterpillar D-398	970 hp	Diesel	1981
S6	Rig Engine #6	Caterpillar D-398	970 hp	Diesel	1981
S7	Rig Engine #7	Caterpillar D-398	970 hp	Diesel	1981
S8	Crane Engine	Caterpillar D-3306	300 hp	Diesel	1981
S9	Crane Engine	Detroit Diesel 671	285 hp	Diesel	1981
S10	Cement Pump 1	Detroit Diesel 8V71	490 hp	Diesel	1981
S11	Cement Pump 2	Detroit Diesel 8V71	490 hp	Diesel	1981
S12	Diesel Fuel Storage Tank #10	NA	32,943 gallons	NA	1981
	Diesel Fuel Storage Tank #11	NA	646 gallons	NA	1981
	Diesel Fuel Storage Tank #12	NA	28,663 gallons	NA	1981
	Diesel Fuel Storage Tank #13	NA	3,305 gallons	NA	1981
S13	Lifeboat 1 Engine	BUKH DV36 RME	36 hp	Diesel	1981

<b>EU ID</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Rating/ Capacity</b>	<b>Fuel</b>	<b>Commenced Construction Date<sup>3</sup></b>
S14	Lifeboat 1 Engine	BUKH DV36 RME	36 hp	Diesel	1981

Notes:

1. EU IDs S1 through S11, S13, and S14 are nonroad engines (NREs), as defined in 40 C.F.R. 1068.30, Subpart A.
2. Diesel fuel storage tanks #10 through #13, collectively identified as EU ID S12, are insignificant emissions units under 18 AAC 50.326(e) that are not subject to any emission standards, operational limitations, or monitoring, recordkeeping, or reporting requirements.
3. There are no installation dates because the Spartan 151 Drill Rig equipment rotates on and off the platform.

[18 AAC 50.326(a)]

[40 C.F.R. 71.5(c)(3)]

[Table 1, Minor Permit No. AQ0091MSS04, 12/23/2020]

### 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 through 4, 8 through 10, 12, 20, 21, 24A, 25B, 28, 33, 34, and 37 through 39 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

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

- 1.1. For EU IDs 1 through 4, 8 through 10, and 12, burn only gas as fuel. In each operating report under Condition 94, indicate whether each of these emissions units burned only gas during the period covered by the report. Report under Condition 92 if any fuel other than gas is burned in any of these emissions units.
- 1.2. For each of EU IDs 20, 21, 24A, 25B, 28, 33, and 34, as long as actual emissions from the emissions unit are less than the significant emissions thresholds listed in 18 AAC 50.326(e), as indicated in the number of hours shown in Table C during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 95 for the visible emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 94 if any of EU IDs 20, 21, 24A, 25B, 28, 33, or 34 reaches any of the significant emissions thresholds listed in 18 AAC 50.326(e) (or operates more than the number of hours shown in Table C) and monitor, record, and report in accordance with Conditions 2 through 4 for the remainder of the permit term for that emissions unit.

**Table C - Significant Emissions Unit Thresholds**

EU ID	Number of Hours per rolling 12-month period
20	222
21	222
24A	3,252
25B	1,026
28	1,613
33	648
34	648

- 1.3. For EU IDs 37 through 39 (flares<sup>1</sup>), monitor, record, and report in accordance with Condition 5.

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

<sup>1</sup> For Method 9 observations, the same exhaust is observed for EU IDs 37 through 39.

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

### *Liquid Fuel-Burning Equipment (EU IDs 20, 21, 24A, 25B, 28, 33, and 34)*

2. **Visible Emissions Monitoring.** When required by Condition 1.2, or in the event of replacement<sup>2</sup> during the permit term, the Permittee shall observe the exhaust of EU IDs 20, 21, 24A, 25B, 28, 33, and 34 for visible emissions using the Method 9 Plan under Condition 2.2.
  - 2.1. The Permittee may, for each unit, elect to continue the visible emissions monitoring schedule specified in Conditions 2.2.b through 2.2.e that remains in effect from a previous permit.
  - 2.2. **Method 9 Plan.** For all observations in this plan, observe 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 2.1, observe the exhausts of EU IDs 20, 21, 24A, 25B, 28, 33, and 34 according to the following criteria:
      - (i) Except as provided in Condition 2.2.a(ii), for any of EU IDs 20, 21, 24A, 25B, 28, 33, and 34, observe exhaust within six months after the effective date of this permit.
      - (ii) For any unit replaced, observe exhaust within 60 days of the newly installed emissions unit becoming fully operational.<sup>4</sup> Except as provided in Condition 2.2.e, after the First Method 9 observation:
        - (A) For EU IDs 20, 21, 24A, 25B, 28, 33, and 34, comply with Condition 1.2, as applicable.
      - (iii) For each of EU IDs 20, 21, 24A, 25B, 28, 33, and 34, observe the exhaust of the emissions unit within 30 days after the end of the calendar month during which monitoring was triggered under Condition 1.2; or for an emissions unit with intermittent operations, within the first 30 days during the unit's next scheduled operation.
    - b. Monthly Method 9 Observations. After the first Method 9 observation conducted under Condition 2.2.a, perform observations at least once in each calendar month that the emissions unit operates.
    - c. Semiannual Method 9 Observations. After at least three monthly observations under Condition 2.2.b, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform semiannual observations

<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 2.2.c, unless a six-consecutive-minute average opacity is greater than 15 percent and one or more individual observations are greater than 20 percent, perform annual observations
- (i) no later than 12 months, but not earlier than 10 months, after the preceding observation; or
  - (ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following 14 months after the preceding observation.
- e. Increased Method 9 Frequency. If a six-consecutive-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more individual observations are greater than 20 percent, then increase or maintain the observation frequency for that emissions unit to at least monthly intervals as described in Condition 2.2.b, and continue monitoring in accordance with the Method 9 Plan.

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

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

3.1. For all Method 9 observations,

- a. the observer shall record the following:
  - (i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 12;
  - (ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating rate (load or fuel consumption rate or best estimate, if unknown) on the sheet at the time opacity observations are initiated and completed;
  - (iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;
  - (iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emission Observation Form in Section 12; and

- (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.
  - b. To determine the six-minute average opacity,
    - (i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;
    - (ii) sets need not be consecutive in time and in no case shall two sets overlap;
    - (iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; and
    - (iv) record the average opacity on the sheet.
  - c. Calculate and record the highest six-consecutive- and 18-consecutive-minute average opacities observed.
- 3.2. The records required by Condition 3.1 may be kept in electronic format.

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

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

- 4.1. In the first operating report required in Condition 94 under this permit term, the Permittee shall state the intention to either continue the visible emissions monitoring schedule in effect from the previous permit or reset the visible emissions monitoring schedule.
- 4.2. Include in each operating report required under Condition 94 for the period covered by the report:
  - a. for all Method 9 Plan observations:
    - (i) copies of the observation results (i.e., opacity observations) for each emissions unit, except for the observations the Permittee has already supplied to the Department; and
    - (ii) a summary to include:
      - (A) number of days observations were made;
      - (B) highest six-consecutive- and 18-consecutive-minute average opacities observed; and
      - (C) dates when one or more observed six-consecutive-minute average opacities were greater than 20 percent;
  - b. a summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done.

- 4.3. Report under Condition 92:
- a. the results of Method 9 observations that exceed 20 percent average opacity for any six-consecutive-minute period; and
  - b. if any monitoring under Condition 2 was not performed when required, report within three days of the date that the monitoring was required.

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

*Flares (EU IDs 37 through 39)*

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

- 5.1. Observe flare events<sup>5</sup> on EU IDs 37 through 39 (flares), 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. Conduct visible emissions observations within 14 months of, but not earlier than three months after, the preceding flare event visible emissions observation.
  - b. If there are no flare events that meet the requirements of Condition 5.1.a, the Permittee shall observe the next daylight flare event.
- 5.2. Record the following information for each observed flare event:
- a. the 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.
- 5.3. The records required by Condition 5.2 may be kept in electronic format.
- 5.4. Monitoring of a flare event may be postponed for safety or weather reasons, or because a qualified observer is not available.
- 5.5. Include the following in the operating report required by Condition 94 for the period covered by the report:
- a. copies of the records required by Condition 5.2; and

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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.

- b. if an annual flare event observation required by Condition 5.1.a 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.
- 5.6. Report under Condition 92 whenever:
- a. the visible emissions standard in Condition 1 is exceeded; or
  - b. the monitoring required under Condition 5.1 is not completed, except as allowed under Condition 5.4.
- 5.7. If no flare events are monitored during a certification period, the Permittee shall certify compliance under Condition 95 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

- 6. Industrial Process and Fuel-Burning Equipment PM Emissions.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 1 through 4, 8 through 10, 12, 20, 21, 24A, 25B, 28, 33, 34, and 37 through 39 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

- 6.1. For EU IDs 1 through 4, 8 through 10, and 12, the Permittee shall comply with Condition 1.1.
- 6.2. For each of EU IDs 20, 21, 24A, 25B, 28, 33, and 34, as long as actual emissions from the emissions unit are less than the significant emissions thresholds listed in 18 AAC 50.326(e), as indicated in the number of hours shown in Table C during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 95 for the PM emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 94 if any of EU IDs 20, 21, 24A, 25B, 28, 33, and 34 reaches any of the significant emissions thresholds (or operates more than the number of hours shown in Table C) and monitor, record, and report in accordance with Conditions 7 through 9 for the remainder of the permit term for that emissions unit.
- 6.3. For EU IDs 37 – 39 (flares), the Permittee shall comply with Condition 5.

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

### PM MR&R

#### *Liquid Fuel-Burning Equipment (EU IDs 20, 21, 24A, 25B, 28, 33, and 34)*

- 7. PM Monitoring.** When required by Condition 6.2, the Permittee shall conduct source tests on EU IDs 20, 21, 24A, 25B, 28, 33, and 34 to determine the concentration of PM in the exhaust of each emissions unit as follows:

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

- 7.1. If the result of any Method 9 observation conducted under Condition 2.2 for any of EU IDs 20, 21, 24A, 25B, 28, 33, and 34 is greater than the criteria of Condition 7.2.a or Condition 7.2.b, the Permittee shall, within six months of that Method 9 observation, either:
  - a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 C.F.R. 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than the criteria of Condition 7.2; or
  - b. except as exempted in Condition 7.4, conduct a PM source test according to requirements set out in Section 7.
- 7.2. Take corrective action or conduct a PM source test, in accordance with Condition 7.1, if any Method 9 observation under Condition 2.2 results in an 18-minute average opacity greater than
  - a. 20 percent for an emissions unit with an exhaust stack diameter that is equal to or greater than 18 inches; or
  - b. 15 percent for an emissions unit with an exhaust stack diameter that is less than 18 inches, unless the Department has waived this requirement in writing.
- 7.3. During each one-hour PM source test run under Condition 7.1.b, observe the emissions unit exhaust for 60 minutes in accordance with Method 9 and calculate the highest 18-consecutive-minute average opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.
- 7.4. The PM source test requirements in Condition 7.1.b are waived for an emissions unit if
  - a. a PM source test on that unit has shown compliance with the PM standard during this permit term; or
  - b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations (as described in Condition 2.2) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 7.2.
8. **PM Recordkeeping.** The Permittee shall keep records of the results of any source test and visible emissions observations conducted under Condition 7.

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

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

- 9.1. Notify the Department of any Method 9 observation results that are greater than the threshold of either Condition 7.2.a or Condition 7.2.b within 30 days of the end of the month in which the observations occurred. Include the dates, EU ID(s), and results when an observed 18-minute average opacity was greater than an applicable threshold in Condition 7.2.
- 9.2. In each operating report under Condition 94, include:
  - a. a summary of the results of any PM source test and visible emissions observations conducted under Condition 7; and
  - b. copies of any visible emissions observation results greater than the thresholds of Condition 7.2, if they were not already submitted.
- 9.3. Report in accordance with Condition 92:
  - a. anytime the results of a PM source test exceed the PM emissions standard in Condition 6; or
  - b. if the requirements under Condition 7.1 were triggered and the Permittee did not comply on time with either Condition 7.1.a or 7.1.b. Report the deviation within 24 hours of the date compliance with Condition 7.1 was required.

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

### **Sulfur Compound Emissions Standard**

- 10. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from EU IDs 1 through 4, 8 through 10, 12, 20, 21, 24A, 25B, 28, 33, 34, and 37 through 39 to exceed 500 ppm averaged over three hours.

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

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

*Fuel Gas*<sup>6</sup> (EU IDs 1 through 4, 8 through 10, and 12)

- 11.** For EU IDs 1 through 4, 8 through 10, and 12, to ensure compliance with Condition 10, the Permittee shall comply with the fuel hydrogen sulfide (H<sub>2</sub>S) content limit of 200 ppmv in Condition 18.1<sup>7</sup> and associated MR&R requirements in Conditions 18.1.a through 18.1.c.
- 11.1. Report as excess emissions, in accordance with Condition 92, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 10.

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

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<sup>6</sup> *Fuel gas* has the definition of “natural gas” taken from 40 C.F.R. 60.41b.

<sup>7</sup> Compliance with the fuel gas H<sub>2</sub>S content limit of Condition 18.1 will ensure compliance with the 500-ppm SO<sub>2</sub> emission limit of Condition 10. Fuel gas containing no more than 4000 ppm H<sub>2</sub>S will comply with this emission standard at stoichiometric or excess air combustion conditions. See the Factual Basis for Condition 10 in the Statement of Basis that accompanies this permit.

*Fuel Oil*<sup>8</sup> (EU IDs 20, 21, 24A, 25B, 28, 33, and 34)

**12.** For EU IDs 20, 21, 24A, 25B, 28, 33, and 34, to ensure compliance with Condition 10, the Permittee shall comply with the fuel sulfur content limit of 0.25 percent sulfur by weight (wt% $S_{\text{fuel}}$ ) in Condition 18.2<sup>9</sup> and associated MR&R requirements in Conditions 18.2.a through 18.2.d.

12.1. 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 13 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a)(3).

12.2. If SO<sub>2</sub> emissions calculated under Condition 12.1 exceed 500 ppm, the Permittee shall report in accordance with Condition 92. When reporting under this condition, include the calculation under Condition 12.1.

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

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<sup>8</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.

<sup>9</sup> Compliance with the liquid fuel sulfur content limit of Condition 18.2 will ensure compliance with the 500-ppm SO<sub>2</sub> emission limit of Condition 10. However, an exceedance of the liquid fuel sulfur content limit in Condition 18.2 will not potentially result in an exceedance of the sulfur content emissions standard in Condition 10 unless the fuel sulfur content exceeds 0.75 wt.%.

## Section 4. Preconstruction Permit<sup>10</sup> Requirements

### Ambient Air Quality Protection Limits

- 13. NREs Cumulative Rated Capacity Limit.** The Permittee shall not place a total cumulative capacity rating of more than 12,000 hp of all *nonroad engines*<sup>11</sup> (NREs) upon the Tyonek Platform except as indicated in Condition 14.<sup>12</sup>
- 13.1. Maintain a NRE log onsite and have it available for inspection upon request. For each NRE on-platform, record the make, model, and rated capacity (hp).
- 13.2. Calculate and record the total combined rated capacity of NREs located on the Tyonek Platform each time a NRE is added to or removed from the platform. If no NRE is added nor removed during a given month, record for that month the last total combined rated capacity of the NREs carried forward from the previous calendar month.
- 13.3. Include for each month covered by the report, the highest total combined capacity of all installed NREs on-platform from the total(s) recorded in Condition 13.2, in the operating report required by Condition 94.
- 13.4. Report under Condition 92 whenever the NREs' combined capacity rating limit of Condition 13 is exceeded as determined by a calculation performed under Condition 13.2.

[Condition 7, Minor Permit No. AQ0091MSS03 Rev. 1, 11/1/16]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

- 14.** The Permittee may increase the nonroad engine cumulative hp limit in Condition 13 upon written Department approval. To obtain approval, the Permittee shall submit a proposed threshold; and an ambient demonstration that demonstrates that the stationary source will still comply with the ambient air quality standards and increments for the following pollutants of concern: nitrogen dioxides, sulfur dioxide, and particulate matter at the proposed threshold. Submit the proposed threshold and the required ambient modeling demonstration to the Division of Air Quality's Air Online Services (AOS) system webpage <http://dec.alaska.gov/applications/air/airtoolsweb> using the Permittee Portal option.

[Condition 8, Minor Permit No. AQ0091MSS03 Rev. 1, 11/1/16]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

- 15. Liquid Fuel Sulfur Content Limit, Drill Rig Emissions Units (EU IDs S1 through S11, S13, S14).** To protect the 1-hour, 3-hour, 24-hour, and annual SO<sub>2</sub> AAAQS, the Permittee shall limit the sulfur content of the liquid fuel burned by the Spartan 151 Drill Rig emissions units, listed in Table B, to no more than 15 ppmw.

<sup>10</sup> *Preconstruction Permit* refers to federal PSD permits, state-issued permits-to-operate issued on or before January 17, 1997 (these permits cover both construction and operations), construction permits issued on or after January 18, 1997, and minor permits issued on or after October 1, 2004.

<sup>11</sup> As defined in 40 C.F.R. 1068.30.

<sup>12</sup> This limit pertains to the total cumulative rating of NREs on-platform. See footnote 13.

- 15.1. The Permittee shall do one of the following for each shipment of fuel for the Spartan 151 Drill Rig:
  - a. If the fuel grade requires a sulfur content of 15 ppmw or less, keep receipts that specify the fuel grade and amount of fuel; or
  - b. If the fuel grade does not require a sulfur content of 15 ppmw or less, keep receipts that specify the fuel grade and amount of fuel; and either
    - (i) test the fuel for sulfur content; or
    - (ii) 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.
- 15.2. Fuel testing under Condition 15.1.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).
- 15.3. Include in each operating report required by Condition 94, for the period covered by the report:
  - a. a list of the fuel grades received for combustion by the Spartan 151 Drill Rig emissions units; and
  - b. copies of any test results obtained in accordance with Condition 15.1.b.
- 15.4. Report as described in Condition 92 any time the sulfur content of any liquid fuel delivered for combustion by the Spartan 151 Drill Rig emissions units exceeds the limit in Condition 15.

[Condition 4, Minor Permit No. AQ0091MSS04, 12/23/2020]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

**16. Drill Rig NREs Cumulative Rated Capacity Limit.** To protect the annual NO<sub>2</sub>, 24-hour PM<sub>10</sub>, annual PM<sub>2.5</sub>, and 1-hour, 3-hour, 24-hour, and annual SO<sub>2</sub> AAAQS, the Permittee shall:

- 16.1. Limit the cumulative rated capacity of the drill rig nonroad engines at Tyonek Platform to no more than 8,615 bhp.<sup>13</sup>
  - a. Any time a change is made to the drill rig nonroad engine emissions unit inventory, calculate and record the cumulative drill rig nonroad engine rated capacity.
  - b. Include the cumulative drill rig nonroad engine rated capacity in each operating report required under Condition 94 for each month of the reporting period.

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<sup>13</sup> This limit is a subset of the on-platform total NREs cumulative rating limit in Condition 13.

- c. Report in accordance with Condition 92 any time the cumulative drill rig nonroad engine rated capacity exceeds the limit in Condition 16.1.

[Condition 5, Minor Permit No. AQ0091MSS04, 12/23/2020]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

### Owner Requested Limits (ORLs) to Avoid Classification as PSD Major

- 17. **NO<sub>x</sub> Limit.** The Permittee shall limit the combined oxides of nitrogen (NO<sub>x</sub>) emissions, expressed as nitrogen dioxide (NO<sub>2</sub>), from EU IDs 20, 21, 24A, 25B, 28, 33, and 34 to no greater than 20.2 tons per 12-month period as follows:

- 17.1. Limit fuel consumption for these emissions units such that the following equation holds true:

Equation

$$\frac{\left(0.45 \frac{\text{lb}}{\text{gal}} \times FC_{20,21}\right) + \left(0.07 \frac{\text{lb}}{\text{gal}} \times FC_{24A}\right) + \left(0.15 \frac{\text{lb}}{\text{gal}} \times FC_{25B}\right) + \left(0.58 \frac{\text{lb}}{\text{gal}} \times FC_{28}\right) + \left(0.51 \frac{\text{lb}}{\text{gal}} \times FC_{33,34}\right)}{2000 \frac{\text{lb}}{\text{ton}}} \leq 20.2 \text{ tpy NO}_x$$

Where:

FC<sub>20,21</sub> is the total fuel consumption per rolling 12-month period for EU IDs 20 and 21

FC<sub>24A</sub> is the total fuel consumption per rolling 12-month period for EU ID 24A

FC<sub>25B</sub> is the total fuel consumption per rolling 12-month period for EU ID 25B

FC<sub>28</sub> is the total fuel consumption per rolling 12-month period for EU ID 28

FC<sub>33,34</sub> is the total fuel consumption per rolling 12-month period for EU IDs 33 and 34

- 17.2. Monitor, record, and report for compliance with the limit in Condition 17, as follows:
  - a. Except as allowed under Condition 17.3, measure the monthly and rolling 12-month total diesel fuel consumed by each of EU IDs 20, 21, 24A, 25B, 28, 33, and 34 using a fuel flow meter with a minimum accuracy of ± 5%.
  - b. Each month, calculate and record the total volume of diesel fuel consumed by each EU during the previous calendar month;
  - c. Calculate and record monthly, the rolling 12-month combined NO<sub>x</sub> emissions from EU IDs 20, 21, 24A, 25B, 28, 33, and 34 using the equation in Condition 17.1.
  - d. Include the records required in Conditions 17.2.b and 17.2.c in the operating report required by Condition 94 for the period covered by the report.
- 17.3. If any of the fuel flow meters for EU IDs 20, 21, 24A, 25B, 28, 33, and 34 did not function for any period of time when the fuel is being combusted by the EU(s) during the reporting period, the Permittee may use the operational hours of the EU(s), in lieu of fuel consumption, to calculate NO<sub>x</sub> emissions using the corresponding maximum NO<sub>x</sub> emission rates in lb/hr listed in Table D as follows:

- a. Monitor and maintain records of the monthly and rolling 12-month hours of operation for each of EU IDs 20, 21, 24A, 25B, 28, 33, and 34. Each month, calculate and record
  - (i) the total hours of operation of each EU during the previous calendar month; and
  - (ii) the consecutive 12-month hours of operation during the previous 12 calendar months using the records for each EU obtained in accordance with Condition 17.3.a(i).
- b. Using the consecutive 12-month hours of operation obtained in accordance with Condition 17.3.a(ii), calculate and record the combined NO<sub>x</sub> emissions from EU IDs 20, 21, 24A, 25B, 28, 33, and 34 using the corresponding maximum NO<sub>x</sub> emission rates in lb/hr listed in Table D.

**Table D – Maximum NO<sub>x</sub> Emission Rates**

EU ID	20	21	24A	25B	28	33	34
NO <sub>x</sub> Emissions (lb/hr)	18.0	18.0	1.23	3.9	2.5	6.2	6.2

- c. Include the records required in Conditions 17.3.a and 17.3.b in the operating report required by Condition 94 for the period covered by the report.
- 17.4. Report in accordance with Condition 92 any time the NO<sub>x</sub> limit in Condition 17 is exceeded.

[Condition 8, Minor Permit No. AQ0091MSS03 Rev. 2, [Date TBD, MM/DD/YY]]  
 [18 AAC 50.040(j)(4) & 50.326(j)(4)]  
 [40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

**18. Fuel Sulfur Content Limits.** The Permittee shall limit the sulfur contents of fuels combusted at the stationary source as follows:

*Fuel Gas (EU IDs 1 through 4, 8 through 10, and 12)*

- 18.1. Limit the hydrogen sulfide (H<sub>2</sub>S) content of the gaseous fuel burned by EU IDs 1 through 4, 8 through 10, and 12 to 200 ppmv H<sub>2</sub>S. Monitor, record, and report as follows:
  - a. Measure the H<sub>2</sub>S content of the process or natural gas burned as fuel using ASTM D4810, ASTM D4913, or Gas Producers Association (GPA) Method 2377 once every six months.
  - b. Maintain records of each H<sub>2</sub>S content analysis of gaseous fuel obtained under Condition 18.1.a.
  - c. Include in each operating report required by Condition 94, the results of each H<sub>2</sub>S content analysis of gaseous fuel obtained under Condition 18.1.a for the period covered by the report.

- d. Report as described in Condition 92, any time the fuel H<sub>2</sub>S concentration or sulfur content exceeds the limit of Condition 18.1.

[Conditions 10.1, 10.2, 10.5 & 10.6 Minor Permit No. AQ0091MSS03 Rev. 1, 11/1/16]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

*Fuel Oil (EU IDs 20, 21, 24A, 25B, 28, 33, and 34)*

- 18.2. Limit the sulfur content of liquid fuels burned by EU IDs 20, 21, 24A, 25B, 28, 33, and 34 to 0.25 wt%S<sub>fuel</sub>. Monitor, record, and report as follows:

- a. Comply with either Condition 18.2.a(i) or 18.2.a(ii):

- (i) For each shipment of distillate fuel:

(A) If the fuel grade requires a sulfur content of 0.25 wt%S<sub>fuel</sub> or less, keep receipts that specify the fuel grade and amount received; or

(B) If the fuel grade does not require a sulfur content of 0.25 wt%S<sub>fuel</sub> or less, keep receipts that specify the fuel grade and amount received; and either

(1) test the fuel for sulfur content; or

(2) 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

- (ii) Test the sulfur content of the fuel in each storage tank that supplies fuel to EU IDs 20, 21, 24A, 25B, 28, 33, and 34 at least monthly.

- b. Fuel testing under Condition 18.2.a(i) or Condition 18.2.a(ii) 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).
- c. Maintain records of the sulfur content of each distillate fuel delivery obtained under Condition 18.2.a(i) and/or the results of all fuel sulfur analyses conducted under Conditions 18.2.a(i)(B)(1), 18.2.a(i)(B)(2), or 18.2.a(ii) and documentation of the method(s) used to complete the analyses.
- d. Include in each operating report required by Condition 94, the records required to be maintained in Condition 18.2.c, for the period covered by the report.
- e. Report as described in Condition 92, any time the sulfur content exceeds the limit of Condition 18.2.

[Conditions 10.1, 10.3, 10.4, 10.5, & 10.6, Minor Permit No. AQ0091MSS03 Rev. 1, 11/1/16]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

**19. Natural Gas Fuel Consumption Limits.** The Permittee shall comply with the following:

19.1. Limit the natural gas consumption for:

- a. Solar Centaur T-4700 Turbines (EU IDs 1 and 2) to a combined use not to exceed 805 million standard cubic feet (MMscf) per rolling 12-month period;
- b. Glycol Heaters (EU IDs 10 and 12) to a combined use not to exceed 195 MMscf per rolling 12-month period; and
- c. Gas Production Flares (EU IDs 38 and 39) to a combined throughput not to exceed 252 MMscf per rolling 12-month period.

19.2. Monitor, record, and report as follows:

- a. Monitor the natural gas consumption for EU IDs 1, 2, 10, 12, 38, and 39 using a fuel flow meter with a minimum accuracy of  $\pm 5\%$ , or an alternative method listed 18 AAC 50.035(b)-(c) and 40 C.F.R. 60.17 incorporated by reference in 18 AAC 50.040(a)(1).
- b. Maintain records of the monthly and the rolling 12-month combined natural gas consumption for each of the following groups of EUs:
  - (i) EU IDs 1 and 2;
  - (ii) EU IDs 10 and 12; and
  - (iii) EU IDs 38 and 39.
- c. Include in each operating report required by Condition 94, the records required in Condition 19.2.b, for the period covered by the report.
- d. Report as described in Condition 92 if any of the natural gas consumption limits in Condition 19.1 are exceeded.

[Condition 11, Minor Permit No. AQ0091MSS03 Rev. 1, 11/1/16]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

*Best Available Control Technology (BACT) Limits for NO<sub>x</sub>*

**20. BACT Emission Limits for EU IDs 3 and 4.** The Permittee shall operate the Solar Taurus 60 T-7300S Turbines, EU IDs 3 and 4, only in the dry low NO<sub>x</sub> mode, except during low-load transient operations of startup and shutdown.

- 20.1. When the turbine is operating in the dry low NO<sub>x</sub> mode as set out in Condition 20, limit NO<sub>x</sub> emissions of each unit to no greater than 25 parts per million by volume, dry (ppmvd) at 15 percent O<sub>2</sub> and 6.2 lb/hr, expressed as NO<sub>2</sub>, averaged over any three consecutive hours.
  - a. Conduct source tests on EU IDs 3 and 4, as set out by Condition 34.1, to demonstrate compliance with the NO<sub>x</sub> BACT limit of Condition 20.1. Keep records and report as indicated in Conditions 34.2 and 34.3, respectively.

- 20.2. Monitor for non-dry low NO<sub>x</sub> mode operation, which is indicated by the presence of a P1 pilot flame. Record the date, time, and duration for which the P1 pilot flame is present for EU IDs 3 and 4.
- 20.3. Monitor and record the date, time, and duration when either EU ID 3 or 4 is in transient operations of startup and shutdown mode.
- 20.4. Include in each operating report required by Condition 94 for the period covered by the report:
  - a. the date, time, duration, and emissions unit number if either EU ID 3 or 4 is operating, but not in the low NO<sub>x</sub> mode. Specify whether each non-dry low NO<sub>x</sub> mode operation was during startup, shutdown, or another activity; and
  - b. a summary of events resulting in the operation of EU ID 3 or 4 out of low NO<sub>x</sub> mode.<sup>14</sup>
- 20.5. Report in accordance with Condition 92:
  - a. all activities other than startup and shutdown that result in operation out of low NO<sub>x</sub> mode for more than 6 minutes in any 3-hour period; and
  - b. if source test results of Condition 20.1.a show an exceedance of the limit in Condition 20.1.

[Condition 12, Minor Permit No. AQ0091MSS03 Rev. 1, 11/1/16]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

### *Specific Operating and Maintenance Requirements*

21. The Permittee shall operate and maintain the two Waukesha natural gas-fired generators (EU IDs 8 and 9) with air-fuel controllers and catalytic converters.
  - 21.1. State in each operating report under Condition 94 whether each of these emissions units is operated with air-fuel controllers and catalytic converters.
  - 21.2. Report under Condition 92 if either of the units is operated without air-fuel controllers and catalytic converters.

[Condition 6, Permit to Operate No. 9623-AA007, 4/14/97]  
[18 AAC 50.040(j)(4) & 50.326(j)(4)]  
[40 C.F.R. 71.6(a)(1), (a)(3), & (c)(6)]

### **Insignificant Emissions Units (IEUs)**

22. 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:

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<sup>14</sup> Corrected this Title I provision by replacing “events resulting **from** the operation of EUs 3 or 4 out of low NO<sub>x</sub> mode” with “events resulting **in** the operation of EUs 3 or 4 out of low NO<sub>x</sub> mode.” The information of interest is what events caused the units to operate out of low NO<sub>x</sub> mode, not the events caused by operation of these units out of low NO<sub>x</sub> mode.

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

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

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

[18 AAC 50.055(b)(1)]

22.3. **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)]

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

- a. Submit the compliance certifications of Condition 95 based on reasonable inquiry;
- b. Comply with the requirements of Condition 75;
- c. Report in the operating report required by Condition 94 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 22.1, 22.2, and 22.3.

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

## Section 5. Federal Requirements

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

#### NSPS Subpart A – General Provisions

**23. NSPS Subpart A Notification.** Unless exempted by a specific subpart of 40 C.F.R. 60, for any affected facility<sup>15</sup> or existing facility<sup>16</sup> regulated under NSPS requirements in 40 C.F.R. 60, the Permittee shall furnish the Administrator<sup>17</sup> written notification or, if acceptable to both the Administrator and the Permittee, electronic notification, as follows:

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

23.1. 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]

23.2. 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]

23.3. 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>18</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]

23.4. 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 construction of the replacement is commenced, and including the following information:

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<sup>15</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>16</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>17</sup> For Section 5 of this permit, the Department defines the “the Administrator” to mean “the EPA and the Department”.

<sup>18</sup> The Department and EPA may request additional relevant information subsequent to this notice.

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

- a. the name and address of the Permittee,
- 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.

**24. NSPS Subpart A Startup, Shutdown, & Malfunction Requirements.** The Permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of EU IDs 1 through 4, any malfunction of the air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for EU IDs 1 through 4 is inoperative.

[18 AAC 50.040(a)(1)]  
[40 C.F.R. 60.7(b), Subpart A]

**25. NSPS Subpart A Excess Emissions and Monitoring Systems Performance Report.** The Permittee shall submit excess emissions and monitoring systems performance (EEMSP)<sup>19</sup> report and/or summary report form (see Condition 26) to the Administrator semiannually, except when the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each six-month period. Written reports of excess emissions shall include the following information:

[18 AAC 50.040(a)(1)]  
[40 C.F.R. 60.7(c), Subpart A; 40 C.F.R. 60.334(j), Subpart GG]

25.1. The date and time of commencement and completion of each time period of excess emissions, and the process operating time during the reporting period.

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

25.2. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of EU IDs 1 through 4, the nature and cause of any malfunction (if known), and the corrective action taken or preventative measures adopted.

[40 C.F.R. 60.7(c)(2), Subpart A]

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<sup>19</sup> The Federal EEMSP report is not the same as the state excess emission report required by Condition 92. Excess emissions are defined in applicable subparts.

25.3. When no excess emissions have occurred such information shall be stated in the report.

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

**26. NSPS Subpart A Summary Report Form.** The Permittee shall submit to the Administrator one "summary report form" in the format shown in Figure 1 of 40 C.F.R. 60.7 (see Attachment A to the Statement of Basis) for each pollutant monitored for EU IDs 1 through 4. The report shall be submitted semiannually, postmarked by the 30<sup>th</sup> day following the end of each six-month period, except when more frequent reporting is specifically required by an applicable subpart or the EPA, as follows:

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

26.1. If the total duration of excess emissions for the reporting period is less than one percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent of the total operating time for the reporting period, only the summary report form shall be submitted and the EEMSP report described in Condition 25 need not be submitted unless it is requested by the Administrator, or

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

26.2. If the total duration of excess emissions for the reporting period is one percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is five percent or greater of the total time for the reporting period, then submit a summary report form and the EEMSP report described in Condition 25.

[40 C.F.R. 60.7(d)(2), Subpart A]

**27. NSPS Subpart A Recordkeeping.** The Permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by 40 C.F.R. Part 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least five years, in accordance with Condition 88, following the date of such measurements, maintenance, reports, and records.

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

**28. NSPS Subpart A Performance (Source) Tests<sup>20</sup>.** The Permittee shall conduct source tests according to Section 7 of this permit and as required in this condition on any affected facility.

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

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<sup>20</sup> Initial performance tests for Subpart GG turbines, EU IDs 1 through 4, have already been satisfied. The requirements apply as indicated unless otherwise specified by an applicable subpart.

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

[40 C.F.R. 60.8(a), Subpart A]

- 28.2. Conduct source tests and reduce data as set out in 40 C.F.R. 60.8(b) and provide the Department copies of any EPA waivers or approvals of alternative methods.

[40 C.F.R. 60.8(b), Subpart A]

- 28.3. Conduct source tests under conditions specified by EPA to be based on representative performance of EU IDs 1 through 4. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions of the purpose of a performance test nor shall emissions in the excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

[40 C.F.R. 60.8(c), Subpart A]

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

[40 C.F.R. 60.8(d), Subpart A]

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

- a. *Sampling ports adequate for EU IDs 1 through 4.* This includes (i) constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and (ii) providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
- b. Safe sampling platform(s),
- c. Safe access to sampling platform(s), and
- d. Utilities for sampling and testing equipment.

[40 C.F.R. 60.8(e), Subpart A]

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

[40 C.F.R. 60.8(f), Subpart A]

- 29. NSPS Subpart A Good Air Pollution Control Practice (GAPCP).** At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU IDs 1 through 4 including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of EU IDs 1 through 4.

[18 AAC 50.040(a)(1)]  
[40 C.F.R. 60.11(d), Subpart A]

- 30. NSPS Subpart A Credible Evidence.** For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of the standards set forth in Conditions 33 and/or 35, nothing in 40 C.F.R. Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU IDs 1 through 4 would have been in compliance with applicable requirements of 40 C.F.R. Part 60 if the appropriate performance or compliance test or procedure had been performed.

[18 AAC 50.040(a)(1)]  
[40 C.F.R. 60.11(g), Subpart A]

- 31. NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Conditions 33, 35, or 40. 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 GG<sup>21</sup> – Stationary Gas Turbines, EU IDs 1 through 4

- 32. NSPS Subpart GG Applicability.** For EU IDs 1 through 4, the Permittee shall comply with the applicable requirements for stationary gas turbines, which commenced construction, modification, or reconstruction after October 3, 1977, with a heat input at peak load equal to or greater than 10.7 gigajoules (10 million Btu) per hour based on the lower heating value of the fuel fired.

[18 AAC 50.040(a)(2)(V) & (j)(4), & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.330(a) & (b), Subpart GG]

- 33. NSPS Subpart GG NO<sub>x</sub> Standard.** The Permittee shall not allow the exhaust gas concentration of NO<sub>x</sub>, on a dry exhaust basis at 15 percent oxygen (O<sub>2</sub>) and ISO standard day conditions,<sup>22</sup> to exceed:

33.1. 165 ppmv from each of EU IDs 1 and 2; and

33.2. 181 ppmv from each of EU IDs 3 and 4.

[18 AAC 50.040(a)(2)(V), (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.332(a)(2) & (d), Subpart GG]

- 34. NSPS Subpart GG NO<sub>x</sub> MR&R Requirements.** The Permittee shall monitor, record, and report compliance with the respective Subpart GG NO<sub>x</sub> standard under Condition 33, as follows:

34.1. **NO<sub>x</sub> Monitoring.** The Permittee shall comply with the following:

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

- a. **Periodic Testing.** For each turbine subject to Condition 33 that operates for 400 hours or more in any 12-month period during the life of this permit, the Permittee shall satisfy either Conditions 34.1.a(i) or 34.1.a(ii).

- (i) For existing turbines whose latest emissions source testing are certified as operating at less than or equal to 90 percent of the applicable NO<sub>x</sub> limits shown in Condition 33 (for EU IDs 1 and 2) and Condition 20.1 (for EU IDs 3 and 4)<sup>23</sup>, the Permittee shall conduct a NO<sub>x</sub> and O<sub>2</sub> test under 40 C.F.R. 60, Appendix A, Method 20, or Method 7E and either Method 3 or 3A, within the first applicable criteria below:

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<sup>21</sup> The provisions of NSPS Subpart GG listed in Conditions 32 through 36 are current as amended through Feb. 27, 2014. 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>22</sup> ISO (*International Organization for Standardization*) standard day conditions means 288 degrees Kelvin (59 degrees F), 60 percent relative humidity and 101.3 kilopascals (14.7 psi) pressure. [ref. 40 C.F.R. 60.331(g)]

<sup>23</sup> Reference to the Subpart GG limit for EU IDs 3 and 4 in Condition 33 is not included as basis for the source testing trigger because the EUs are also subject to a more stringent BACT limit in Condition 20.1. Therefore, compliance with Condition 20.1 ensures compliance with Condition 33. Compliance demonstration is streamlined by cross-referencing the MR&R requirements under NSPS Subpart GG; hence, only the more stringent limit is used as basis for determining threshold for source testing trigger.

- (A) Within 5 years of the latest performance test; or
  - (B) Within 1 year of the effective date of this permit of the last source test occurred greater than five years prior to the effective date of this permit and the 400-hour threshold was triggered within 6 months of the permit's effective date; or
  - (C) Within 1 year after exceeding 400 hours of operation in a 12-month period if the last source test occurred greater than 4 years prior to the exceedance.
- (ii) For existing turbines whose latest emissions source testing results was certified as operating at greater than 90 percent of the NO<sub>x</sub> limit shown in Condition 33 (for EU IDs 1 and 2) or Condition 20.1 (for EU IDs 3 and 4), the Permittee shall conduct a NO<sub>x</sub> and O<sub>2</sub> source test under 40 C.F.R. Appendix A, Method 20, or Method 7E and either Method 3 or 3A, annually until the results of two consecutive tests are certified as less than or equal to 90 percent of the NO<sub>x</sub> limit shown in Condition 33 (for EU IDs 1 and 2) and Condition 20.1 (for EU IDs 3 and 4).
- b. **Substituting Test Data.** The Permittee may use results of a source test completed under Condition 34.1.a performed on only one of a group of turbines to satisfy the requirements of the condition for the other turbines in the group if
- (i) the Permittee demonstrates that test results are less than or equal to 90 percent of the NO<sub>x</sub> emission limits shown in Condition 33 (for EU IDs 1 and 2) and Condition 20.1 (for EU IDs 3 and 4), and are projected under Condition 34.1.c to be less than or equal to 90 percent of the applicable limit at maximum load;
  - (ii) the Permittee identifies in a source test plan under Condition 84:
    - (A) the turbine to be tested;
    - (B) the other turbines in the group that are to be represented by the test; and
    - (C) why the turbine to be tested is representative, including that each turbine in the group:
      - (1) is located at a stationary source operated and maintained by the Permittee;
      - (2) is tested under close to identical ambient conditions;
      - (3) is the same make and model and has identical injectors and combustor; and
      - (4) uses the same fuel type from the same supply origin.

- c. **Load.** The Permittee shall comply with the following:
- (i) Conduct all tests under Condition 34.1 in accordance with 40 C.F.R. 60.335(b)(2), except as otherwise approved in writing by the Department or by EPA if the circumstances of the Department or EPA approval are still valid at the time. For the highest load condition, if it is not possible to operate the turbine during the test at maximum load, the Permittee will test the turbine when operating at the highest load achievable by the turbine under the ambient and stationary source operating conditions in effect at the time of the test.
  - (ii) State in the source test plan under Condition 84 whether the test is scheduled when maximum NO<sub>x</sub> emissions are expected.
  - (iii) If the highest operating rate tested is less than the maximum load of the tested turbine or another turbine represented by the test data:
    - (A) for each such turbine the Permittee shall provide to the Department as an attachment to the source test report under Condition 86:
      - (1) additional test information from the manufacturer or from previous testing of units in the group of turbines; if using previous testing of the group of turbines, the information must include all available test data for the turbines in the group, and
      - (2) a demonstration based on the additional test information that projects the test results from Condition 34.1 to predict the highest load at which emissions will comply with the limits in Condition 33 (for EU IDs 1 and 2) and Condition 20.1 (for EU IDs 3 and 4).
    - (B) the Permittee shall not operate any turbine represented by the test data at loads for which the Permittee's demonstration predicts that emissions will exceed the limits of Condition 33 (for EU IDs 1 and 2) and Condition 20.1 (for EU IDs 3 and 4);
    - (C) the Permittee shall comply with a written finding prepared by the Department that:
      - (1) the information is inadequate for the Department to reasonably conclude that compliance is assured at any load greater than the test load, and that the Permittee must not exceed the test load;
      - (2) the highest load at which the information is adequate for the Department to reasonably conclude that compliance is assured at less than maximum load, and the Permittee must not exceed the highest load at which compliance is predicted;  
or

- (3) the Permittee must retest during a period of greater expected demand on the turbine; and
- (D) the Permittee may revise a load limit by submitting results of a more recent approved source test done at a higher load, and, if necessary, the accompanying information and demonstration described in Condition 34.1.c(iii)(A); the new limit is subject to any new Department finding under Condition 34.1.c(iii)(C).
- (iv) In order to perform a source test required under Condition 34.1, the Permittee may operate a turbine at a higher load than that prescribed by Condition 34.1.c(iii).
- (v) For the purposes of Conditions 34.1 through 34.3, maximum load means the hourly average load that is the smallest of:
  - (A) 100 percent of manufacturer's design capacity of the gas turbine at ISO standard day conditions;
  - (B) the highest load allowed by an enforceable condition that applies to the turbine; or
  - (C) the highest load possible considering permanent physical restraints on the turbine or the equipment which it powers.

34.2. **NO<sub>x</sub> Recordkeeping.** The Permittee shall keep records as follows:

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

- a. The Permittee shall comply with the following for each turbine for which a demonstration under Condition 34.1.c(iii) does not show compliance with the NO<sub>x</sub> limit in Condition 33 at maximum load:
  - (i) The Permittee shall keep records of:
    - (A) load; or
    - (B) as approved by the Department, surrogate measurements for load and the method for calculating load from those measurements.
  - (ii) Records in Condition 34.2.a shall be hourly or otherwise as approved by the Department.

- (iii) Within one month after submitting a demonstration under Condition 34.1.c(iii)(A)(2) that predicts that the highest load at which emissions will comply is less than maximum load, or within one month of a Department finding under Condition 34.1.c(iii)(C), whichever is earlier, the Permittee shall propose to the Department how load or load surrogates will be measured, and shall propose and comply with a schedule for installing any necessary equipment and beginning monitoring. The Permittee shall comply with any subsequent Department direction on the load monitoring methods, equipment, or schedule.
- b. For any turbine subject to Condition 33, that will operate less than 400 hours in any 12 consecutive months, the Permittee shall keep monthly records of the hours of operation.

34.3. **NO<sub>x</sub> Reporting.** The Permittee shall report as follows:

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

- a. In each operating report under Condition 94 the Permittee shall list for each turbine tested or represented by testing at less than maximum load and for which the Permittee must limit load under Condition 34.1.c(iii):
  - (i) the load limit;
  - (ii) the turbine identification; and
  - (iii) the highest load recorded under Condition 34.2.a during the period covered by the operating report.
- b. In each operating report under Condition 94 for each turbine for which Condition 34.1 has not been satisfied because the turbine normally operates less than 400 hours in any 12 consecutive months, the Permittee shall identify:
  - (i) the turbine;
  - (ii) the highest number of operating hours for any 12 consecutive months ending during the period covered by the report; and
  - (iii) any turbine that operated for 400 or more hours.
- c. The Permittee shall report under Condition 92 if:
  - (i) a test result exceeds the emission standard;
  - (ii) source testing is required under Condition 34.1.a(i) or 34.1.a(ii) but not performed; or

- (iii) the turbine was operated at a load exceeding that allowed by Conditions 34.1.c(iii)(B) and 34.1.c(iii)(C); exceeding a load limit is deemed a single violation rather than a multiple violation of both monitoring and the underlying emission limit.

[18 AAC 50.220(a) – (c) & 50.040(a)(1)]  
[40 C.F.R. 60.8(b), Subpart A]

- 35. NSPS Subpart GG SO<sub>2</sub> Standard.** For EU IDs 1 through 4, the Permittee shall not burn any fuel which contains total sulfur in excess of 0.8 wt% S<sub>fuel</sub> (8000 ppmw).

[18 AAC 50.040(a)(2)(V), (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.333(b), Subpart GG]

- 36. NSPS Subpart GG SO<sub>2</sub> MR&R Requirements.** The Permittee shall monitor, record, and report compliance with the applicable Subpart GG SO<sub>2</sub> standard in Condition 35, as follows:

- 36.1. **SO<sub>2</sub> Monitoring.** The Permittee shall monitor compliance with the Subpart GG SO<sub>2</sub> standard in Condition 35, as follows:

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

- a. Monitor the total sulfur content of the fuel being fired in the turbine, except as provided in Condition 36.1.b. Determine the sulfur content of the fuel using total sulfur test methods described in Condition 36.2. Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4000 ppmw), the Permittee may use ASTM D4084-82, 94, D5504-01, D6228-98, or Gas Processors Association Standard 2377-86 (all of which are incorporated by reference-see 40 C.F.R. 60.17), which measure the major sulfur compounds.

[40 C.F.R. 60.334(h)(1), Subpart GG]

- b. The Permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 C.F.R. 60.331(u),<sup>24</sup> regardless of whether an existing custom schedule approved by the Administrator requires such monitoring. The Permittee shall use the following sources of information to make the required demonstration:<sup>25</sup>

[40 C.F.R. 60.334(h)(3), Subpart GG]

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<sup>24</sup> As defined in 40 C.F.R. 60.331(u), “*Natural gas* means a naturally occurring fluid mixture of hydrocarbons (e.g., methane, ethane, or propane) produced in geological formations beneath the Earth’s surface that maintains a gaseous state at standard atmospheric temperature and pressure under ordinary conditions. Natural gas contains 20.0 grains or less of total sulfur per 100 standard cubic feet. Equivalents of this in other units are as follows: 0.068 weight percent total sulfur, 680 parts per million by weight (ppmw) total sulfur, and 338 parts per million by volume (ppmv) at 20 degrees Celsius total sulfur.

Additionally, natural gas must either be composed of at least 70 percent methane by volume or have a gross calorific value between 950 and 1100 British thermal units (Btu) per standard cubic foot. Natural gas does not include the following gaseous fuels: landfill gas, digester gas, refinery gas, sour gas, blast furnace gas, coal-derived gas, producer gas, coke oven gas, or any gaseous fuel produced in a process which might result in highly variable sulfur content or heating value.

<sup>25</sup> Periodic fuel sulfur monitoring under Condition 36.1.a and reporting under Conditions 36.4.a do not apply to Subpart GG turbines that burn fuel meeting the definition of 40 C.F.R. 60.331(u) as set out by Condition 36.1.b.

- (i) The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or  
[40 C.F.R. 60.334(h)(3)(i), Subpart GG]
      - (ii) Representative fuel sampling data, which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in 40 C.F.R. 75, Appendix D, Section 2.3.1.4 or 2.3.2.4 is required.  
[40 C.F.R. 60.334(h)(3)(ii), Subpart GG]
    - c. For any turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and for which a custom fuel monitoring schedule has previously been approved, the Permittee may, without submitting a special petition to the Administrator, continue monitoring on this schedule.  
[40 C.F.R. 60.334(h)(4), Subpart GG]
    - d. The frequency of determining the sulfur content of the fuel is as follows:  
[40 C.F.R. 60.334(i), Subpart GG]
      - (i) *Gaseous fuel.* If the Permittee elects not to demonstrate sulfur content using the options provided in Condition 36.1.b, and for which the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel shall be determined and recorded under Condition 36.1.a once per unit operating day; or  
[40 C.F.R. 60.334(i)(2), Subpart GG]
      - (ii) *Custom schedules.* Notwithstanding the requirements of Condition 36.1.d(i), the Permittee or fuel vendors may develop custom schedules for determination of the total sulfur content of gaseous fuels, based on the design and operation of the affected facility and the characteristics of the fuel supply. Except as provided in 40 C.F.R. 60.334(i)(3)(i) and (i)(3)(ii), custom schedules shall be substantiated with data and shall be approved by the Administrator before they can be used to comply with the standard in Condition 35. The two custom sulfur monitoring schedules set forth in 40 C.F.R. 60.334(i)(3)(i)(A) through (D) and 60.334(i)(3)(ii) are acceptable without prior Administrative approval.  
[40 C.F.R. 60.334(i)(3), Subpart GG]
- 36.2. **Test Methods and Procedures.** If the Permittee is required under Condition 36.1.d to periodically determine the sulfur content of the fuel combusted in the turbine, analyze the samples for the total sulfur content of the fuel as follows:  
[18 AAC 50.040(a)(2)(V), (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(3)(i)]  
[40 C.F.R. 60.335(b)(10), Subpart GG]

- a. For gaseous fuels, use ASTM D1072-80, 90 (Reapproved 1994); D3246-81, 92, 96; D4468-85 (Reapproved 2000); or D6667-01 (all of which are incorporated by reference, see 40 C.F.R. 60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the prior approval of the Administrator.

[40 C.F.R. 60.335(b)(10)(ii), Subpart GG]

- b. The fuel analyses may be performed by the Permittee, a service contractor retained by the Permittee, the fuel vendor, or any other qualified agency.

[40 C.F.R. 60.335(b)(11), Subpart GG]

- 36.3. **SO<sub>2</sub> Recordkeeping.** Keep records of the analyses required by Conditions 36.1 and 36.2, in accordance with Condition 88.

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

- 36.4. **SO<sub>2</sub> Reporting.** Report as follows:

[18 AAC 50.040(a)(2)(V), (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(3)(iii) & (c)(6)]

- a. For each affected unit monitored periodically to determine the fuel sulfur content under Condition 36.1.a, 36.1.c, or 36.1.d, the Permittee shall submit reports of excess emissions and monitor downtime, in accordance with Condition 25, except where otherwise approved by a custom fuel monitoring schedule. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under Condition 25, periods of excess emissions and monitor downtime that shall be reported are defined as follows:

[40 C.F.R. 60.334(j), Subpart GG]

- (i) For samples of gaseous fuel obtained using daily sampling, flow proportional sampling, or sampling from the unit's storage tank, an excess emission occurs each unit operating hour included in the period beginning on the date and hour of any sample for which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 weight percent and ending on the date and hour that a subsequent sample is taken that demonstrates compliance with the sulfur limit.
- (ii) A period of monitor downtime begins when a required sample is not taken by its due date. A period of monitor downtime also begins on the date and hour of a required sample, if invalid results are obtained. The period of monitor downtime shall include only unit operating hours and ends on the date and hour of the next valid sample.

[40 C.F.R. 60.334(j)(2)(i) & (iii), Subpart GG]

- b. If electing to comply with Condition 36.1.b, the Permittee shall include with the operating report under Condition 94, a certified statement indicating that the fuel gas combusted at the stationary source meets the definition of natural gas in 40 C.F.R. 60.331(u), pursuant to 40 C.F.R. 60.334(h)(3).
- c. Report under Condition 92 if:
  - (i) a test result exceeds the emission standard;
  - (ii) monitoring is required under Condition 36.1, but not performed; or
  - (iii) any reporting required under Condition 36.4 is not completed.

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

### **NSPS Subpart III<sup>26</sup> – Compression Ignition Internal Combustion Engines (CI ICE), EU IDs 24A and 25B**

**37. NSPS Subpart III Applicability and General Compliance Requirements.** For EU IDs 24A and 25B<sup>27</sup>, the Permittee shall comply with the following applicable requirements for stationary CI ICE located in remote areas of Alaska whose construction<sup>28</sup> commenced after July 11, 2005, where the stationary CI ICE are manufactured after April 1, 2006.

37.1. For EU IDs 24A and 25B, the Permittee shall comply with the applicable provisions of 40 C.F.R. Subpart A as specified in Table 8 to Subpart III and applicable provisions of Subpart III as specified in Conditions 38 through 43.

[18 AAC 50.040(a)(2)(OO), 50.040(j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.4200(a)(2), 60.4218 & Table 8, Subpart III]

**38. NSPS Subpart III GAPCP.** Except as permitted under Condition 41.1, the Permittee shall operate and maintain EU IDs 24A and 25B and control devices according to the manufacturer's written instructions, may change only those emission-related settings that are permitted by the manufacturer, and shall meet the requirements of Condition 40 and the applicable requirements of 40 C.F.R. 1068. In addition, the Permittee shall operate and maintain EU IDs 24A and 25B that achieves the emission standard as required in Condition 40 over the entire life of the engine.

[40 C.F.R. 60.4206, 60.4209, & 60.4211(a), Subpart III]

**39. NSPS Subpart III Fuel Requirements.** For EU IDs 24A and 25B, the Permittee is exempt from the fuel requirements of 40 C.F.R. 60.4207, and may use fuels mixed with used lubricating oil, in volumes of up to 1.75 percent of the total fuel.

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<sup>26</sup> The provisions of NSPS Subpart III listed in Conditions 37 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>27</sup> EU IDs 24A and 25B are located on a Cook Inlet oil & gas platform that meet the definition of *remote areas of Alaska* in 40 C.F.R. 60.4219. EU IDs 24A and 25B are not accessible by the FAHS and are pre-2014 model year engines.

<sup>28</sup> For the purposes of NSPS Subpart III, the date that construction commences is the date that the engine is ordered by the owner or operator as defined in 40 C.F.R. 60.4200(a).

- 39.1. The sulfur content of the used lubricating oil must be less than 200 ppm.
- 39.2. The used lubricating oil must meet the on-specification level and properties for used oil in 40 C.F.R. 279.11.

[18 AAC 50.040(a)(2)(OO) & (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]  
[40 C.F.R. 60.4216(d) & (f), Subpart III]

**40. NSPS Subpart III Emission Standards.** The Permittee shall comply with the following emission standards:

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

- 40.1. Exhaust emissions from EU ID 24A (2007 model year and later non-emergency stationary CI ICE) shall not exceed applicable exhaust emission standards (Tier 4-interim emission factors) for new nonroad CI engines in 40 C.F.R. 1039.102, Table 6 of Subpart B for all pollutants, for the same displacement and maximum engine power, as follows:

- a. 4.0 g/kW-hr (or 3.0 g/hp-hr) for NHMC + NO<sub>x</sub>;
- b. 3.5 g/kW-hr (or 2.6 g/hp-hr) for CO; and
- c. 0.02 g/kW-hr (or 0.015 g/hp-hr) for PM.

[40 C.F.R. 60.4201(a), 60.4204(b) & 60.4211(c), Subpart III]  
[40 C.F.R. 1039.102, Table 6, Subpart B]

- 40.2. Exhaust emissions from EU ID 25B (2007 model year and later non-emergency stationary CI ICE) shall not exceed the following applicable exhaust emission standards (Tier 3 emission factors) for new nonroad CI engines in 40 C.F.R. 1039, Table 3 of Appendix I for all pollutants, for the same displacement and maximum engine power, as follows:

- a. 4.0 g/kW-hr (or 3.0 g/hp-hr) for NMHC + NO<sub>x</sub>;
- b. 3.5 g/kW-hr (or 2.6 g/hp-hr) for CO; and
- c. 0.20 g/kW-hr (or 0.15 g/hp-hr) for PM.

[40 C.F.R. 60.4201(a), 60.4204(b) & 60.4211(c), Subpart III]  
[Appendix I to 40 C.F.R. 1039, Table 3]

**41. NSPS Subpart III Monitoring and Recordkeeping.** The Permittee shall comply with the following:

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

- 41.1. If the Permittee does not install, configure, operate, and maintain EU IDs 24A and 25B and control devices according to the manufacturer's emission-related written instructions as required in Condition 38, or if emission-related settings are changed in a way that is not permitted by the manufacturer, the Permittee shall demonstrate compliance as follows:

- a. Keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- b. In addition, conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within one year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after changing emission-related settings in a way that is not permitted by the manufacturer.

[40 C.F.R. 60.4209 & 40 C.F.R. 60.4211(g)(2), Subpart III]

- (i) Conduct performance tests under Condition 41.1.b and meet the not-to-exceed (NTE) standards in accordance with the applicable requirements indicated in 40 C.F.R. 60.4212(a) – (c).

[40 C.F.R. 60.4204(d) & 60.4212(a) – (c), Subpart III]

- 41.2. For EU IDs 24A and 25B, demonstrate compliance with the emission standards by purchasing an engine certified to the applicable emissions standards in Conditions 40.1 and 40.2. The engines must be installed and configured according to the manufacturer's specifications, except as permitted in Condition 41.1.

[40 C.F.R. 60.4209 & 60.4211(c), Subpart III]

- 41.3. Keep records of the manufacturer's certification that EU IDs 24A and 25B meet the emission standards referenced in Conditions 40.1 and 40.2.

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

- 41.4. If EU ID 24A or 25B is equipped with a diesel particulate filter to comply with the applicable emission standards in Conditions 40.1 or 40.2, the diesel particulate filter must be installed with a backpressure monitor that notifies the Permittee when the high backpressure limit of the engine is approached. The Permittee must keep records of any corrective action taken after the backpressure monitor has notified the Permittee that the high backpressure limit of the engine is approached.

[40 C.F.R. 60.4209(b) & 60.4214(c), Subpart III]

- 41.5. If using fuels mixed with used lubricating oil as specified in Condition 39, comply with the following:

- a. Determine that the used oil to be burned for energy recovery meets the fuel specifications of 40 C.F.R. 279.11 and the sulfur content limit in Condition 39.1 by performing approved analyses or obtaining copies of analyses or other information documenting that the used oil fuel meets the specifications.
- b. Keep records of the following:
  - (i) copies of analyses of the used oil (or other information used to make the compliance determination in Condition 41.5.a) for three years;

- (ii) the amount of the used lubricating oil to be blended;
- (iii) the amount of other distillate fuel oil to be mixed with the used lubricating oil; and
- (iv) the ratio of the lubricating oil to the total fuel blend.

[40 C.F.R. 71.6(c)(6)]  
[40 C.F.R. 279.72(a) & (b)]

**42. NSPS Subpart III Reporting.** The Permittee shall report as follows:

- 42.1. If using fuels mixed with used lubricating oil, include with the operating report required under Condition 94
  - a. a copy of the records required in Condition 41.5.b for the period covered by the report; and
  - b. a summary of the results of performance tests conducted under Condition 41.1, as applicable.
- 42.2. Report in accordance with Condition 92 if any of the requirements under Conditions 37 through 43 are not met.

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

**43. NSPS Subpart III Deadline for Importing or Installing Stationary CI ICE in Previous Model Years.** The Permittee shall comply with the following:

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

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

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

[40 C.F.R. 60.4208(h), Subpart III]
- 43.3. The requirements of Condition 43 do not apply to stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

[40 C.F.R. 60.4208(i), Subpart III]

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

### NESHAP Subpart A – General Provisions

**44. 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

44.1. Table 2 of Appendix to NESHAP Subpart HH for EU IDs 40 through 42, listed in Table A; and

44.2. Table 8 to NESHAP Subpart ZZZZ for EU IDs 8, 9, 20, 21, 28, 33, and 34, listed in Table A.

[18 AAC 50.040(c)(1), (13) & (23), 18 AAC 50.040(j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 63.1 – 63.16, Subpart A]

[40 C.F.R. 63.764(a) & Appendix to Subpart HH, Table 2]

[40 C.F.R. 63.6665 & Table 8, Subpart ZZZZ]

### NESHAP Subpart HH<sup>29</sup> – Oil and Natural Gas Production Facilities, EU IDs 40 through 42

**45. NESHAP Subpart HH Applicability and General Requirements.** The Permittee shall comply with the applicable Subpart HH requirements for affected triethylene glycol (TEG) dehydration units (EU IDs 40 through 42) 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), Subpart HH]

**46. NESHAP Subpart HH GAPCP.** At all times, the Permittee must operate and maintain EU IDs 40 through 42, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices 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.

[18 AAC 50.040(c)(13) & (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1) & (a)(3)]

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

**47. NESHAP Subpart HH General Standards.** For the triethylene glycol (TEG) dehydration unit, EU IDs 40 through 42, the Permittee shall comply with the following:

[18 AAC 50.040(c)(13), (j)(4) & 50.326(j)]  
[40 C.F.R. 71.6(a)(1)]

[40 C.F.R. 63.764(e)(1), Subpart HH]

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<sup>29</sup> The provisions of NESHAP Subpart HH listed in Condition 44.1 and Conditions 45 through 49 are current as amended through January 19, 2021. 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.

47.1. **Exemption.** The Permittee is exempt from the requirements of 40 C.F.R. 63.764(d) if the actual average emissions of benzene for the glycol dehydration unit process vent to the atmosphere are less than 0.90 megagram per year, as determined by the procedures specified in Condition 48.1.

[40 C.F.R. 63.764(e)(1)(ii), Subpart HH]

48. **NESHAP Subpart HH Monitoring.** The Permittee shall use the following procedures to determine benzene emissions, or BTEX emissions.

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

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

[40 C.F.R. 63.772(b)(2), Subpart HH]

48.1. Determine actual average benzene or BTEX emissions from EU IDs 40 through 42 by using the procedures of either Conditions 48.1.a or 48.1.b, either uncontrolled, or with federally enforceable controls in place, as follows:

a. by using the model GRI-GLYCalc<sup>TM</sup>, Version 3.0 or higher, and the procedures presented in the associated GRI-GLYCalc<sup>TM</sup> Technical Reference Manual. Inputs to the model shall be representative of actual operating conditions of the glycol dehydration units and may be determined using the procedures documented in the Gas Research Institute (GRI) report entitled "Atmospheric Rich/Lean Method for Determining Glycol Dehydrator Emissions" (GRI-95/0368.1); or

[40 C.F.R. 63.772(b)(2)(i), Subpart HH]

b. through direct measurement using the methods in 40 C.F.R. 63.772(a)(1)(i) or (ii), or an alternative method according to 40 C.F.R. 63.7(f). Annual emissions in kilograms per year shall be determined by multiplying the mass rate by the number of hours the unit is operated per year. This result shall be converted to megagrams per year.

[40 C.F.R. 63.772(b)(2)(ii), Subpart HH]

49. **NESHAP Subpart HH Recordkeeping Requirements.** If EU IDs 40 through 42 meet the exception criteria in Condition 47.1, the Permittee shall maintain the records of the actual average benzene emissions (in terms of benzene emissions per year) as determined in accordance with Condition 48.1.

[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(d)(1)(ii), Subpart HH]

50. **NESHAP Subpart HH Reporting Requirements.** Report in accordance with Condition 92 if any of the requirements under Conditions 45 through 49 are not met.

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

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

**NESHAP Subpart ZZZZ<sup>30</sup> – Stationary RICE, EU IDs 8, 9, 20, 21, 28, 33, 34**

**51. NESHAP Subpart ZZZZ Applicability.** The Permittee shall comply with applicable requirements for existing<sup>31</sup> (EU IDs 8, 9, 20, 21, 28, 33, 34) and new<sup>32</sup> (EU IDs 24A and 25B) stationary reciprocating internal combustion engines (RICE) located at an area source of hazardous air pollutant (HAP) emissions.

- 51.1. For EU IDs 8 and 9, existing stationary SI RICE units, the Permittee shall at all times comply with Conditions 52 through 55.
- 51.2. For EU IDs 20, 21, 28, 33, and 34, existing stationary CI RICE units, the Permittee shall at all times comply with Conditions 56 through 59.
- 51.3. For EU IDs 24A and 25B, new stationary CI RICE units, the Permittee shall meet the requirements of 40 C.F.R. 63 Subpart ZZZZ by meeting the requirements of 40 C.F.R. 60 Subpart IIII in Conditions 37 through 43. 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(c), 63.6590(a)(1)(iii), (a)(2)(iii) & (c)(1), and 63.6605(a), Subpart ZZZZ]

**NESHAP Subpart ZZZZ Requirements for Existing SI RICE, EU IDs 8 and 9**

**52. NESHAP Subpart ZZZZ GAPCP.** The Permittee shall comply with the following:

- 52.1. At all times, operate and maintain EU IDs 8 and 9, including associate air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such 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, review of operation and maintenance procedures, review of operation and maintenance records and inspection of EU IDs 8 and 9.
- 52.2. Minimize the 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, after which time the emission standards in Condition 53 apply at all times.

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

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

[40 C.F.R. 63.6605(b), 63.6625(h) & Table 2d, Subpart ZZZZ]

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<sup>30</sup> The provisions of NESHAP Subpart ZZZZ listed in Condition 44.2 and Conditions 51 through 59 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>31</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>32</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.

**53. NESHAP Subpart ZZZZ Emission Standards and Monitoring.** The Permittee shall install NSCR to reduce HAP emissions from EU IDs 8 and 9, except during periods of startup. The Permittee must demonstrate continuous compliance with the HAP emissions reduction requirements in Condition 53 by:

53.1. Conducting annual compliance demonstrations as specified in Condition 53.3 to show that:

- a. the average reduction of emissions of CO is 75 percent or more,
- b. the average CO concentration is less than or equal to 270 ppmvd at 15 percent O<sub>2</sub>, or
- c. the average reduction of emissions of THC is 30 percent or more.

53.2. Immediately shut down the affected engine if the catalyst inlet temperature exceeds 1250 °F.

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

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

[40 C.F.R. 63.6603(a), 63.6640(a), Table 2d (Item 12) & Table 6 (Item 15.a.i. & a.iii), Subpart ZZZZ]

**53.3. Continuous Compliance Demonstration Requirements.** The Permittee shall conduct annual compliance demonstrations to show that the average reductions of emissions of CO is 75 percent or more, the average CO concentration is less than or equal to 270 ppmvd at 15 percent O<sub>2</sub>, or the average reduction of emissions of THC is 30 percent or more.

- a. The compliance demonstration must consist of at least one test run.
- b. Each test run must be of at least 15-minute duration, except that each test conducted using the method in Appendix A of Subpart ZZZZ must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.
- c. If demonstrating compliance with the CO concentration or CO percent reduction requirement in Condition 53.3, measure CO emissions using one of the CO measurement methods specified in Table 4 of Subpart ZZZZ, or using Appendix A of Subpart ZZZZ.
- d. If demonstrating compliance with the THC percent reduction requirement in Condition 53.3, measure THC emissions using Method 25A, reported as propane, of 40 C.F.R. Part 60 Appendix A.
- e. Measure O<sub>2</sub> using one of the O<sub>2</sub> measurement methods specified in Table 4 of Subpart ZZZZ. Measurements to determine O<sub>2</sub> must be made at the same time as the measurement for CO or THC concentration.
- f. If demonstrating compliance with the CO of THC percent reduction requirement in Condition 53.3, measure CO emissions or THC emissions and O<sub>2</sub> emissions simultaneously at the inlet and outlet of the control device.

- g. If the results of the annual compliance demonstration show that the emissions exceed the levels specified in Table 6 of Subpart ZZZZ (i.e., Condition 53.3), the stationary RICE must be shut down as soon as safely possible and appropriate corrective action must be taken (e.g., repairs, catalyst cleaning, catalyst replacement). The stationary RICE must be retested within 7 days of being restarted and the emissions must meet the levels specified in Condition 53.3. If the retest show that the emissions continue to exceed the specified levels, the stationary RICE must again be shut down as soon as safely possible, and the stationary RICE may not operate, except for the purposes of startup and testing, until subsequent testing demonstrates that emissions do not exceed the levels specified in Condition 53.3.

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

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

[40 C.F.R. 63.6640(a), §63.6640(c); & Table 6, Item 15.a.i, Subpart ZZZZ]

**54. NESHAP Subpart ZZZZ Recordkeeping.** The Permittee shall keep records as follows for each of EU IDs 8 and 9:

- 54.1. Keep records in a form suitable and readily available for expeditious inspection and review, readily accessible in hard copy or electronic form, for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record pertaining to 40 C.F.R. Part 60 applicable requirements. All records may be retained off site.

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

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

[40 C.F.R. 63.6600, §63.6665 & Table 8, Subpart ZZZZ]

[40 C.F.R. 63.10(b)(1), Subpart A]

**55. NESHAP Subpart ZZZZ Reporting Requirements.** The Permittee shall submit compliance reports as follows:

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

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

- 55.1. The Permittee must submit Compliance Reports semiannually covering the semi-annual reporting period for January 1 through June 30 or the semi-annual reporting period from July 1 through December 31 and shall be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semi-annual reporting period.
- 55.2. The Compliance Report must contain the following:
  - a. the results of the annual compliance demonstration under Condition 53.3, if conducted during the reporting period;
  - b. the information in 40 C.F.R. 63.6650(c)(1) through (8); and
  - c. the information in 40 C.F.R. 63.6650(d), as applicable.
- 55.3. The Permittee may submit the semi-annual Compliance Reports according to the dates established in Condition 94 instead of the dates in Condition 55.1.

[40 C.F.R. 63.6650(a), (b)(3) – (5), (c) – (e), & Table 7, Item 3, Subpart ZZZZ]

- 55.4. Include in the operating report required by Condition 94, a report of Subpart ZZZZ 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 of Subpart ZZZZ) was not met.
- a. If the Permittee submits a Compliance Report pursuant to Condition 55.1 with, or as part of, the operating report required by Condition 94, and the Compliance Report includes all required information concerning deviations from any emission or operating limitation, submission of the Compliance Report shall be deemed to satisfy any obligation to report the same deviations in the operating report.
  - b. However, submission of a Compliance Report shall not otherwise affect any obligation to report deviations from permit requirements under Condition 92.
  - c. Beginning on February 26, 2025, the semiannual compliance report required in Table 7 to Subpart ZZZZ must be submitted according to 40 C.F.R. 63.6650(i). Only those elements required under Subpart ZZZZ are required to be submitted according to 40 C.F.R. 63.6650(i).

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

#### **NESHAP Subpart ZZZZ Requirements for Existing CI RICE, EU IDs 20, 21, 28, 33, and 34**

- 56. NESHAP Subpart ZZZZ GAPCP.** 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) & (a)(3)]

- 56.1. At all times, operate and maintain EU IDs 20, 21, 28, 33, and 34, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of EU IDs 20, 21, 28, 33, and 34.

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

- 56.2. 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

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

[40 C.F.R. 63.6625(e)(4), 63.6640(a), & Table 6, Item 9, Subpart ZZZZ]

- 56.3. 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]

**57. NESHAP Subpart ZZZZ Work and Management Practices Standards and Monitoring.** 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)(1), 63.6640(a), & 63.6625(i), Subpart ZZZZ]

[Table 2d & Table 6, Subpart ZZZZ]

- 57.1. Except during periods of startup, the Permittee shall meet the following requirements:

- a. Change oil and filter every 1,000 hours of operation or within 1 year + 30 days of the previous change, whichever comes first, except as allowed by Condition 57.4;
- b. Inspect air cleaner every 1,000 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary; and
- c. Inspect all hoses and belts every 500 hours of operation or within 1 year + 30 days of the previous inspection, whichever comes first, and replace as necessary.

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

- 57.2. During periods of startup, the Permittee shall comply with Condition 56.3.

[Table 2d, Item 1, Subpart ZZZZ]

- 57.3. Demonstrate continuous compliance with the requirements in Condition 57.1 by complying with Condition 56.2.

[40 C.F.R. 63.6640(a) & Table 6, Item 9, Subpart ZZZZ]

- 57.4. The Permittee has the option to utilize an oil analysis program in order to extend the specified oil change requirements in Condition 57.1.a, as described below:

- a. The oil analysis must be performed at the same frequency specified for changing the oil in Conditions 57.1.a.

- b. The analysis program must, at a minimum, analyze the following three parameters: Total Base Number (for CI engines), viscosity, and percent water content. The condemning limits for these parameters are as follows:
  - (i) Total Base Number is less than 30 percent of the Total Base Number of the oil when new;
  - (ii) viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or
  - (iii) percent water content (by volume) is greater than 0.5.
- c. If all of the condemning limits in Conditions 57.4.b(i) through 57.4.b(iii) are not exceeded, the Permittee is not required to change the oil.
- d. If any of the limits in Conditions 57.4.b(i) through 57.4.b(iii) is exceeded, the Permittee must change the oil within 2 business days of receiving the results of the analysis.
  - (i) If the engine is not in operation when the results of the analysis are received, the Permittee must change the oil within 2 business days or before commencing operation, whichever is later.
- e. The analysis program must be part of the maintenance plan for the engine.

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

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

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

- 58.1. If electing to operate and maintain EU IDs 20, 21, 28, 33, and 34 according to a maintenance plan developed by the Permittee as allowed under Condition 56.2.b, keep records of the maintenance conducted in order to demonstrate that the stationary RICE and after-treatment control device (if any) are operated and maintained according to the maintenance plan for EU IDs 20, 21, 28, 33, and 34.

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

- 58.2. If electing to utilize the oil analysis program described in Condition 57.4, keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine.

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

- 58.3. Keep records in a form suitable and readily available for expeditious inspection and 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 the most recent 2 years of data 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]

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

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

59.1. Include in the operating report required by Condition 94, 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), Subpart ZZZZ]

#### **40 C.F.R. Part 61 National Emission Standards for Hazardous Air Pollutants (NESHAP)**

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

**60.** The Permittee shall comply with the applicable requirements set forth in 40 C.F.R. 61.145 and 61.150 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. Part 82 Protection of Stratospheric Ozone**

**61. 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. Applicable requirements include 40 C.F.R. 82.154, §82.156, §82.161, and §82.166.

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

**62. Subpart G – Significant New Alternatives.** The Permittee shall comply with the applicable prohibitions set out in 40 C.F.R. 82.174(b) – (d) (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]

**63. Subpart H – Halons Emissions Reduction.** The Permittee shall comply with the applicable prohibitions set out in 40 C.F.R. 82.270(b) – (f) (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**

**64.** 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).

64.1. 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).

- 64.2. 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 6. General Conditions

### Standard Terms and Conditions

65. 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)]

66. 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)]

67. 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)]

68. **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]

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

69.1. potential to emit of 705.39 TPY; or

69.2. 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]

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

- 70.1. 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 69.2. 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/>.
- 70.2. The Permittee shall include with the assessable emissions report all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.
- 70.3. 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 69.1.

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

**71. Good Air Pollution Control Practice (GAPCP).** The Permittee shall do the following for EU IDs 10, 12, 38, and 39:

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

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

**72. 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)]

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

- 73.1. 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 73.1.a or to address the results of Department inspections that found potential problems; and
    - (ii) to prevent future dust problems.

- 73.2. The Permittee shall report according to Condition 75.3.

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

**74. 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)]

**75. 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)]

**75.1. 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 75.
- 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 75; or
  - (ii) the Department notifies the Permittee that it has found a violation of Condition 75.

**75.2. 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 75; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

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

- a. With each stationary source operating report under Condition 94, 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 92.

**76. 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>33</sup> listed in Conditions 20, 33, 35, 40, 47.1, 53.1, or 61 (refrigerants), the Permittee shall

76.1. take all reasonable steps to minimize levels of emissions that exceed the standard; and

76.2. report in accordance with Condition 92.1.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

**77. Open Burning.** The Permittee shall not conduct open burning at the stationary source.

77.1. Confirm in the annual certification required under Condition 95 that open burning is not conducted at the stationary source.

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

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<sup>33</sup> As defined in 18 AAC 50.990(106), the term “*technology-based emission standard*” means a best available control technology (BACT) standard; a lowest achievable emission rate (LAER) standard; a maximum achievable control technology (MACT) standard established under 40 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 7. General Source Testing and Monitoring Requirements

**78. 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)]

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

[18 AAC 50.220(b)]

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

79.2. 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.

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

80.1. 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 50.220(c)(1)(A) & 50.040(a)]  
[40 C.F.R. 60]

80.2. 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]

80.3. 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]

80.4. Source testing for the reduction in visibility through the exhaust effluent must be conducted in accordance with the procedures set out in Reference Method 9. The Permittee may use the form in Section 12 to record data.

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

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

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

80.6. 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]

80.7. 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]

**81. 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)]

**82. Test Exemption.** The Permittee is not required to comply with Conditions 84, 85 and 86 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.2).

[18 AAC 50.345(a)]

**83. 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)]

**84. Test Plans.** Except as provided in Condition 82, 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 78 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.

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

**85. Test Notification.** Except as provided in Condition 82, 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)]

**86. Test Reports.** Except as provided in Condition 82, 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 89. 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)]

**87. Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 6 and 22.2, the three-hour average is determined using the average of three one-hour test runs.

[18 AAC 50.220(f)]

## Section 8. General Recordkeeping and Reporting Requirements

### Recordkeeping Requirements

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

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

88.2. 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

89. **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.

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

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

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

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

90.1. 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)]

**91. 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)]

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

92.1. **Excess Emissions Reporting.** Except as provided in Condition 75, 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 92.1.d.
- d. Report all other excess emissions not described in Conditions 92.1.a, 92.1.b, and 92.1.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 94 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)]

**92.2. Permit Deviations Reporting.** For permit deviations that are not “excess emissions,” as defined under 18 AAC 50.990:

- a. Report according to the required deadline for failure to monitor, as specified in other applicable conditions of this permit (Conditions 4.3.b and 9.3.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 94 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)]

**92.3. 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 14 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department’s Standard Permit Conditions webpage found at <http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/>.

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

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

- 93.1. 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 50.265(4)(B) & 50.326(j)]

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

**94. Operating Reports.** During the life of this permit<sup>34</sup>, the Permittee shall submit to the Department an operating report in accordance with Conditions 89 and 90 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.

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<sup>34</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.

- 94.1. 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.
- 94.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 94.1, the Permittee shall identify
- a. the date of the excess emissions or permit deviation;
  - b. the equipment involved;
  - c. the permit condition affected;
  - d. a description of the excess emissions or permit deviation; and
  - e. any corrective action or preventive measures taken and the date(s) of such actions; or
- 94.3. when excess emissions or permit deviation reports have already been submitted under Condition 92 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.
- 94.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.2.e, 7.2, and 34.1.a, 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.
- 94.5. **Transition from expired to renewed permit.** For the first period of this renewed operating permit, also provide the previous permit's operating report elements covering that partial period immediately preceding the effective date of this renewed permit.

[18 AAC 50.346(b)(6) & 50.326(j)]

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

- 95. 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 90.

- 95.1. Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, as follows:
- a. identify each term or condition set forth in Section 3 through Section 10, 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.
- 95.2. **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.
- 95.3. 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)]

**96. Triennial Emission Inventory Reporting.** Every third year by April 30, 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:

- 96.1. The Permittee shall report the annual emissions and the required data elements under Condition 96.2 every third year for the previous calendar year as scheduled by the EPA.<sup>35</sup>
- 96.2. For each emissions unit and the stationary source, include in the report the required data elements<sup>36</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>.

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<sup>35</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.).

<sup>36</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.

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

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

**97. Consistency of Reporting Methodologies.** 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.

97.1. For the purposes of reporting actual or assessable emissions required under Condition 96 and Condition 69.2, the Permittee shall use consistent pollutant-specific emissions 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]

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

98.1. **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 94 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.

98.2. **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)]

**99. Federal Electronic Reporting Allowance:** Effective September 25, 2024, 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.

- 99.1. 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.
- 99.2. 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 9. Permit Changes and Renewal

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

- 100.1. 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;
- 100.2. 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;
- 100.3. 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
- 100.4. 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)]

**101. 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)]

**102. 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:

- 102.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;
- 102.2. 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;
- 102.3. The change shall not qualify for the shield under 40 C.F.R. 71.6(f);

102.4. 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)]

**103. Operational Flexibility.** The Permittee may make CAA Section 502(b)(10)<sup>37</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).

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

103.2. For each such change, the notification required by Condition 103.1 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.

103.3. The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 103.

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

**104. Permit Renewal.** To renew this permit, the Permittee shall submit to the Department<sup>38</sup> an application under 18 AAC 50.326 no sooner than **<18 months before the expiration date of this permit>** and no later than **<6 months before the expiration date of this permit>**, and according to the submittal instructions found in Conditions 90 and 100. 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>37</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.

<sup>38</sup> Submit permit applications to the Department's Permit Intake Clerk email address at [dec.aq.airreports@alaska.gov](mailto:dec.aq.airreports@alaska.gov). If email is unavailable, submit one certified paper copy to the Department's Anchorage office. The current address is: Air Permit Intake Clerk, ADEC, 555 Cordova Street, Anchorage, AK 99501.

## Section 10. Compliance Requirements

### General Compliance Requirements

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

105.1. included and specifically identified in the permit; or

105.2. determined in writing in the permit to be inapplicable.

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

**106.** 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

106.1. an enforcement action;

106.2. permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or

106.3. denial of an operating permit renewal application.

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

**107.** 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)]

**108.** 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)]

**109.** 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)]

**110.** 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 Permittee, to

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

110.2. have access to and copy any records required by the permit;

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

110.4. 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)]

## Section 11. 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.

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

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

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

### 112. Table E 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 E becomes applicable during the permit term, the Permittee shall comply with such requirements on a timely basis, including, but not limited to, providing appropriate notification to EPA, obtaining a construction permit and/or an operating permit revision.

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

**Table E - Permit Shields Granted**

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
1, 2, 3, 4	40 C.F.R. 60 Subpart A – General Provisions 40 C.F.R. 60.7(a)(1) & (a)(3)	Requirements have been met for initial notification.
	40 C.F.R. 60 Subpart A – General Provisions 40 C.F.R. 60.7(8)	There are no continuous monitoring systems at the stationary source. Notifications apply to start up conditions only and would not be applicable to operation.
	40 C.F.R. 60 Subpart GG – Standards of Performance (NSPS) for Stationary Gas Turbines 40 C.F.R. 60.332(a)(1)	Standard applies to electric utility stationary gas turbines as defined in Subpart GG. There are no affected sources within the stationary source.
	40 C.F.R. 60 Subpart GG 40 C.F.R. 60.332(a), (b), and (d) 40 C.F.R. 60.335(b)(4)	Applies only to affected turbines equipped with water injection to control emissions of NO <sub>x</sub> . These emissions units are not equipped with water injection to control emissions of NO <sub>x</sub> .
	40 C.F.R. 60 Subpart GG 40 C.F.R. 60.332(e) & (f)	These emissions units commenced construction prior to July 8, 2004.
	40 C.F.R. 60 Subpart GG 40 C.F.R. 60.334(g)	These emissions units are not subjected to the continuous monitoring requirements of §60.334(a), (d), or (f).
	40 C.F.R. 60 Subpart GG 40 C.F.R. 60.334(h)(2)	Applies only to owners/operators who claimed an allowance for fuel bound nitrogen to calculated to NO <sub>x</sub> emission limit under §60.332. Hilcorp has not made such claims for these units.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
	40 C.F.R. 60 Subpart KKKK – NSPS for Stationary Combustion Turbines	Construction, modifications, or reconstruction of each turbine commenced prior to the subpart applicability date of February 18, 2005.
	40 C.F.R. 63 Subpart YYYY – National Emission Standards for HAP (NESHAP) for Stationary Combustion Turbines	Stationary source is not a major HAP source.
8, 9	40 C.F.R. 60 Subpart IIII – NSPS for Stationary Compression Ignition Internal Combustion Engines	This subpart applies to compression ignition engines. These emissions units are spark ignition engines.
	40 C.F.R. 60 Subpart JJJJ – NSPS for Stationary Spark Ignition Internal Combustion Engines	Construction, modification, or reconstruction of these engines commenced prior to the subpart applicability date of June 12, 2006.
	40 C.F.R. 63 Subpart ZZZZ – NESHAP for Stationary RICE 40 C.F.R. 63.6604	These engines are not compression ignition engines.
	40 C.F.R. 63 Subpart ZZZZ – NESHAP for Stationary RICE 40 C.F.R. 63.6615 40 C.F.R. 63.6620	These engines are subject to an emissions standard, not a numerical emission limitation under Subpart ZZZZ. The initial compliance demonstration and annual continuous compliance demonstrations require verification of “compliance demonstration levels” via an abbreviated stack test but such tests are not considered “performance tests” under Subpart ZZZZ.
	40 C.F.R. 63 Subpart ZZZZ – NESHAP for Stationary RICE 40 C.F.R. 63.6625(a)	No CEMS requirement for these engines.
	40 C.F.R. 63 Subpart ZZZZ – NESHAP for Stationary RICE 40 C.F.R. 63.6625(e)	The engines are not the type of RICE listed under §63.6625(e)(1) – (10).
	40 C.F.R. 63 Subpart ZZZZ – NESHAP for Stationary RICE 40 C.F.R. 63.6625(f) 40 C.F.R. 63.6640(f) 40 C.F.R. 63.6650(h)	These are not emergency engines.
8, 9	40 C.F.R. 63 Subpart ZZZZ – NESHAP for Stationary RICE 40 C.F.R. 63.6645(a) 40 C.F.R. 63 Subpart A 40 C.F.R. 63.8(e), (f)(4) & (f)(6) 40 C.F.R. 63.9(b) – (e), (g) & (h)	These engines are subject to an emissions standard, not a numerical emission limitation under Subpart ZZZZ. Per 40 C.F.R. 63.6645(a)(5), existing stationary RICE that are not subject to any numerical emission standards are not subject to the notification requirements of these sections.
	40 C.F.R. 63.6645(b) – (f), Subpart ZZZZ	The stationary source is not a major source of HAP emissions.
10 and 12	40 C.F.R. 63 Subpart DDDDD – NESHAP for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters	Stationary source is not a major source of HAP emissions.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
	40 C.F.R. 63 Subpart JJJJJ – NESHAP for Industrial, Commercial, and Institutional Boilers Area Sources	These emissions units are not industrial, commercial, or institutional “boilers” as defined in 40 C.F.R. 63.11237.
20, 21, 28, 33, 34	40 C.F.R. 60 Subpart IIII	These emissions units were manufactured prior to the April 1, 2006 applicability date of this rule (see 40 C.F.R. 60.4200(a)(2)(i)) and have not been modified or reconstructed after July 11, 2005 (see 40 C.F.R. 60.4200(a)(3)).
24A, 25B	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4201(b) – (e)	These engines are rated less than 3000 hp and are not marine engines.
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4202	These are not emergency engines.
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4204(a) & (c)	These engines are not pre-2007 model year engines and do not have a displacement greater than or equal to 30 liters per cylinder.
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4205	These are not emergency engines.
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4207	The stationary source is located in an area that is not accessible by the Federal Aid Highway System and the engines are pre-2014 model year engines. [40 C.F.R. 60.4216(d)]
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4211(b) & (d)	These engines are not pre-2007 model year engines and do not have a displacement greater than or equal to 30 liters per cylinder.
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4211(f)	These are not emergency engines.
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 60.4214(a) 40 C.F.R. 60.7 Subpart A	These engines: 1) are not rated greater than 2,237 kW (3,000 hp); 2) do not have a displacement of greater than or equal to 10 liters per cylinder; and 3) are not pre-2007 model year engine.  (See NSPS Subpart IIII, Table 8, and §60.4214(a) for applicability of 40 C.F.R. 60.7 to engines affected by Subpart IIII.)
	40 C.F.R. 60.4214 (b) & (d), Subpart IIII	These are not emergency engines.
40 C.F.R. 60.11 Subpart A	40 C.F.R. 60.11 is specifically excluded from the list of Subpart A elements that apply to NSPS Subpart IIII [Table 8, Subpart IIII].	
40 C.F.R. 60.13 Subpart A	40 C.F.R. 60.13 only applies to stationary CI ICE with a displacement greater than or equal to 30 liters per cylinder [Table 8, Subpart IIII].	
20, 21, 24A, 25B, 28, 33, 34	40 C.F.R. 60 Subpart JJJJ	This subpart applies to spark ignition engines. These engines are compression ignition engines.
20, 21, 28, 33, 34	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6600 40 C.F.R. 63.6601 40 C.F.R. 63.6602	The stationary source is not a major source of HAP emissions.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
	40 C.F.R. 63 Subpart ZZZZ Tables 2a and 2c	There are not requirements in Tables 2a or 2c of Subpart ZZZZ that apply to these engines because they are existing CI RICE located at an area source of HAP emissions.
	40 C.F.R. 63 Subpart ZZZZ Table 2b	<b>EU IDs 20, 21:</b> Requirements of Table 2b do not apply to these engines because there are no emissions limitations (i.e, the CO emission limitations in Table 2d do not apply for existing stationary non-emergency CI RICE > 300 bhp located at an area source in areas of Alaska not accessible by the Federal Air Highway System (FAHS). [40 C.F.R. 63.6603(b)(1)]. <b>EU IDs 28, 33, 34:</b> There are no requirements in Table 2b of Subpart ZZZZ that apply to existing stationary CI RICE rated less than or equal to 500 bhp.
	40 C.F.R. 63 Subpart ZZZZ Table 2d	<b>EU IDs 20, 21:</b> Per §63.6603(b)(1), the CO emission limits in Table 2d do not apply to existing stationary non-emergency CI RICE > 300 bhp located at area sources in areas of Alaska not accessible by the FAHS. <b>EU IDs 28, 33, 34:</b> There are no CO emission limits in Table 2d that apply to engines rated less than or equal to 300 bhp.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6610 40 C.F.R. 63.6611	The stationary source is not a major source of HAP emissions.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6612	<b>EU IDs 20, 21:</b> There are no requirements in either Table 4 or Table 5 of Subpart ZZZZ that apply to these engines because there are no applicable CO emission limitations for existing stationary non-emergency CI RICE >300 bhp located at an area source in areas of Alaska not accessible by the FAHS. [40 C.F.R. 63.6603(b)(1)] <b>EU IDs 28, 33, 34:</b> There are no requirements in either Table 4 or Table 5 of Subpart ZZZZ that apply to these engines because there are no CO emission limits that apply to engines rated less than or equal to 300 bhp.
20, 21, 28, 33, 34	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6615 40 C.F.R. 63.6620 40 C.F.R. 63.6625(a) & (b) Table 3 & Table 4	<b>EU IDs 20, 21:</b> These requirements do not apply to these engines because there are no CO emission limitations for existing stationary non-emergency CI RICE > 300 bhp located at an area source in areas of Alaska not accessible by FAHS. [40 C.F.R. 63.6603(b)(1)]. <b>EU IDs 28, 33, 34:</b> These requirements do not apply to these engines because there are no CO emission limitations that apply to engines rated less than or equal to 300 bhp.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6625(f) 40 C.F.R. 63.6640(f)	<b>EU IDs 20, 21, 28:</b> These are not emergency engines. <b>EU IDs 33, 34:</b> Hilcorp has elected not to classify these as emergency engines under Subpart ZZZZ.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6625(g)	<b>EU IDs 20, 21:</b> This requirement does not apply to existing non-emergency CI RICE > 300 bhp located at an area source in areas of Alaska not accessible by the FAHS. [40 C.F.R. 63.6625(g)] <b>EU IDs 28, 33, 34:</b> This requirement does not apply to CI RICE rated less than or equal to 300 bhp.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6630 40 C.F.R. 63.6635	These requirements apply only to stationary RICE subject to emissions or operation limits. There are no emissions or operational limits that apply to these engines.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6645(a) Under 40 C.F.R. 63 Subpart A 40 C.F.R. 63.8(e), (f)(4) & (f)(6) 40 C.F.R. 63.9(b) – (e), (g) & (h)	Per 40 C.F.R. 63.6645(a)(5), existing stationary RICE that are not subject to any numerical emission standards are not subject to the notification requirements of these sections.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6645(b) – (f)	The stationary source is not a major source of HAP emissions.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6645(h)	There are no performance testing or other initial compliance demonstration requirements that apply to these engines because there are no emission or operating limits that apply.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6640(b) 40 C.F.R. 63.6650(a) – (e)	Compliance status reporting requirements only apply to stationary RICE subject to numerical emissions or operating limits. There are no emissions or operating limits that apply to these engines.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6650(h)	<b>EU IDs 20, 21, 28:</b> These are not emergency engines. <b>EU IDs 33, 34:</b> These engines do not operate for the purpose specified in §63.6640(f)(4)(ii).
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6655(a), (b), & (d)	There are no emission or operating limits that apply to these engines.
	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6655(f)	These engines are not classified as emergency engines for purposes of Subpart ZZZZ. Therefore, they are not required to limit hours of operation per 40 C.F.R. 63.6640(f).
20, 21, 28, 33, 34	40 C.F.R. 63 Subpart ZZZZ 40 C.F.R. 63.6645(g) 40 C.F.R. 63.7, Subpart A	There are no performance testing requirements that apply to these engines because there are no emission limits that apply.
38 and 39	40 C.F.R. 60 & 63, Subpart A	The flares are not control devices used to comply with applicable subparts of 40 C.F.R. 60, 61, or 63.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Tank IEUs (Including Tanks 10# and 12# from S12)	40 C.F.R. 60 Subpart K – NSPS for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978	Vessels commenced construction prior to or after the effective dates of Subpart K (6/12/73 – 5/18/78).
	40 C.F.R. 60 Subpart Ka – NSPS for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984	<p><b>All vessels except the Spartan 151 diesel storage vessels:</b>                      Commenced construction prior to the effective dates of Subpart Ka (5/19/78 – 7/22/84).</p> <p><b>Spartan 151 Drill Rig diesel storage vessels:</b> Each vessel storage capacity is below the Subpart Ka applicability threshold (40,000 gallons).</p>
	40 C.F.R. 60 Subpart Kb – NSPS for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984	Vessels commenced construction prior to effective date of Subpart Kb (7/23/84).
Activities subjected to 40 C.F.R. 61 Subpart M	40 C.F.R. 61 Subpart A 40 C.F.R. 61.05(a) 40 C.F.R. 61.07 40 C.F.R. 61.09	Owners or operators of demolition and renovation operations are exempt from the requirements of §61.05(a), §61.07, and §61.09. [40 C.F.R. 61.145(a)(5)].
	40 C.F.R. 61 Subpart A 40 C.F.R. 61.10	Demolition and renovation operations exempt from §61.10(a). [40 C.F.R. 61.153(b)].
	40 C.F.R. 61 Subpart A 40 C.F.R. 61.13 40 C.F.R. 61.14	Emission tests or monitoring is not required under the standards for demolition and renovation. [40 C.F.R. 61.145].
	40 C.F.R. 61.152 Subpart M – NESHAP Air Cleaning for Asbestos.	The Tyonek Platform does not use air cleaning equipment.
	40 C.F.R. 61.153 Subpart M – NESHAP Reporting Requirements for Asbestos.	No reporting requirements apply for emissions units subject to 40 C.F.R. 61.145 (demolition and renovation) [40 C.F.R. 61.153(a)].
Stationary Source Wide	40 C.F.R. 60 Subpart KKK – NSPS for Equipment Leaks of VOC From Onshore Natural Gas Processing Plants for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011 40 C.F.R. 60 Subpart LLL – NSPS for SO <sub>2</sub> Emissions From Onshore Natural Gas Processing for Which Construction, Reconstruction, or Modification Commenced After January 20, 1984, and on or Before August 23, 2011	Tyonek Platform is an offshore stationary source.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
	<p>40 C.F.R. 60 Subpart OOOO – NSPS for Crude Oil and Natural Gas Facilities for Which Construction, Modification, or Reconstruction Commenced After August 23, 2011, and on or Before September 18, 2015</p> <p>40 C.F.R. 60 Subpart OOOOa – NSPS for Crude Oil and Natural Gas Facilities for Which Construction, Modification or Reconstruction Commenced After September 18, 2015 and On or Before December 6, 2022</p>	<p>These subparts apply only to onshore oil and gas operations (See 40 C.F.R. 60.5365 and §60.5365a.) This stationary source is located beyond the low tide line in territorial seas. Therefore, the source does not meet the definition of “onshore” as provided in §60.5430 and §60.5430a.</p>
	<p>40 C.F.R. 61 Subpart V – NESHAP for Equipment Leaks</p>	<p>Stationary source does not operate equipment in volatile hazardous air pollutant (VHAP) service (greater than or equal to 10 percent VHAP by weight). [40 C.F.R. 61.240 and §61.241].</p>
<p>Stationary Source Wide</p>	<p>40 C.F.R. 63 Subpart HH – NESHAP from Oil and Natural Gas Production Facilities</p> <p>40 C.F.R. 63.764(c) &amp; (d)</p> <p>40 C.F.R. 63.765</p> <p>40 C.F.R. 63.766</p> <p>40 C.F.R. 63.769</p> <p>40 C.F.R. 63.771</p> <p>40 C.F.R. 63.772 (all except §63.772(b)(2))</p> <p>40 C.F.R. 63.773</p> <p>40 C.F.R. 63.774 (all except §63.774(d)(1)(ii))</p> <p>40 C.F.R. 63.775</p>	<p>The Tyonek Platform is not a major source of HAPs as defined under any subpart of 40 C.F.R. 63. Furthermore, the Tyonek Platform is not subject to the Subpart HH area source control requirements or ongoing monitoring, recordkeeping, or reporting because the facility is not located within an urban area as defined by Subpart HH and per-dehydrator actual annual average benzene emissions are less than 0.9 Mg/yr (i.e., 1 TPY), excluding controls.</p> <ul style="list-style-type: none"> <li>• §63.764(c) only applies to major sources.</li> <li>• Non-applicability of §63.764(d) is indicated under §63.764(e)(1).</li> <li>• Non-applicability of §63.765 is indicated under §63.765(a) because no control of emissions is required for the dehydration units.</li> <li>• §63.766 and §63.769 only apply to major sources.</li> <li>• §63.771 and §63.773 are not applicable because no control of emissions is required by the subpart.</li> <li>• The non-applicability of §63.774 is indicated under §63.774(b) and (d)(1).</li> <li>• §63.775(b) only applies to major sources.</li> <li>• The non-applicability of §63.775(c) is indicated under §63.775(c)(8).</li> <li>• §63.775(d) applies only to major sources as indicated under §63.775(b)(4).</li> <li>• §63.775(e) applies only to major source or area sources within urban areas as defined under Subpart HH. See §63.775(e) and (e)(3).</li> </ul>

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
	40 C.F.R. 63 Subpart HHH – NESHAP for Natural Gas Transmission and Storage Facilities	The Tyonek Platform operates prior to the point of custody transfer and is not a major source of HAP emissions as defined in Subpart HHH.
	40 C.F.R. 63 Subpart EEEE – NESHAP for Organic Liquids Distribution (Non-Gasoline)	Stationary source is not a major source of HAP emissions.
Stationary Source Wide	40 C.F.R. 64 – Compliance Assurance Monitoring	<p><b>EU IDs 8, 9:</b> Rule applies to emissions units that use an add-on control device to meet an emission limit or standard and that have pre-control emissions greater than 100 TPY for the pollutant for which the control device is operated. These units do not have pre-control device NO<sub>x</sub> emissions greater than 100 TPY.</p> <p><b>All other EUs:</b> Pollutant-specific emissions unit control device are not used by these units to achieve compliance with any emission limitation or standard.</p>
	40 C.F.R. 68 – Accidental Release Prevention Requirements: Risk Management Programs	The Tyonek Platform, a crude petroleum and natural gas extraction facility (NAICS code 211120), does not process or store regulated flammable or toxic substances in excess of threshold quantities. “Naturally occurring hydrocarbon mixtures” (crude oil, condensate, natural gas and produced water) prior to entry into a petroleum refining process unit (NAICS code 324110) or a natural gas processing plant (NACIS code 211130) are exempt from the threshold determination. [40 C.F.R. 68.115]
	18 AAC 50.070 - Marine, vessel visible emission standards	Stationary source is more than 3 miles from shore.
All Nonroad engines	18 AAC 50.055(a)(1), 18 AAC 50.055(b)(1), & 18 AAC 50.055(c)	Nonroad (mobile) internal combustion engines are not included in the definition of fuel-burning equipment (18 AAC 50.990).
	40 C.F.R. 60 Subpart IIII 40 C.F.R. 63 Subpart ZZZZ	These subparts do not apply to nonroad engines.

## Section 12. Visible Emissions Observation Form

### VISIBLE EMISSIONS OBSERVATION FORM

This form is designed to be used in conjunction with EPA Method 9, “Visual Determination of the Opacity of Emissions from Stationary Sources.” Temporal changes in emission color, plume water droplet content, background color, sky conditions, observer position, etc. should be noted in the comments section adjacent to each minute of readings. Any information not dealt with elsewhere on the form should be noted under Additional Information. Following are brief descriptions of the type of information that needs to be entered on the form. For a more detailed discussion of each part of the form, refer to “Instructions for Use of Visible Emission Observation Form” (a copy is available in <https://www3.epa.gov/ttnemc01/methods/webinar8.pdf>).

- Source Name: full company name, parent company or division or subsidiary information, if necessary.
- Address: street (not mailing or home office) address of facility where visible emissions observation is being made.
- Phone (Key Contact): number for appropriate contact.
- Stationary Source ID Number: number from NEDS, agency file, etc.
- Process Equipment, Operating Mode: brief description of process equipment (include type of facility) and operating rate, % capacity, and/or mode (e.g., charging, tapping, shutdown).
- Control Equipment, Operating Mode: specify type of control device(s) and % utilization, control efficiency.
- Describe Emission Point: for identification purposes, stack or emission point appearance, location, and geometry; and whether emissions are confined (have a specifically designed outlet) or unconfined (fugitive).
- Height Above Ground Level: stack or emission point height relative to ground level; can use engineering drawings, Abney level, or clinometer.
- Height Relative to Observer: indicate height of emission point relative to the observation point.
- Distance from Observer: distance to emission point; can use rangefinder or map.
- Direction from Observer: direction plume is traveling from observer.
- Describe Emissions and Color: include physical characteristics, plume behavior (e.g., looping, lacy, condensing, fumigating, secondary particle formation, distance plume visible, etc.), and color of emissions (gray, brown, white, red, black, etc.). Note color changes in comments section.
- Visible Water Vapor Present?: check “yes” if visible water vapor is present.
- If Present, note in the Comments column whether the Plume is “attached” if water droplet plume forms prior to exiting stack, and “detached” if water droplet plume forms after exiting stack.
- Point in Plume at Which Opacity was Determined: describe physical location in plume where readings were made (e.g., 1 ft above stack exit or 10 ft. after dissipation of water plume).
- Describe Plume Background: object plume is read against, include texture and atmospheric conditions (e.g., hazy).
- Background Color: sky blue, gray-white, new leaf green, etc.
- Sky Conditions: indicate color of clouds and cloud cover by percentage or by description (clear, scattered, broken, overcast).
- Wind Speed: record wind speed; can use Beaufort wind scale or hand-held anemometer to estimate.
- Wind Direction From: direction from which wind is blowing; can use compass to estimate to eight points.
- Ambient Temperature: in degrees Fahrenheit or Celsius.
- Wet Bulb Temperature: can be measured using a sling psychrometer
- RH Percent: relative humidity measured using a sling psychrometer; use local US Weather Bureau measurements only if nearby.
- Source Layout Sketch: include wind direction, sun position, associated stacks, roads, and other landmarks to fully identify location of emission point and observer position.
- Draw North Arrow: to determine, point line of sight in direction of emission point, place compass beside circle, and draw in arrow parallel to compass needle.
- Sun’s Location: point line of sight in direction of emission point, move pen upright along sun location line, mark location of sun when pen’s shadow crosses the observer’s position.
- Observation Date: date observations conducted.
- Start Time, End Time: beginning and end times of observation period (e.g., 1635 or 4:35 p.m.).
- Data Set: percent opacity to nearest 5%; enter from left to right starting in left column. Use a second (third, etc.) form, if readings continue beyond 30 minutes. Use dash (-) for readings not made; explain in adjacent comments section.
- Comments: note changing observation conditions, plume characteristics, and/or reasons for missed readings.
- Range of Opacity: note highest and lowest opacity number.
- Observer’s Name: print in full.
- Observer’s Signature, Date: sign and date after performing VE observation.
- Observer’s Affiliation: observer’s employer.
- Certifying Organization, Certified By, Date: name of “smoke school,” certifying observer, and date of most recent certification.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION AIR PERMITS PROGRAM - VISIBLE EMISSIONS OBSERVATION FORM							Page No.
Stationary Source Name		Type of Emission Unit		Observation Date		Start Time	End Time
Emission Unit Location			Sec	0	15	30	45
City			Min	Comments			
State		Zip		1			
Phone # (Key Contact)		Stationary Source ID Number		2			
Process Equipment		Operating Mode		3			
Control Equipment		Operating Mode		4			
Control Equipment		Operating Mode		5			
Describe Emission Point/Location				6			
Height above ground level	Height relative to observer	Cinometer Reading		7			
Distance From Observer		Direction From Observer		8			
Start	End	Start	End	9			
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			
				Additional Information:			
				Range of Opacity:			
				Minimum		Maximum	
I have received a copy of these opacity observations				Print Observer's Name			
Print Name:				Observer's Signature		Date	
Signature:				Observer's Affiliation:			
Title		Date		Certifying Organization:		Date	
				Certified By:		Date	
<b>Data Reduction:</b>							
Duration of Observation Period (minutes):				Duration Required by Permit (minutes):			
Number of Observations:				Highest Six-Minute Average Opacity (%):			
Number of Observations exceeding 20%:				Highest 18-Consecutive -Minute Average Opacity (%)(engines and turbines only)			
In compliance with six-minute opacity limit? (Yes or No)							
<b>Average Opacity Summary:</b>							
Set Number	Time		Opacity		Sum	Average	Comments
	Start	End					

### Section 13. SO<sub>2</sub> Material Balance Calculation<sup>39</sup>

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:

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

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 is obtained pursuant [to Condition 18.2.a(i) or Condition 18.2.a(ii)]. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

The volume percent of oxygen in the exhaust (**vol%<sub>dry</sub>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%<sub>dry</sub>O<sub>2, exhaust</sub>** = 3.00%, then enter 3.00, not 0.03.

[18 AAC 50.346(c)]

<sup>39</sup> Revised as of November 7, 2020

**Section 14. ADEC Notification Form<sup>40</sup>**

Tyonek Platform

AQ0091TVP03

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>41</sup>, CO<sup>42</sup>, or Settlement Agreement - Complete Section 2 and Certify

<sup>40</sup> Revised as of July 22, 2020.

<sup>41</sup> Compliance Order By Consent

<sup>42</sup> Compliance Order

### Section 1. Excess Emissions

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

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

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

(c) **Description**

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

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

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

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

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

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

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

Control Equipment Down

Fugitive Emissions

Emission Limit Exceeded

Marine Vessel Opacity

Flaring

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

(f) **Corrective Actions:**

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

(g) **Unavoidable Emissions:**

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

YES

NO

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

YES

NO

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

### Section 2. Permit Deviations

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

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

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

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

EU ID	EU Name	Permit Condition /Potential Deviation

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

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

**(d) Corrective Actions:**

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

**Certification:**

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

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

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

***NOTE:*** *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 89.)*

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)]