DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0200TVP03 Issue Date: Public Comment - August 2, 2019

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 **Milne Point Production Facility** (Central Facilities Pad and E-Pad).

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

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

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

Upon effective date of this permit, Operating Permit No. AQ0200TVP02, including all revisions, expires.

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

James R. Plosay, Manager
Air Permits Program

Table of Contents

Abbreviations and Acronyms

AAAQS .....Alaska Ambient Air Quality Standards
AAC.....Alaska Administrative Code
ADEC .....Alaska Department of Environmental Conservation
AS .....Alaska Statutes
ASTM .....American Society for Testing and Materials
BACT .....best available control technology
bHp .....brake horsepower
CAA or The Act .Clean Air Act
CDX.....Central Data Exchange
CEDRI .....Compliance and Emissions Data Reporting Interface
CFP .....Central Facilities Pad
CFR .....Code of Federal Regulations
CI .....compression ignition
CO .....carbon monoxide
dscf .....dry standard cubic foot
DWI .....direct water injection
EPA .....US Environmental Protection Agency
EU.....emissions unit
gph .....gallons per hour
gr/dscf .....grain per dry standard cubic foot (1 pound = 7000 grains)
H_2S.....hydrogen sulfide
HAPs .....hazardous air pollutants [as defined in AS 46.14.990]
hp .....horsepower
ID.....emissions unit identification number
ISO.....International Organization for Standardization
kPa .....kiloPascals
LAER.....lowest achievable emission rate
MACT .....maximum achievable control technology [as defined in 40 CFR 63]
MMBtu/hr.....million British thermal units per hour
MMscf .....million standard cubic feet
MR&R.....monitoring, recordkeeping, and reporting
MW .....megawatt
NAICS.....North American Industrial Classification System
NESHAP .....National Emission Standards for Hazardous Air Pollutants [as contained in 40 CFR 61 and 63]
NH_3.....ammonia
NO_X .....nitrogen oxides
NRE.....nonroad engine
NSPS .....New Source Performance Standards [as contained in 40 CFR 60]
O_2 .....oxygen
PAL .....plantwide applicability limitation
Pb .....lead
$PM_{2.5}$.....particulate matter less than or equal to a nominal 2.5 microns in diameter
PM_{10} .....particulate matter less than or equal to a nominal 10 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)
PTE .....potential to emit
RICE .....reciprocating internal combustion engine
SIC. .....Standard Industrial Classification
SIP.....State Implementation Plan
SO_2 .....sulfur dioxide
tph .....tons per hour
tpy .....tons per year
VOC .....volatile organic compound [as defined in 40 CFR 51.100(s)]
VOL .....volatile organic liquid [as defined in 40 CFR 60.111b, Subpart Kb]
vol% .....volume percent
wt% .....weight percent

Section 1. Stationary Source Information

Identification

Permittee:		Hilcorp Alaska, LLC 3800 Centerpoint Dr., Suite 1400 Anchorage, AK 99503	
Stationary Source Name:		Milne Point Production Facility	
Location:		70º 27.5´ North; 149º 26.2´ West	
Physical Address:		Milne Point Unit North Slope, AK	
Owner:		Hilcorp Alaska, LLC 3800 Centerpoint Dr., Suite 1400 Anchorage, AK 99503	BP Exploration (Alaska), Inc. 900 East Benson Blvd. Anchorage, AK 99508
Operator:		Hilcorp Alaska, LLC 3800 Centerpoint Dr., Suite 1400 Anchorage, AK 99503	
Permittee's Responsible Official:		David A. Wilkins, Senior Vice President 3800 Centerpoint Dr., Suite 1400 Anchorage, AK 99503	
Designated Agent:		CT Corporation Systems 9360 Glacier Hwy., Ste. 202 Juneau, AK 99801	
Stationary Source and Building Contact:		Robert York Hilcorp Alaska, LLC (907) 777-8300	
Fee Contact:		Lincoln Steel Hilcorp Alaska, LLC (907) 777-8300	
Permit Contact:		Lincoln Steel Hilcorp Alaska, LLC (907) 777-8300	
Process Description:	SIC Code	1311 Crude Petroleum and Natural Gas	
	NAICS Code:	2111 Oil and Gas Extraction	

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

Section 2. Emissions Unit Inventory and Description

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

Table A - Emissions Unit Inventory [1]

EU ID	Tag No.	EU Description	Make and Model Or Other Identifier	Rating/Size	Fuel	Installation or Construction Date
1 [2]	PU-0701	Gas Turbine	GE LM-2500	29,000 hp (ISO)	Gas and Liquid	1985
2 [2]	PU-0801	Gas Turbine	GE LM-2500	29,000 hp (ISO)	Gas and Liquid	1985
T-1	-	Supplemental Turbine	Solar Taurus	5.2 MW	Gas	TBD
T-2	-	Supplemental Turbine	Solar Taurus	5.2 MW	Gas	TBD
T-3	-	Supplemental Turbine	Solar Taurus	5.2 MW	Gas	TBD
3	H-5302A	Heater	Zeeco	30.5 MMBtu/hr	Gas	1995
4	H-5302B	Heater	Zeeco	30.5 MMBtu/hr	Gas	1995
5	H-4510A	Heater	Latoka	14.4 MMBtu/hr	Gas	1995 [3]
6	H-4510B	Heater	Latoka	14.4 MMBtu/hr	Gas	1995 [3]
7	H-5701A	Heater	Thermoflux	29.0 MMBtu/hr	Gas and Liquid	1985
8	H-5701B	Heater	Thermoflux	29.0 MMBtu/hr	Gas and Liquid	1985
11	PU-0101A	Emergency Engine	Detroit Diesel	1,500 hp (1.5 MW)	Liquid	1985
12	PU-0101B	Emergency Engine	Detroit Diesel	1,500 hp (1.5 MW)	Liquid	1985
13	PU-0101C	Emergency Engine	Detroit Diesel	1,500 hp (1.5 MW)	Liquid	1985
14	PU-0110A	Emergency Engine	Cummins	187 hp	Liquid	1985
15	PU-0110B	Emergency Engine	Cummins	187 hp	Liquid	1985
18	Flare	Flare	National, Inc.	83 MMscf/day (Pilot/Purge: 0.34 MMscf/day)	Gas	1985

EU ID	Tag No.	EU Description	Make and Model Or Other Identifier	Rating/Size	Fuel	Installation or Construction Date
18A	Flare	Flare	Corona	83 MMscf/day (Pilot/Purge: 0.125 MMscf/day)	Gas	2004
23 [4]	T-6001 & T-6101B	Storage Tanks	Oil Reserve Tanks (two tanks)	147,000 gallons (each)	-	1985
25	-	Glycol Dehydration Unit	Glycol Dehydration Unit	-	-	Not Available

Table Notes:

[1] All units other than EU IDs 5 and 6 are located at Central Facilities Pad (CFP).

[2] Direct water injection (DWI) emission controls installed. Only used when operated on liquid fuel.

[3] This heater was originally installed at the ARCO Alaska Kuparuk River Unit West Sak Pilot Plant in 1984. It was moved from West Sak to Milne Point Unit, E-pad in 1995.

[4] Gas blanketing and back pressure relief valve.

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

Section 3. State Requirements

Visible Emissions Standard

1. Industrial Process and Fuel-Burning Equipment Visible Emissions. The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1 through 8, 11 through 15, 18, 18A, 23, 25, and T-1 through T-3 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), 50.055(a)(1), & 50.326(j)]
[40 CFR 71.6(a)(1)]

1.1. For EU IDs 3 through 6 and T-1 through T-3, burn only gas as fuel. Monitoring for these emissions units shall consist of a statement in each operating report under Condition 83 indicating whether each of these emissions units burned only gas during the period covered by the report. Report under Condition 82 if any fuel other than gas is burned.

1.2. For each of EU IDs 11 through 13, as long as the emissions unit does not exceed any threshold under 18 AAC 50.326(e), monitoring shall consist of an annual compliance certification under Condition 84 with the visible emissions standard based on reasonable inquiry. If any of EU IDs 11 through 13 exceeds any of the significant emissions thresholds, the Permittee shall include that in the operating report under Condition 83 and monitor, record, and report in accordance with Conditions 2 through 4 for the remainder of the permit term for that emissions unit.

1.3. For each of EU IDs 14 and 15, as long as the emissions unit does not exceed the limit in Condition 21, monitoring shall consist of an annual compliance certification under Condition 84 with the visible emissions standard.

1.4. For EU IDs 1, 2, 7, and 8, use only gas as primary fuel. Monitoring for these emissions units shall consist of a statement in each operating report required in Condition 83 indicating whether each of these emissions units fired gas as the primary fuel during the period covered by the report. If operation on a back-up liquid fuel occurred during the period covered by the report, the Permittee shall monitor, record and report according to Condition 12.

1.5. For EU IDs 18 and 18A, monitor, record and report in accordance with Condition 5.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3) & (c)(6)]

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

Liquid Fuel-Fired Emissions Units (EU IDs 11 through 13)

2. Visible Emissions Monitoring. When required by Condition 1.2, the Permittee shall observe the exhaust of EU IDs 11 through 13 for visible emissions using the Method 9 Plan under Condition 2.1. The Permittee may for each unit elect to continue the visible emissions monitoring schedule in effect from the previous permit at the time a renewed permit is issued, if applicable.

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

2.1. **Method 9 Plan.** For all 18-minute observations in this plan, observe exhaust, following 40 CFR 60, Appendix A-4, Method 9, adopted by reference in 18 AAC 50.040(a), for 18 minutes to obtain 72 consecutive 15-second opacity observations.

a. **First Method 9 Observation**. Except as provided in Condition 2, for EU IDs 11 through 13, observe exhaust for 18 minutes within six months after the issue date of this permit.

(i) For each existing emissions unit that exceeds the operational threshold in Condition 1.2, observe the exhaust for 18 minutes of operations within 30 days after the calendar month during which that threshold has been exceeded, or within 30 days of the unit's next scheduled operations, whichever is later.

b. **Monthly Method 9 Observations**. After the first Method 9 observation, perform 18-minute observations at least once in each calendar month that an emissions unit operates.

c. **Semiannual Method 9 Observations**. After observing emissions for three consecutive operating months under Condition 2.1.b, unless a six-minute average is greater than 15 percent and one or more observations are greater than 20 percent, perform 18-minute observations:

(i) within six months after the preceding observation, or

(ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following six months after the preceding observation.

d. **Annual Method 9 Observations**. After at least two semiannual 18-minute observations, unless a six-minute average is greater than 15 percent and one or more individual observations are greater than 20 percent, perform 18-minute observations:

(i) within twelve months after the preceding observation; or

(ii) for an emissions unit with intermittent operations, during the next scheduled operation immediately following twelve months after the preceding observation

e. **Increased Method 9 Frequency**. If a six-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more observations are greater than 20 percent, then increase or maintain the 18-minute observation frequency for that emissions unit to at least monthly intervals as described in Condition 2.1.b, until the criteria in Condition 2.1.c for semiannual monitoring are met.

3. Visible Emissions Recordkeeping. When required by Condition 1.2, the Permittee shall keep records as follows:

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

3.1. When using the Method 9 Plan of Condition 2.1,

a. the observer shall record

(i) the name of the stationary source, emissions unit and location, emissions unit type, observer's name and affiliation, and the date on the Visible Emissions Observation Form in Section 11;

(ii) the time, estimated distance to the emissions location, sun location, approximate wind direction, estimated wind speed, description of the sky condition (presence and color of clouds), plume background, and operating mode (load or fuel consumption rate or best estimate if unknown) on the sheet at the time opacity observations are initiated and completed;

(iii) the presence or absence of an attached or detached plume and the approximate distance from the emissions outlet to the point in the plume at which the observations are made;

(iv) opacity observations to the nearest five percent at 15-second intervals on the Visible Emission Observation Form in Section 11, and

(v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.

b. To determine the six-minute average opacity, divide the observations recorded on the record sheet into sets of 24 consecutive observations; sets need not be consecutive in time and in no case shall two sets overlap; for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; record the average opacity on the sheet.

c. Calculate and record the highest six-minute and 18-consecutive-minute average opacities observed.

4. Visible Emissions Reporting. When required by Condition 1.2, the Permittee shall report visible emissions as follows:

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

4.1. Include in each operating report required under Condition 83:

a. copies of the observation results (i.e. opacity observations) for each emissions unit that used the Method 9 Plan, except for the observations the Permittee has already supplied to the Department; and

b. a summary to include:

(i) number of days observations were made;

(ii) highest six- and 18-consecutive-minute average opacities observed; and

(iii) dates when one or more observed six-minute average opacities were greater than 20 percent;

c. a summary of any monitoring or recordkeeping required under Conditions 2 and 3 that was not done;

4.2. Report under Condition 82:

a. the results of Method 9 observations that exceed 20 percent average opacity for any six-minute period; and

b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.

Flares (EU IDs 18 and 18A)

5. Visible Emissions MR&R. For each of EU IDs 18 and 18A, the Permittee shall observe one daylight flare event[1] within 12 months of the preceding flare event observation. If no event exceeds 1 hour within that 12-month period, then the Permittee shall observe the next daylight flare event.

5.1. Monitor flare events using Method 9.

5.2. Record the following information for observed events:

a. the flare(s) EU ID number;

b. results of the Method 9 observations;

[1] For purposes of this permit, a "*flare event*" is flaring of gas 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.

c. reason(s) for flaring;

d. date, beginning and ending time of event; and

e. volume of gas flared.

5.3. Monitoring of a flare event may be postponed for safety or weather reasons, or because a qualified observer is not available. If monitoring of a flare event is postponed for any of the reasons described in this condition, the Permittee shall include in the next operating report required by Condition 83 an explanation of the reason the event was not monitored.

5.4. Attach copies of the records required by Condition 5.2 with the operating report required by Condition 83 for the period covered by that report.

5.5. Report under Condition 82 whenever the opacity standard in Condition 1 is exceeded.

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

Particulate Matter Emissions Standard

6. Industrial Process and Fuel-Burning Equipment Particulate Matter. The Permittee shall not cause or allow particulate matter emitted from EU IDs 1 through 8, 11 through 15, 18, 18A, 23, 25, and T-1 through T-3 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), 50.055(b)(1) & 50.326(j)]
[40 CFR 71.6(a)(1)]

6.1. For EU IDs 3 through 6 and T-1 through T-3, burn only gas as fuel. Monitoring for these emissions units shall consist of a statement in each operating report under Condition 83 indicating whether each of these emissions units fired only gas during the period covered by the report. Report under Condition 82 if any fuel other than gas is burned.

6.2. For each of EU IDs 11 through 13, monitor, record and report in accordance with Conditions 7 and 8.

6.3. For each of EU IDs 14 and 15, as long as each emissions unit does not exceed the limit in Condition 21, monitoring shall consist of an annual compliance certification under Condition 84 with the particulate matter standard.

6.4. For EU IDs 1, 2, 7, and 8, use gas as primary fuel. Monitoring for these emissions units shall consist of a statement in each operating report required in Condition 83 indicating whether each of these emissions units fired gas as the primary fuel during the period covered by the report. If operation on a back-up liquid fuel occurred during the period covered by the report, the Permittee shall monitor, record and report according to Condition 12.

6.5. For EU IDs 18 and 18A, the Permittee must annually certify compliance under Condition 84 with the particulate matter standard.

[18 AAC 50.040(j), 50.326(j) & 50.346(c)]
[40 CFR 71.6(a)(3) & (c)(6)]

Particulate Matter MR&R

Liquid Fuel-Fired Emissions Units (EU IDs 11 through 13)

7. Particulate Matter Monitoring for Diesel Engines and Liquid-Fired Turbines. The Permittee shall conduct source tests on diesel engines, EU IDs 11 through 13 and liquid fuel-fired turbines, EU IDs 1 and 2 when required by Condition 12.2, to determine the concentration of particulate matter in the exhaust of each emissions unit as follows:

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

7.1. Except as allowed in Condition 7.4, within six months of exceeding the criteria of Conditions 7.2.a or 7.2.b, either

a. conduct a particulate matter source test according to requirements set out in Section 6; or

b. make repairs so that emissions no longer exceed the criteria of Condition 7.2; to show that emissions are below those criteria, observe emissions as described in Condition 2.1 under load conditions comparable to those when the criteria were exceeded.

7.2. Conduct the test or make repairs according to Condition 7.1 if

a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or

b. for an emissions unit with an exhaust stack diameter that is less than 18 inches, 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity that is greater than 15 percent and not more than 20 percent, unless the Department has waived this requirement in writing.

7.3. During each one-hour particulate matter source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the average opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.

7.4. The automatic particulate matter source test requirements in Conditions 7.1 and 7.2 are waived for an emissions unit if a particulate matter source test on that unit has shown compliance with the particulate matter standard during this permit term.

8. Particulate Matter Reporting for Diesel Engines and Liquid-Fired Turbines. The Permittee shall report as follows:

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

8.1. Report under Condition 82:

a. the results of any particulate matter source test that exceeds the particulate matter emissions limit; or

b. if one of the criteria of Condition 7.2 was exceeded and the Permittee did not comply with either Condition 7.1.a or 7.1.b, this must be reported by the day following the day compliance with Condition 7.1 was required;

8.2. report observations in excess of the threshold of Condition 7.2.b within 30 days of the end of the month in which the observations occur;

8.3. in each operating report under Condition 83, include:

a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 7.2;

b. a summary of the results of any particulate matter testing under Condition 7; and

c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 7.2, if they were not already submitted.

9. Particulate Matter Monitoring for Liquid Fuel-Fired Boilers and Heaters. The Permittee shall conduct source tests on EU IDs 7 and 8 when required by Condition 12.2 to determine the concentration of particulate matter in the exhaust of each emissions unit as follows:

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

9.1. For EU IDs 7 and 8, except as allowed under Condition 9.3, conduct a particulate matter source test according to the requirements set out in Section 6 no later than 90 calendar days after any time corrective maintenance fails to eliminate visible emissions greater than the 20 percent opacity threshold for two or more 18-minute observations in a consecutive six-month period.

9.2. During each one-hour particulate matter source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the average opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.

9.3. The particulate matter source test requirement in Condition 9.1 is waived for an emissions unit if:

a. a particulate matter source test on that unit has shown compliance with the particulate matter standard during the permit term; or

b. take corrective action and conduct two 18-minute visible emissions observations in a consecutive six-month period to show that the excess visible emissions described in Condition 9.1 no longer occur.

10. Particulate Matter Recordkeeping for Liquid Fuel-Fired Boilers and Heaters. The Permittee shall keep records of the results of any particulate matter testing and visible emissions observations conducted under Condition 9.

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

11. Particulate Matter Reporting. The Permittee shall report as follows:

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

11.1. In each operating report required by Condition 83, include for the period covered by the report:

a. the dates, EU ID(s), and results when an 18-minute opacity observation was greater than the applicable threshold criterion in Condition 9.1.

b. a summary of the results of any particulate matter testing and visible emissions observations conducted under Condition 9.

11.2. Report as excess emissions, in accordance with Condition 82, any time the results of a source test for particulate matter exceed the particulate matter emission limit stated in Condition 6.

Dual Fuel-Fired Emissions Units (EU IDs 1, 2, 7, and 8)

12. The Permittee shall monitor, record, and report the monthly hours of operation when operating on a back-up liquid fuel.

12.1. For any of EU IDs 1, 2, 7, and 8 that does not exceed 400 hours of operations per calendar year on a back-up liquid fuel, monitoring of compliance for visible emissions and particulate matter standards shall consist of an annual certification under Condition 84.

12.2. For any of EU IDs 1, 2, 7, and 8, notify the Department and begin monitoring the affected emissions unit according to Condition 12.3 no later than 15 days after the end of a calendar month in which the cumulative hours of operation for the calendar year exceed any multiple of 400 hours on a back-up liquid fuel. If the observation exceeds the limit in Condition 1, monitor as described in Condition 7 or 9, as applicable by the type of emissions unit. If the observation does not exceed the limit in Condition 1, no additional monitoring is required until the cumulative hours of operation exceed each subsequent multiple of 400 hours on back-up liquid fuel during a calendar year[2].

12.3. When required to do so by Condition 12.2, observe the exhaust, following 40 CFR 60, Appendix A-4 Method 9 (adopted by reference in 18 AAC 50.040(a)), for 18 minutes to obtain 72 consecutive 15-second opacity observations.

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

12.4. Keep records and report in accordance with Conditions 3, 4, 8, 9, 10, and/or 11 as applicable.

12.5. Report under Condition 82 if the Permittee fails to comply with Conditions 12.2, 12.3 or 12.4.

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

Sulfur Compound Emissions Standard

13. Sulfur Compound Emissions. The Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from EU IDs 1 through 8, 11 through 15, 18, 18A, 23, 25, and T-1 through T-3 listed in Table A to exceed 500 ppm averaged over three hours.

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

Sulfur Compound MR&R

Fuel Oil[3](EU IDs 1, 2, 7, 8, and 11 through 15)

14. Sulfur Compound Monitoring and Recordkeeping. The Permittee shall comply with the following:

14.1. The Permittee shall do one of the following for each shipment of fuel:

a. If the fuel grade requires a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount; or

b. If the fuel grade does not require a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount and

(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.

14.2. Fuel testing under Condition 14.1 must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

14.3. If a load of fuel contains greater than 0.75 percent sulfur by weight, the Permittee shall calculate SO_2 emissions in ppm using either the SO_2 material balance calculation in Section 12 or Method 19 of 40 CFR 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a).

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

[3] *Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 CFR 60.41b.

15.1. If SO_2 emissions calculated under Condition 14.3 exceed 500 ppm, the Permittee shall report under Condition 82. When reporting under this condition, include the calculation under Condition 14.3.

15.2. The Permittee shall include in the report required by Condition 83

a. a list of the fuel grades received at the stationary source during the reporting period;

b. for any grade with a maximum fuel sulfur greater than 0.5 percent sulfur, the fuel sulfur of each shipment; and

c. for fuel with a sulfur content greater than 0.75 percent, the calculated SO_2 emissions in ppm.

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

Fuel Gas (EU IDs 1 through 8, 18, 18A, and T-1 through T-3)

16. Sulfur Compound Monitoring, Recordkeeping, and Reporting. The Permittee shall

16.1. Monitor, record, and report as required by Conditions 20.1 through 20.3.

16.2. Report in accordance with Condition 82 whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 13.

[18 AAC 50.040(j), 50.326(j), & 50.346(c)]
[40 CFR 71.6(a)(3) & (c)(6)]

Preconstruction Permit [4] Requirements

Supplemental Power Installation

17. Replacement of Electric Generators: The Permittee may replace the 20 megawatt (MW) electric generators of EU IDs 1 and 2 with 32 MW electric generators.

[Condition 2, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

Ambient Air Quality Protection

18. Liquid Fuel Requirement. To protect the 3-hour, 24-hour, and annual Class II SO_2 increments, the Permittee shall combust only liquid fuel that meets the ULSD specifications (i.e., diesel fuel with a maximum sulfur content of 0.0015 percent by weight) in all liquid fuel-burning equipment listed in Table A. Monitor, record and report as follows:

[Conditions 6 & 6.1, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

[4] *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.

18.1. Obtain and keep certified receipts from the fuel suppliers that confirms that all diesel fuel combusted in the EUs listed in Condition 18 meets the specifications of ULSD.

18.2. Include a statement in each operating report required by Condition 83 that indicates whether all fuel combusted by the EUs listed in Condition 18 during the reporting period was ULSD.

18.3. Report in accordance with Condition 82 if any fuel combusted by the EUs listed in Condition 18 exceeds the sulfur content limit required by Condition 18.

[Conditions 6.1a through 6.1c, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

19. Liquid Fuel Requirement. Burn no more than 984,400 gallons of liquid fuel per 12 consecutive months at CFP, E-Pad, all EUs listed in Table A of this permit and all other liquid fuel burning equipment that may be present on the specified pads. Liquid fuel burned in motor vehicles and insignificant EUs as defined under 18 AAC 50.326(d) through (i) is excluded from the 984,400 gallon limit. Monitor, record, and report as follows:

[Condition 6.2, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

19.1. Measure the monthly total liquid fuel delivered to the facility as follows:

[Condition 6.2a, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

a. Use either liquid fuel meters installed on EU ID 1 and EU ID 2 or estimate fuel use of each turbine by using the maximum fuel rating of 1,413.9 gal/hr and the hours of operation. Liquid fuel meters used must be calibrated and certified by the manufacturers to be accurate within five percent.

b. For the other liquid fuel burning EUs, estimate the fuel use as follows:

[Conditions 6.2a(i) & (ii), Minor Permit AQ0200MSS08, 3/12/2019]

(i) For each of EU IDs 7 and 8, by using the maximum fuel rating of 211.7 gal/hr and the hours of operation.

(ii) For each of EU IDs 11 through 13, by using the maximum fuel rating of 102.7 gal/hr and the hours of operation.

(iii) For each of EU IDs 14 and 15, by using the maximum fuel rating of 9.6 gal/hr and the hours of operation.

[40 CFR 71.6(c)(6)]

19.2. Record the total liquid fuel burned in the previous 12 consecutive months.

19.3. Include copies of the records required under Condition 19.2 with the operating report required by Condition 83.

19.4. Report in accordance with Condition 82 if the total fuel consumed by the equipment listed in Condition 19 exceeds the limit in Condition 19.

[Conditions 6.2b through 6.2d, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

20. Fuel Gas Requirement. The H_2S content of the fuel gas burned in all fuel gas-fired equipment listed in Table A shall not exceed 100 parts per million by volume (ppmv) at any time.

[Condition 7, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

20.1. Determine the fuel gas H_2S content using ASTM D 4810-88, ASTM D 4913-89, Gas Producer's Association method 2377-86, or an appropriate alternative method adopted in 18 AAC 50.035(c), on a monthly basis. Make separate determinations for each EU if they have separate sources of fuel gas.

20.2. Keep records of the H_2S analyses required under Condition 20.1.

20.3. Provide in each operating report required by Condition 83, copies of the records required under Condition 20.2.

20.4. Submit a report in accordance with Condition 82 whenever the fuel gas H_2S content exceeds the limit in Condition 20.

[Conditions 7.1 through 7.4, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

21. Operating Hour Restrictions. The Permittee shall limit the 12 consecutive month total operating hours of the emissions units listed in Table B to no greater than the operating hour limits shown in Table B.

[Condition 8, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

Table B – Operating Hour Restrictions

EU ID	Operating Hour Limit
7 and 8	200 hours combined while burning liquid fuel
11, 12, and 13	900 hours combined
14 and 15	600 hours combined

[Table 2, Minor Permit AQ0200MSS08, 3/12/2019]

21.1. Maintain a daily log that includes the operating time in hours for each emissions unit listed in Table B.

21.2. On or before the 15th of each month, calculate and record the hours of operation for the previous month and the 12-month rolling hours of operation for each emission unit listed in Table B.

21.3. Include copies of the records required by Condition 21.2 with the operating report required by Condition 83.

21.4. Submit a report in accordance with Condition 82 whenever the 12-month operating hours summarized under Condition 21.2 exceed the restrictions in Table B.

[Conditions 8.1 through 8.4, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3) & 71.6(c)(6)]

22. Daily Operating Scenarios. The Permittee shall comply with the daily operating scenarios in Table C to protect the 24-hour PM-10 Class II increment.

[Condition 9, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

22.1. Operate under Scenario 1 except as provided in Condition 22.2.

22.2. Operate under Scenario 2 only if fuel gas is unavailable or during required source testing. Prorate the operation of each scenario used during each day.

22.3. Record the following:

[Conditions 9.1 through 9.3, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

a. For each emissions unit listed in Table C, maintain a daily log that includes the operating scenario and compliance data.

b. Summarize monthly the daily operating scenarios for the month.

[Conditions 9.3a & b, Minor Permit AQ0200MSS08, 3/12/2019]

22.4. Include copies of the records required by Condition 22.3.b with the operating report required by Condition 83.

22.5. Submit a report in accordance with Condition 82 for any violation of the daily operating scenarios in Table C.

[Conditions 9.4 & 9.5, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

Table C – Daily Operating Restrictions

EU ID	Scenario 1		Scenario 2	
	Fuel	Restriction	Fuel	Restriction
7	Fuel Gas	Unrestricted	Liquid Fuel	24 hours per day (hr/day) combined
8				
11	Liquid Fuel	36.0 megawatt-hours per day (MWh/day) (combined)	Liquid Fuel	36.0 MWh/day (combined)
12				
13				
14	Liquid Fuel	12 hr/day (combined)	Liquid Fuel	12 hr/day (combined)
15				

[Table 3, Minor Permit AQ0200MSS08, 3/12/2019]

23. Flare Operational Limit. For flare system EU IDs 18 and 18A, the Permittee shall comply with Condition 28 of this permit.

[Condition 10, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

24. To protect the annual Class II NO_2 increment, the Permittee shall comply with Conditions 29.1 and 29.3 of this permit.

[Condition 11, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

Heater Best Available Control Technology (BACT) Requirements

25. Heater CO and NO_X BACT Limits. The Permittee shall not cause or allow CO or NO_X emissions from EU IDs 3 through 8 to exceed the limits in Table D.

[Conditions 13, 13.1, 14, & 14.2, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

25.1. The Permittee shall conduct CO and NO_X source tests on each of EU IDs 3 through 8 no later than 5 years after the previous source test and every five years thereafter. If the emission unit is dual-fuel configured, conduct a test under each fuel type (gas and oil). Record and report results of the source tests in accordance with Section 6. In addition, express EU ID 7 and 8 fuel oil CO test results as lb/1000 gallons.

a. Substituting test data is allowed if the Permittee documents within the test plan, their intent to substitute testing for multiple heaters and if all other requirements of Conditions 43.3.b(vii)(B) through 43.3.b(vii)(C) are met, as they would apply to heaters and the limits in Table D.

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

25.2. For EU IDs 3 through 8, follow established preventative maintenance guidelines and maintain records of the maintenance completed. Retain maintenance records for five years and submit records to Department upon request.

[Conditions 13.2 & 20, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(1) & (3)]

25.3. Submit a report in accordance with Condition 82 for any exceedance of a limit in Table D.

[Conditions 14.2a, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3) & 71.6(c)(6)]

Table D – Heater BACT

Pollutant	EU ID	Emission Limit for Each Heater
CO	3 through 6	0.2 lb/MMBtu [1]
	7 and 8	0.2 lb/MMBtu [1] (when firing gas fuel)
NO_X	3 and 4	0.05 lb/MMBtu [1]
	5 and 6	0.08 lb/MMBtu [1]
	7 and 8	0.08 lb/MMBtu [1] (when firing gas fuel)
		11.3 lb/hr (while firing liquid fuel)

Table Notes:

[1] Higher heating value basis.

[Table 4, Minor Permit AQ0200MSS08, 3/12/2019]

Turbine BACT and PSD Avoidance Limits

26. The Permittee shall not cause or allow EU IDs 1 and 2 to exceed the limits in Table E.

[Conditions 12, 14, 14.1, 18, 19, & 22, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

Table E – Turbine BACT and PSD Avoidance Limits

EU ID	Pollutant	BACT Emissions Limit (each turbine)	PSD Avoidance Limit
1 and 2 and T-1 through T-3 as applicable	CO	70 lb/hr	94.4 tpy, each
	NO_X	184 ppmvd [1]	625 tpy, combined
	PM-10	No Limit	28 tpy, combined

Table Notes:

[1] Corrected to 15 percent O_2 and ISO conditions.

26.1. For the CO BACT limit:

a. Monitor the CO emissions rate as indicated in Condition 26.6.

b. Submit a report in accordance with Condition 82 for any violations of the CO hourly BACT limit in Table E.

[Conditions 12.1 & 12.2, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

26.2. For the CO PSD avoidance limit:

a. Calculate monthly CO emissions in tons per month for the previous calendar month using Equation 1.

Equation 1 $$EM = ER \times HR \times \frac{ton}{2{,}000\ lbs}$$

Where:

EM	=	Emissions (tons/month)
ER	=	Average hourly emission rate for the previous month from Condition 26.6 (lbs/hr)
HR	=	Hours of operation for the previous calendar month (hrs/month)

b. Calculate and record the 12-month rolling total CO emissions for both turbines by adding the total CO emissions for the prior calendar month to the monthly totals for the previous 11 months.

c. Report in accordance with Condition 82 if the total CO emissions calculated under Condition 26.2.b exceed the emission limit in Table E.

d. Attach a summary of the monthly CO emissions calculated under Condition 26.2.a and the combined 12 month rolling total calculated under Condition 26.2.b to the report required by Condition 83.

[Conditions 19.1 through 19.4, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

26.3. For EU IDs 1 and 2, the Permittee shall comply with the NO_X BACT limit as follows:

[Condition 14.1, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

a. Except during Direct Water Injection (DWI) start-up, emergency fuel transfer, emergency prorations, and other emergencies, use DWI at all times when operating the turbines on liquid fuel at a load above 9,500 kW. During DWI start-up, emergency fuel transfer, emergency prorations, and other emergencies, the Permittee shall operate no more than two hours per turbine per incident without DWI[5]. For the purpose of this condition, an emergency is a sudden and reasonably unforeseeable event beyond the control of the Permittee, that requires immediate corrective action to restore normal operation.

[5] DWI start-up on liquid fuel begins upon the turbine reaching 9,500 kW.

b. If not using DWI and burning fuel gas, operate at no greater than 21,371 kilowatts (kW) generator output, each.

c. If using DWI, restrict load to the maximum at which compliance was demonstrated for fuel gas or liquid fuel during any source test required under Conditions 26.8.a(i)(B) and 26.8.a(i)(C).

d. During scheduled maintenance of the AquaChem water treatment system, operate for no more than two hours without DWI when burning liquid fuel in the turbine(s).

e. When not using DWI and burning liquid fuel; except for DWI start-up periods, emergency fuel transfer, emergency prorations, and other emergencies; operate at no greater than 8,166 kW (generator output) each.

[Conditions 14.1a through 14.1d & 14.1i, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(c)(6)]

26.4. For the NO_X BACT limit:

a. Monitor, record, and report in accordance with Conditions 43.3 through 43.5.

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

b. Keep records of NO_X source tests conducted on EU IDs 1 and 2.

c. Once per hour record the load in kW and whether DWI was used.

d. Report in accordance with Condition 82 for any violation of operating load limits in Conditions 26.3.b, 26.3.c, and 26.3.e and any violation of the NO_X emission rate limit in Table E.

e. Include copies of the records required by Condition 26.4.c with the operating report required by Condition 83.

[Conditions 14.1e through 14.1h, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

26.5. For the NO_X PSD avoidance limit:

a. Limit operating load and/or use DWI technology on EU IDs 1 and 2 per Conditions 26.3.b and 26.3.c.

b. Calculate monthly the NO_X emissions in tons per month for the previous calendar month using Equation 1.

c. Calculate and record the combined 12-month rolling total NO_X emissions for EU IDs 1 and 2 by adding the combined total NO_X emissions for the prior calendar month to the monthly totals for the preceding eleven months.

d. Report in accordance with Condition 82 if the total NO_X emissions calculated under Condition 26.5.c exceed the emission limit in Table E.

e. Attach a summary of the monthly NO_X emissions calculated under Condition 26.5.b and the combined 12 month rolling total calculated under Condition 26.5.c to the report required by Condition 83.

[Conditions 18.1 through 18.5, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

NOx and CO Source Testing and Monitoring Requirements

26.6. **Turbine NO_X and CO Monitoring Requirements:** The Permittee shall monitor process parameters hourly and calculate NO_X and CO in lb/hr at least once per month for EU IDs 1 and 2 in accordance with Condition 26.6.a or 26.6.b:

[Condition 23, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

a. Use the best fit correlation most recently approved by the Department under Condition 26.7; and

[Condition 23.1, Minor Permit AQ0200MSS08, 3/12/2019]

(i) Revise a correlation based on results of any relative accuracy (RA) source test required by Condition 26.8. Submit the revisions for Department approval in accordance with Condition 26.7.

(ii) If results of two consecutive RA tests performed under Condition 26.8 for the Department-approved correlation exceed the limits in Condition 26.6.a(ii)(A) or 26.6.a(ii)(B), install and use a continuous emission monitoring system (CEMS) as described in Condition 26.9 no later than 120 days after submitting the report for the second failing test. The RA shall not exceed:

[Condition 23.1a & 23.1b, Minor Permit AQ0200MSS08, 3/12/2019]

(A) 20 percent when the Reference Method (RM) value is used in the denominator of the RA equation in 40 CFR 60, Appendix B, Performance Specification 2, Section 12, Equation 2-6 (average emissions during test are greater than 50 percent of the emission standard); or

(B) 10 percent when the applicable emission standard is used in the denominator of the RA equation in 40 CFR 60, Appendix B, Performance Specification 2, Section 12, Equation 2-6 (average emissions during test are less than 50 percent of the emission standard).

[Condition 23.1b(i) & 23.1b(ii), Minor Permit AQ0200MSS08, 3/12/2019]

b. Use a CEMS as described in Condition 26.9.

[Condition 23.2, Minor Permit AQ0200MSS08, 3/12/2019]

26.7. **Best-Fit Correlation for NO_X and CO:** Submit to the Department for written approval, a report that describes any changes to the best-fit correlations between the emission rates for NO_X and CO from completed source tests and turbine process parameters. Include:

[Condition 24, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

a. the methodology, assumptions, analysis with sample calculations, supporting notes, a list of all process parameters used in the correlations and an analysis of their statistical relevance for their correlation (i.e an r^2 analysis of curve fit); and

b. quality assurance procedures for the process parameters used in the developing the correlation between the emission rates and the completed source tests.

[Condition 24.1 & 24.2, Minor Permit AQ0200MSS08, 3/12/2019]

26.8. **Relative Accuracy (RA) Test Procedures for NO_X and CO:** The Permittee shall determine the RA of all correlations approved under Condition 26.7 as follows:

[Condition 25, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

a. Once every two calendar years, conduct Reference Method (RM) tests for NO_X and CO as follows:

[Condition 25.1, Minor Permit AQ0200MSS08, 3/12/2019]

(i) Conduct a minimum of three test runs using the required method(s) in Condition 70 at each of three loads (high, medium, and low) on one of either EU IDs 1 or 2 for each of the scenarios in Conditions 26.8.a(i)(A), 26.8.a(i)(B), and 26.8.a(i)(C). Alternate each two year test between EU IDs 1 and 2 except as otherwise approved in writing by the Department.

[Condition 25.1a, Minor Permit AQ0200MSS08, 3/12/2019]

(A) Fuel gas without DWI;

(B) fuel gas with DWI; and

(C) liquid fuel with DWI.

[Condition 25.1a(i) & 25.1a(iii), Minor Permit AQ0200MSS08, 3/12/2019]

(ii) Record each statistically relevant process parameter during each RM source test no less than once every 15 minutes. Mark the beginning and end of each RM source test on the output record.

(iii) Record the NO_X and CO emission concentrations in ppmv for each RM source test period ("RM value") of the operating scenarios in Condition 26.8.a(i).

(iv) Determine the integrated average NO_X and CO emission rates in lb/hr for each RM test period using the best fit correlations approved by the Department under Condition 26.7.

[Condition 25.1b through 25.1d, Minor Permit AQ0200MSS08, 3/12/2019]

b. Calculate the RA of a correlation compared to a RM test as follows:

[Condition 25.2, Minor Permit AQ0200MSS08, 3/12/2019]

(i) If the RM has an instrumental or integrated non-instrumental sampling technique, make a direct comparison of the RM value and the correlation value.

(ii) If the RM has grab sampling technique, first average the results from all grab samples taken during the test run and then compare this average with the value obtained from the correlation obtained during the run.

(iii) Using the procedures in 40 CFR 60, Appendix B, Performance Specification 2, Section 12 and summarizing the results on a data sheet similar to that shown in Section 18, calculate the:

[Condition 25.2a through 25.2c, Minor Permit AQ0200MSS08, 3/12/2019]

(A) Arithmetic mean of the difference between the “RM value” and the “correlation value”;

(B) Standard deviation;

(C) Confidence coefficient; and

(D) RA.

[Condition 25.2c(i) through 25.2c(iv), Minor Permit AQ0200MSS08, 3/12/2019]

c. For turbine operation with a wet combustion liner, if an RA verification of any correlation is greater than the allowable limits in Condition 26.6.a(ii), the Permittee must commence annual RA testing until five consecutive RA tests demonstrate compliance with the limits, then biennial testing may resume.

(i) The Permittee shall apply for and obtain a significant modification to this permit to revise the monitoring requirements of this condition prior to operation with a dry combustion liner.

d. Include with the operating report required under Condition 83, copies of the results of all RM tests (including any rejected test results) conducted under Condition 26.8.a.

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

26.9. **CEMS:** Unless required by Condition 26.6.a(ii) the Permittee may choose to install a CEMS instead of using the best fit correlation. The Permittee must install, calibrate, and conduct applicable continuous monitoring system performance test listed in 40 CFR 60, Appendix B, revised as of October 8, 2009 and certify test results; operate, and maintain air pollutant emissions and process monitoring equipment on the emission units as described herein. Submit monitoring equipment, siting, operation, maintenance plans, and procedures for approval by the Department.

[Condition 26, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

a. Comply with each applicable monitoring system requirement, as listed in 40 CFR 60, Appendix F (Performance Specification 2), and the *EPA Quality Assurance Handbook for Air Pollution Measurements Systems, EPA/600 R-94/038b*.

b. Attach to the operating report required by Condition 83:

[Condition 26.1 & 26.2, Minor Permit AQ0200MSS08, 3/12/2019]

(i) A copy of each quarterly report of CEMS data assessment report for Quality Assurance Procedures conducted in accordance with 40 CFR 60, Appendix F, and

(ii) A copy of each quarterly monitoring systems performance report in accordance with 40 CFR 60.7.

[Condition 26.2a & 26.2b, Minor Permit AQ0200MSS08, 3/12/2019]

26.10. For the PM-10 PSD avoidance limit:

a. Maintain fuel flow meters on EU IDs 1 and 2 to measure fuel gas and liquid fuel usage. Maintain copies of documentation showing that the meters were calibrated to an accuracy of plus or minus five percent.

b. Calculate PM-10 emissions from fuel gas usage with Equation 2.

[Conditions 22.1 & 22.2, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

Equation 2 $$E_{NG} = EF \times F \times \frac{0.0005\ tons}{lb}$$

Where:

E_{NG} = PM-10 emissions from fuel gas in tons per year (tpy)

EF = PM-10 emission factor in lb/MMscf as described in Condition 26.10.b(i)

F = 12-month fuel gas usage in MMscf/yr using the fuel usage measured under Condition 26.10.a. For any time periods during which the emissions unit is operational and the fuel consumption records are missing or incorrect, estimate fuel consumption based on design firing rate of the emissions unit.

(i) Determine the emission factor to be used in Condition 26.10.b as follows:

[Condition 22.2a, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

(A) Until a source test is required by Condition 26.10.d, use an initial emission factor of 6.93 lb/MMscf;

(B) Once a source test required by Condition 26.10.d has been conducted, use the PM-10 emission factor for fuel gas from the source test.

[Conditions 22.2a(i) & 22.2a(ii), Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

c. Calculate 12-month PM-10 emissions from liquid fuel usage with Equation 3:

[Condition 22.3, Minor Permit AQ0200MSS04, Rev 3, November 18, 2014]
[40 CFR 71.6(a)(3)]

Equation 3 $E_D = EF \times F \times HV \times \frac{0.0005\ tons}{lb}$

Where:

E_D = 12-month PM-10 emissions from liquid fuel combustion in tpy

EF = PM-10 emission factor in lb/MMBtu, as described in Condition 26.10.c(i)

F = 12 consecutive month fuel usage using readings taken in Condition 19.2. For any time periods during which the emissions unit is operational and the fuel consumption records are missing or incorrect, estimate fuel consumption based on design firing rate of the emissions unit.

HV = 135,000 Btu/gal, high heating value (HHV) of liquid fuel.

(i) Determine the emission factor to be used in Condition 26.10.c as follows:

[Condition 22.3a, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

(A) Until a source test is required by Condition 26.10.d, use an initial emission factor of 0.012 lb/MMBtu;

(B) Once a source test required by Condition 26.10.d has been conducted, use the PM-10 emission factor for liquid fuel, based on HHV, from the source test.

[Conditions 22.3a(i) & 22.3a(ii), Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

d. Calculate and record monthly the 12-month total PM-10 emissions for the turbines by adding emissions from Conditions 26.10.b and 26.10.c.

[Condition 22.4, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

(i) The first time the 12-month total in Condition 26.10.d exceeds 26 tons, determine the PM-10 emission factors for the turbines, in lb/MMscf, for fuel gas firing with and without DWI, and in lb/MMBtu (based on HHV) for liquid fuel firing with DWI, by conducting source tests in accordance with Section 6. Consider the end of the month that resulted in the 12 month total exceeding 26 tons as the date of the Department's request for a source test under Condition 68 (Requested Source Tests); and

(ii) If the 12-month total from Condition 26.10.d exceeds 28 tons, report in accordance with Condition 82.

[Conditions 22.4a & 22.4b, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

e. Attach a summary of the 12-month PM-10 emissions totals to the operating report required by Condition 83. Keep records documenting the emission calculations.

[Condition 22.5, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

Tank BACT Requirements

27. Volatile Organic Compounds (VOC) BACT Limits for Oil Reserve Tanks (EU ID 23): The Permittee shall comply with the VOC BACT limits for the vents as follows:

[Condition 15, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

27.1. Provide a gas blanketing and back pressure relief valve for EU ID 23.

[Condition 15.1, Minor Permit AQ0200MSS08, 3/12/2019]

ORLs to Avoid PSD Modification, Minor Permit Requirements, and HAP Major Source Classification

28. Flare Operational Limit: For Flare System EU IDs 18 and 18A:

[Condition 16, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

28.1. Limit combined flare gas combustion from EU IDs 18 and 18A to no greater than 83 million standard cubic feet per day (MMscf/day);

28.2. Do not flare gas through EU ID 18 concurrently with EU ID 18A, except during flare system shutdown or startup. Limit concurrent operations to no greater than 72 hours during each flare system shutdown or startup; and

28.3. Maintain a log on-site and record which flare is in service at any given time. Note in the log any operational considerations, including dates of concurrent operations, dates of changeover from one flare to the other, or dates of flaring greater than 44 MMscf/day.

[Conditions 16.1 through 16.3, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

28.4. The Permittee shall provide copies of the log kept in Condition 28.3 in the operating report required by Condition 83.

28.5. Report in accordance with Condition 82 whenever a limit in Condition 28.1 or 28.2 is exceeded.

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

29. Operation of Supplemental Combustion Turbines: For the supplemental combustion turbines (EU IDs T-1 through T-3):

[Condition 17, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

29.1. To avoid a minor permit under 18 AAC 50.502(c)(3) for NO_X, limit the concurrent operation of one or more of the supplemental turbines with both EU IDs 1 and 2 to no more than 1,000 hours during any 12 consecutive month period.

[Condition 17.1, Minor Permit AQ0200MSS08, 3/12/2019]

a. Monitor and record concurrent operations of each supplemental turbine with both EU IDs 1 and 2.

b. Report in accordance with Condition 82 if the concurrent operations exceed the limit in Condition 29.1.

[Conditions 17.1a & 17.1b, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

29.2. Operate each supplemental turbine on fuel gas only.

[Condition 17.2, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(1)]

29.3. For any interval during which a supplemental turbine replaces EU ID 1 or 2, include the supplemental turbine emissions in the annual emission limits for NO_X and CO in Table E.

[Condition 17.3, Minor Permit AQ0200MSS08, 3/12/2019]
[40 CFR 71.6(a)(3)]

a. Monitor and record hours of operation for each supplemental turbine.

b. Calculate NO_X and CO emissions in tons per month from each supplemental turbine using the hours of operation recorded in Condition 29.3.a and the emission factors 6.1 pounds of NO_X per hour and 7.5 pounds of CO per hour. Add the cumulative monthly supplemental turbine emissions to that of the out-of-service EU ID 1 or 2 for determining compliance with the 12-month rolling NO_X and CO emissions caps in Table E.

[Conditions 17.3a & 17.3b, Minor Permit AQ0200MSS08, 3/12/2019]

30. The Permittee shall emit no more than five pounds of CO per 1,000 gallons of fuel combusted by each of EU IDs 7 and 8 when firing liquid fuel. Follow established preventative maintenance guidelines and maintain records of maintenance completed. Retain maintenance records for five years and submit the records to Department upon request.

[Condition 20, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1) & (3)]

31. **SO_2 Requirements:** Comply with the fuel sulfur limits, monitoring, recordkeeping, and reporting set out in Conditions 18 and 20.

[Condition 21, Minor Permit AQ0200MSS08, 3/12/2019]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1) & (3)]

32. **Operation of Closed Vent System.** The Permittee shall operate the closed vent system for EU ID 25 whenever EU ID 25 is operating to recycle the vent scrubber hydrocarbons back into the third stage compression for recovery.

[Condition 26, Operating Permit AQ0200TVP01, April 14, 2003]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

32.1. Monitor and record the monthly and year-to-date operating time of the closed vent system and EU ID 25.

32.2. Include with the stationary source operating report required by Condition 83, copies of the records required by Condition 32.1.

32.3. Report in accordance with Condition 82 for any period of time that EU ID 25 operates without the closed vent system operating.

[Conditions 26.1 through 26.2, Operating Permit AQ0200TVP01, April 14, 2003]
[40 CFR 71.6(a)(3) & 71.6(c)(6)]

Insignificant Emissions Units

33. 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:

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

[18 AAC 50.055(a)(1)]

33.2. **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)]

33.3. **Sulfur Standard**: The Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c)]

33.4. General MR&R for Insignificant Emissions Units.

a. The Permittee shall submit the compliance certifications of Condition 84 based on reasonable inquiry;

b. The Permittee shall comply with the requirements of Condition 65;

c. The Permittee shall report in the operating report required by Condition 83 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 become greater than any of those thresholds; and

d. No other monitoring, recordkeeping or reporting is required.

[18 AAC 50.346(b)(4)]

Section 4. Federal Requirements

40 CFR Part 60 New Source Performance Standards

Subpart A

34. New Source Performance Standards (NSPS) Subpart A Notification. For any affected facility[6] or existing facility[7] regulated under NSPS requirements in 40 CFR 60, the Permittee shall furnish the Administrator[8] 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 CFR 60.7(a) & 60.15(d), Subpart A]

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

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

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

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

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

a. information describing the precise nature of the change,

b. present and proposed emission control systems,

c. productive capacity of the facility before and after the change, and

d. the expected completion date of the change.

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

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

[40 CFR 60.15(d), Subpart A]

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

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

[8] For this section of this permit, the Department defines the "the Administrator" to mean the EPA Administrator and the Department.

a. the name and address of owner or operator,

b. the location of the existing facility,

c. a brief description of the existing facility and the components that are to be replaced,

d. a description of the existing and proposed air pollution control equipment,

e. an estimate of the fixed capital cost of the replacements, and of constructing a comparable entirely new facility,

f. the estimated life of the existing facility after the replacements, and

g. a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

35. 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 CFR 60.7(b), Subpart A]

36. NSPS Subpart A Excess Emissions and Monitoring Systems Performance Report. Each Permittee required to install a continuous monitoring device shall submit excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts and limits are in Conditions 43.6) and-or summary report form (see Condition 37) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or 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 CFR 60.7(c), Subpart A]

36.1. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, 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 CFR 60.7(c)(1), Subpart A]

36.2. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of EU IDs 1 and 2; the nature and cause of any malfunction (if known), and the corrective action taken or preventative measures adopted.

[40 CFR 60.7(c)(2), Subpart A]

36.3. When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

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

37. NSPS Subpart A Summary Report Form. The summary report form shall contain the information and be in the format shown in figure 1 of 40 CFR 60.7 (see Attachment 1) unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

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

37.1. If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in Condition 36 need not be submitted unless requested by the Administrator.

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

37.2. If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in Condition 36 shall both be submitted.

[40 CFR 60.7(d)(2), Subpart A]

38. NSPS Subpart A Performance (Source) Tests. The Permittee shall conduct source tests according to Section 6 and as required in this condition on any affected facility.

[18 AAC 50.040(a)(1)]

38.1. Except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of 40 CFR 60.8, at such times as may be required by the Administrator, the Permittee shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).

[40 CFR 60.8(a), Subpart A]

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

[40 CFR 60.8(b), Subpart A]

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

[40 CFR 60.8(c), Subpart A]

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

[40 CFR 60.8(d), Subpart A]

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

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

b. Safe sampling platform(s),

c. Safe access to sampling platform(s), and

d. Utilities for sampling and testing equipment.

[40 CFR 60.8(e), Subpart A]

38.6. Unless otherwise specified in the applicable subpart of 40 CFR 60, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

[40 CFR 60.8(f), Subpart A]

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

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

40. 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 43.1 or 43.6, nothing in 40 CFR Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU ID 1 or 2 would have been in compliance with applicable requirements of 40 CFR Part 60 if the appropriate performance or compliance test or procedure had been performed.

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

41. 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 43.1 or 43.6. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged to the atmosphere.

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

Subpart Dc

42. NSPS Subpart Dc Applicability. For EU IDs 3 and 4 listed in Table A, the Permittee shall comply with the following applicable requirements of NSPS Subpart Dc.

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

NSPS Subpart Dc Recordkeeping Requirements

42.1. The owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each calendar month.

[40 CFR 60.48c(g)(1) & (2), Subpart Dc]
[40 CFR 71.6(a)(3)]

Subpart GG

43. NSPS Subpart GG Applicability. For EU IDs 1 and 2 listed in Table A, the Permittee shall comply with the following applicable requirements of NSPS Subpart GG for stationary gas turbines 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), 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 60.330(a), Subpart GG]

43.1. **NO_X Standard.** The Permittee shall not allow the exhaust gas concentration of NO_X to exceed 215 ppmvd at 15 percent O_2, ISO corrected, for EU IDs 1 and 2.

[40 CFR 60.332(a), 60.332(a)(2), & 60.332(d); Subpart GG]
[40 CFR 71.6(a)(1)]

43.2. Stationary gas turbines are exempt from Condition 43.1 when being fired with an emergency fuel[9].

[40 CFR 60.332(k), Subpart GG]

43.3. **NO_X Monitoring.** The Permittee shall comply with the following:

[40 CFR 71.6(a)(3)]

a. For EU IDs 1 and 2, NO_X source testing shall be conducted at the frequency specified in Condition 26.8.a.

b. For NO_X source tests for EU IDs 1 and 2,

(i) The owner or operator shall conduct the performance tests using either EPA Method 20, ASTM D6522-00 (incorporated by reference, see §60.17), or EPA Method 7E and either EPA Method 3 or 3A in appendix A to this part, to determine NO_X and diluent concentration.

[40 CFR 60.335(a)(1) through (3), Subpart GG]

[9] *Emergency fuel* is a fuel fired by a gas turbine only during circumstances, such as natural gas supply curtailment or breakdown of delivery system, that make it impossible to fire natural gas in the gas turbine.

(ii) Sampling traverse points are to be selected following Method 20 or Method 1, (non-particulate procedures) and sampled for equal time intervals. The sampling shall be performed with a traversing single-hole probe or, if feasible, with a stationary multi-hole probe that samples each of the points sequentially. Alternatively, a multi-hole probe designed and documented to sample equal volumes from each hole may be used to sample simultaneously at the required points.

[40 CFR 60.335(a)(4), Subpart GG]

(iii) Notwithstanding Condition 43.3.b(ii), the owner or operator may test at fewer points than are specified in Method 1 or Method 20 if the conditions of 40 CFR 60.335(a)(5)(i) and (ii) are met.

[40 CFR 60.335(a)(5), Subpart GG]

(iv) Other acceptable alternative reference methods and procedures are given in 40 CFR 60.335(c).

[40 CFR 60.335(a)(6), Subpart GG]

(v) Each test run required under Condition 43.3.b(vi) shall be at least 21 minutes.

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

(vi) The owner or operator shall determine compliance with the applicable nitrogen oxides emission limitation in Condition 43.1 and shall meet the performance test requirements of 40 CFR 60.8 as follows:

[40 CFR 60.335(b), Subpart GG]

(A) For each run of the performance test, the mean nitrogen oxides emission concentration (NO_{Xo}) corrected to 15 percent O_2 shall be corrected to ISO standard conditions using the equation in 40 CFR 60.335(b)(1).

[40 CFR 60.335(b)(1), Subpart GG]

(B) The 3-run performance test required must be performed within 5 percent at 30, 50, 75, and 90-to-100 percent of peak load or at four evenly-spaced load points in the normal operating range of the gas turbine, including the minimum point in the operating range and 90-to-100 percent of peak load, or at the highest achievable load point if 90-to-100 percent of peak load cannot be physically achieved in practice. If the turbine combusts both oil and gas as primary or backup fuels, separate performance testing is required for each fuel. Notwithstanding these requirements, performance testing is not required for any emergency fuel (as defined in 40 CFR 60.331).

[40 CFR 60.335(b)(2), Subpart GG]

(vii) **Substituting Test Data.** The Permittee may use a source test completed under Condition 43.3.a performed on only one of EU IDs 1 or 2 to satisfy the requirements of that condition for the other turbine in the group if

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

(A) the Permittee demonstrates that test results are less than or equal to 90 percent of the emission limit of Condition 43.1 and are projected under Condition 43.3.b(viii) to be less than or equal to 90 percent of the limit at maximum load;

(B) the Permittee identifies in a source test plan under Condition 74

(1) the turbine to be tested;

(2) the other turbine in the group that is to be represented by the test; and

(3) why the turbine to be tested is representative, including that each turbine in the group

i. is located at a stationary source operated and maintained by the Permittee;

ii. operates under close to identical ambient conditions as the tested unit;

iii. is the same make and model and has identical injectors and combustor;

iv. uses the same fuel type from the same supply origin.

(C) The Permittee may not use substitute test results to represent emissions from EU ID 1 or 2 if that turbine is operating at greater than 90 percent of the emission limit of Condition 43.1.

(viii) **Load.** 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) In the source test plan state whether or not the test is scheduled when maximum NO_X emissions are expected.

(B) If the highest operating rate during the source test is less than the maximum load of the tested turbine or another turbine represented by the test data, for each such turbine the Permittee shall provide to the Department as an attachment to the source test report

(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 43.3.b to predict the highest load at which emissions will comply with the limit in Condition 43.1.

(C) 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 limit of Condition 43.1;

(D) 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 assured is 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

(E) the Permittee may revise a load limit by submitting results of a more recent test done at a higher load, and, if necessary, the accompanying information and demonstration described in Condition 43.3.b(viii)(B); the new limit is subject to any new Department finding under Condition 43.3.b(viii)(D).

(F) In order to perform an emission test required by Conditions 57.2.a and 57.2.b, the Permittee may operate a turbine at a higher load than that prescribed by Conditions 43.3.b(viii)(B) through 43.3.b(viii)(D).

(G) For the purposes of Conditions 43.3 through 43.5, maximum load means the hourly average load that is the smallest of

(1) 100 percent of manufacturer's design capacity of the gas turbine at ISO standard day conditions;

(2) the highest load allowed by an enforceable condition that applies to the turbine; or

(3) the highest load possible considering permanent physical restraints on the turbine or the equipment which it powers.

43.4. **NOx 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)]

a. The Permittee shall comply with the following for each turbine for which a demonstration under Conditions 43.3.b(viii)(B) through 43.3.b(viii)(E) does not show compliance with the limit of Condition 43.1 or the NOx BACT limit in Table E 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 43.4.a shall be hourly or otherwise as approved by the Department.

(iii) Within one month after submitting a demonstration under Condition 43.3.b(viii)(B)(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 43.3.b(viii)(D), whichever is earlier, the Permittee shall propose to the Department how they will measure load or load surrogates, 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.

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

43.5. **NOx 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)]

a. In each operating report under Condition 83 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 Conditions 43.3.b(viii)(B) through 43.3.b(viii)(E)

(i) the load limit;

(ii) the turbine identification; and

(iii) the highest load recorded under Condition 43.4.a during the period covered by the operating report.

b. The Permittee shall report under Condition 82 if

(i) a test result exceeds the emission standard;

(ii) testing required under Condition 43.3.b is not performed, or

(iii) a turbine was operated at a load exceeding that allowed by Conditions 43.3.b(viii)(C) and 43.3.b(viii)(D); exceeding a load limit is deemed a single violation rather than multiple violations of both monitoring and the underlying emission limit.

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

c. Each period during which an exemption provided in Condition 43.2 is in effect shall be included in the report required in Condition 36. For each period, the type, reasons, and duration of the firing of the emergency fuel shall be reported.

[40 CFR 60.334(j)(4), Subpart GG]

43.6. **SO_2 Standard.** No owner or operator subject to the provisions of NSPS Subpart GG shall burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw).

[40 CFR 60.333(b), Subpart GG]
[40 CFR 71.6(a)(1)]

43.7. **SO_2 MR&R.** The Permittee shall comply with the following:

a. Monitor the total sulfur content of the fuel being fired in the turbine, except as provided in Condition 43.7.b. The sulfur content of the fuel must be determined using total sulfur methods described in Condition 43.8.a. 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), ASTM D4084-82, 94, D5504-01, D6228-98, or Gas Processors Association Standard 2377-86 (all of which are incorporated by reference-see 40 CFR 60.17), which measure the major sulfur compounds may be used.

[40 CFR 60.334(h)(1), Subpart GG]
[40 CFR 71.6(a)(3)]

b. Notwithstanding the provisions of Condition 43.7.a, the owner or operator 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 CFR 60.331(u), regardless of whether an existing custom schedule approved by the administrator for Subpart GG requires such monitoring. The owner or operator shall use one of the following sources of information to make the required demonstration:

[40 CFR 60.334(h)(3), Subpart GG]
[40 CFR 71.6(a)(3)]

(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

(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 section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR 75 is required.

[40 CFR 60.334(h)(3)(i) & (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 owner or operator may, without submitting a special petition to the Administrator, continue monitoring on this schedule.

[40 CFR 60.334(h)(4), Subpart GG]
[40 CFR 71.6(a)(3)]

d. The frequency of determining the sulfur content of the fuel shall be as follows:

[40 CFR 60.334(i), Subpart GG]
[40 CFR 71.6(a)(3)]

(i) **Fuel oil.** For fuel oil, use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to 40 CFR 75 (i.e., flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank).

(ii) **Gaseous fuel.** For owners and operators that elect not to demonstrate sulfur content using options in Condition 43.7.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 once per unit operating day.

(iii) **Custom schedules.** Notwithstanding the requirements of Condition 43.7.d(ii), operators 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 CFR 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 43.6.

[40 CFR 60.334(i)(1) through (3), Subpart GG]

(A) The two custom sulfur monitoring schedules set forth in 40 CFR 60.334(i)(3)(i)(A) through (D) and in 40 CFR 60.334(i)(3)(ii) are acceptable, without prior Administrative approval.

[40 CFR 60.334(i)(3)(i), Subpart GG]

e. For each affected unit that elects to periodically determine the fuel sulfur content under NSPS Subpart GG, the owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with Condition 36. Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under Condition 36, periods of excess emissions and monitor downtime that shall be reported are defined as follows:

[40 CFR 60.334(j), Subpart GG]
[40 CFR 71.6(a)(3)]

(i) Sulfur dioxide. If the owner or operator is required to monitor the sulfur content of the fuel under Condition 43.7:

[40 CFR 60.334(j)(2), Subpart GG]

(A) For samples of gaseous fuel and for oil samples 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.

(B) If the option to sample each delivery of fuel oil has been selected, the owner or operator shall immediately switch to one of the other oil sampling options (i.e., daily sampling, flow proportional sampling, or sampling from the unit's storage tank) if the sulfur content of a delivery exceeds 0.8 weight percent. The owner or operator shall continue to use one of the other sampling options until all of the oil from the delivery has been combusted, and shall evaluate excess emissions according to Condition 43.7.e(i)(A). When all of the fuel from the delivery has been burned, the owner or operator may resume using the as-delivered sampling option.

(C) 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 CFR 60.334(j)(2)(i) through (iii), Subpart GG]

43.8. **Test methods and procedures.** The Permittee shall comply with the following:

a. If the owner or operator is required under Conditions 43.7.d(i) through 43.7.d(iii) to periodically determine the sulfur content of the fuel combusted in the turbine, analyze the samples for the total sulfur content of the fuel using:

[40 CFR 60.335(b)(10), Subpart GG]
[40 CFR 71.6(a)(3)]

(i) For liquid fuels, ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01 (all of which are incorporated by reference, see 40 CFR 60.17); or

(ii) For gaseous fuels, 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 CFR 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 CFR 60.335(b)(10)(i) & (ii), Subpart GG]

b. The fuel analyses required under Condition 43.8.a may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

[40 CFR 60.335(b)(11), Subpart GG]
[40 CFR 71.6(a)(3)]

40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

Subparts A & M

44. The Permittee shall comply with the applicable requirements set forth in 40 CFR 61.145 and 61.150 of Subpart M, and the applicable sections set forth in 40 CFR 61, Subpart A and Appendix A.

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

40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants

Subpart A

45. For EU IDs 11 through 15, the Permittee shall comply with the applicable requirements of 40 CFR 63 Subpart A in accordance with the provisions for applicability of Subpart A in Table 8 to NESHAP Subpart ZZZZ.

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

Subpart ZZZZ

46. NESHAP Subpart ZZZZ Applicability. For EU IDs 11 through 15 listed in Table A, the Permittee shall comply with the following applicable requirements of NEHSAP Subpart ZZZZ.

[18 AAC 50.040(c)(23), 50.040(j), & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.6580, 63.6585, & 63.6590, Subpart ZZZZ]

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

46.1. For EU IDs 11 through 13, the Permittee shall comply with the following:

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

a. You must meet the following requirements, except during periods of startup:

(i) Change oil and filter every 500 hours of operation or annually, whichever comes first;

(ii) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

(iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

b. If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Condition 46.1.a, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

[Table 2d, Item 4, Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

c. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition 46.1.a(i). The oil analysis must be performed at the same frequency specified for changing the oil in Condition 46.1.a(i). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

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

46.2. For EU IDs 14 and 15, the Permittee shall comply with the following:

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

a. You must meet the following requirements, except during periods of startup:

(i) Change oil and filter every 1,000 hours of operation or annually, whichever comes first;

(ii) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and

(iii) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

[Table 2d, Item 1, Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

b. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Condition 46.2.a(i). The oil analysis must be performed at the same frequency specified for changing the oil in Condition 46.2.a(i). The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the

engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

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

46.3. For EU IDs 11 through 15, during periods of startup you must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.

[40 CFR 63.6625(h) & Table 2d, Subpart ZZZZ]
[40 CFR 71.6(a)(1)]

NESHAP Subpart ZZZZ General Requirements

46.4. For EU IDs 11 through 15, the Permittee shall comply with the following:

a. You must be in compliance with the requirements under Condition 46 at all times.

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

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

NESHAP Subpart ZZZZ Installation Requirements

46.5. For EU IDs 11 through 13, you must install a non-resettable hour meter if one is not already installed.

[40 CFR 63.6625(f), Subpart ZZZZ]
[40 CFR 71.6(a)(1)]

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

46.6. For EU IDs 11 through 15, you must demonstrate continuous compliance with each requirement in Conditions 46.1.a and 46.2.a by:

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

a. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

b. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

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

46.7. For EU IDs 11 through 13, you must operate the emergency stationary RICE according to the requirements in Conditions 46.7.a through 46.7.c. In order for the engine to be considered an emergency stationary RICE under NESHAP Subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in Conditions 46.7.a through 46.7.c, is prohibited. If you do not operate the engine according to the requirements in Conditions 46.7.a through 46.7.c, the engine will not be considered an emergency engine under NESHAP Subpart ZZZZ and must meet all requirements for non-emergency engines.

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

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

b. You may operate your emergency stationary RICE for the purposes specified in Condition 46.7.b(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 46.7.c counts as part of the 100 hours per calendar year allowed by this condition.

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

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

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

c. Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition 46.7.b. Except as provided in Condition 46.7.c(i), the 50 hours per year for non-emergency situations cannot be used to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

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

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the conditions of 40 CFR 63.6640(f)(4)(ii)(A) through (E) are met.

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

NESHAP Subpart ZZZZ Recordkeeping Requirements

46.8. For EU IDs 11 through 15, the Permittee shall comply with the following:

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

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

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

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

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

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

46.9. For EU ID 11 through 13, the Permittee shall comply with the following:

a. You must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in Condition 46.7.c(i), the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.

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

NESHAP Subpart ZZZZ Reporting Requirements

46.10. For EU IDs 11 through 15, the Permittee shall comply with the following:

a. You must report each instance in which you did not meet the requirements in Table 8 to NESHAP Subpart ZZZZ that apply to you.

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

b. You must report all deviations as defined in NESHAP Subpart ZZZZ in the monitoring report required by Condition 83.

[40 CFR 63.6650(f), Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

46.11. For EU ID 11 through 13, the Permittee shall comply with the following:

a. If you own or operate an emergency stationary RICE that operates for the purpose specified in Condition 46.7.c(i), you must submit an annual report according to the requirements in 40 CFR 63.6650(h)(1) through (3).

[40 CFR 63.6650(h), Subpart ZZZZ]
[40 CFR 71.6(a)(3)]

40 CFR Part 82 Protection of Stratospheric Ozone

47. Subpart F – Recycling and Emissions Reduction. The Permittee shall comply with the applicable standards for recycling and emission reduction of refrigerants in 40 CFR 82, Subpart F.

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

48. Subpart G – Significant New Alternatives. The Permittee shall comply with the applicable prohibitions in 40 CFR 82.174.

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

49. Subpart H – Halons Emissions Reduction. The Permittee shall comply with the applicable prohibitions in 40 CFR 82.270.

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

General NSPS and NESHAP Requirements

50. NESHAP Applicability Determinations. The Permittee shall determine rule applicability and designation of affected sources under National Emission Standards for Hazardous Air Pollutants (NESHAPs) for Source Categories (40 CFR 63) in accordance with the procedures in 40 CFR 63.1(b).

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

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

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

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

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

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

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

53. 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 83 for the period covered by the report, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10. For reports previously submitted to ADEC or submitted through CDX/CEDRI, state in the operating report the date and a brief description of each of the reports submitted during the reporting period.

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

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

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

Section 5. General Conditions

Standard Terms and Conditions

55. 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)]

56. 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)]

57. 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)]

58. 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]

59. Assessable Emissions. The Permittee shall pay to the Department annual emission fees based on the stationary source's assessable emissions as determined by the Department under 18 AAC 50.410. The assessable emission fee rate is set out in 18 AAC 50.410. The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities 10 tons per year or greater. The quantity for which fees will be assessed is the lesser of

59.1. the stationary source's assessable potential to emit of 1,280 tpy; or

59.2. the stationary source's projected annual rate of emissions that will occur from July 1 to the following June 30, based upon credible evidence of actual annual emissions emitted during the most recent calendar year or another 12-month period approved in writing by the Department, when demonstrated by the most representative of 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)(3), 50.035, 50.326(j)(1), 50.346(b)(1), 50.410, & 50.420]
[40 CFR 71.5(c)(3)(ii)]

60. Assessable Emission Estimates. Emission fees will be assessed as follows:

60.1. no later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions to ADEC, Air Permits Program, ATTN: Assessable Emissions Estimate, 410 Willoughby Ave., Suite 303, PO Box 111800, Juneau, AK 99811-1800; the submittal must include all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates; or

60.2. 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 set out in Condition 59.1.

[18 AAC 50.040(j)(3), 50.326(j)(1), 50.346(b)(1), 50.410, & 50.420]
[40 CFR 71.5(c)(3)(ii)]

61. Good Air Pollution Control Practice. The Permittee shall do the following for EU IDs 5 through 8, 18, 18A, 23, and 25:

61.1. perform regular maintenance considering the manufacturer's or the operator's maintenance procedures;

61.2. keep records of any maintenance that would have a significant effect on emissions; the records may be kept in electronic format; and

61.3. keep a copy of either the manufacturer's or the operator's maintenance procedures.

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

62. 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)]

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

[18 AAC 50.045(d), 50.040(e), 50. 326(j)(3), & 50.346(c)]

63.1. 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 63.1.a or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

63.2. The Permittee shall report according to Condition 65.

64. 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)]

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

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

65.1. Monitoring, Recordkeeping, and Reporting for Condition 65:

a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 82.

b. 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 65.

c. 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 65; or

(ii) the Department notifies the Permittee that it has found a violation of Condition 65.

d. The Permittee shall keep records of

(i) the date, time, and nature of all emissions complaints received;

(ii) the name of the person or persons that complained, if known;

(iii) a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 65; and

(iv) any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

e. With each stationary source operating report under Condition 83, the Permittee shall include a brief summary report which must include

(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.

f. 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.

66. 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[10] listed in Conditions 25 through 27, 43, and 47 (refrigerants), the Permittee shall

66.1. take all reasonable steps to minimize levels of emissions that exceed the standard, and

66.2. report in accordance with Condition 82; the report must include information on the steps taken to mitigate emissions and corrective measures taken or to be taken.

[18 AAC 50.235(a), 50.326(j)(4), & 50.040(j)(4)]
[40 CFR 71.6(c)(6)]

Open Burning Requirements

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

67.1. keep written records to demonstrate that the Permittee complies with the limitations in this condition and the requirements of 18 AAC 50.065. Upon request by the Department, submit copies of the records; and

67.2. include this condition in the annual certification required under Condition 84.

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

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

Section 6. General Source Testing and Monitoring Requirements

68. 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)]

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

[18 AAC 50.220(b)]

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

69.2. 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.

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

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

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

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

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

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

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

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

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

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

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

70.6. Source testing for emissions of $PM_{2.5}$ and PM_{10} must be conducted in accordance with the procedures specified in 40 CFR 51, Appendix M, Methods 201 or 201A and 202.

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

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

[18 AAC 50.040(c)(32) & 50.220(c)(2)]
[40 CFR 63, Appendix A, Method 301]

71. 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)]

72. Test Exemption. The Permittee is not required to comply with Conditions 74, 75 and 76 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.1).

[18 AAC 50.345(a)]

73. 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)]

74. Test Plans. Except as provided in Condition 72, 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 68 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)]

75. Test Notification. Except as provided in Condition 72, 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)]

76. Test Reports. Except as provided in Condition 72, 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 79. 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)]

77. Particulate Matter Calculations. In source testing for compliance with the particulate matter standards in Conditions 6 and 33.2, the three-hour average is determined using the average of three one-hour test runs.

[18 AAC 50.220(f)]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

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

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

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

78.2. 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.

Reporting Requirements

79. 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.

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

a. a certifying authority registered under AS 09.80.020 verifies that the electronic signature is authentic; and

b. the person providing the electronic signature has made an agreement, with the certifying authority described in Condition 79.1.a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.

[18 AAC 50.345(a) & (j), 50.205, & 50.326(j)]
[40 CFR 71.6(a)(3)(iii)(A)]

80. Submittals. Unless otherwise directed by the Department or this permit, the Permittee shall submit reports, compliance certifications, and/or other submittals required by this permit, to ADEC, Air Permits Program, 610 University Ave., Fairbanks, AK 99709-3643, ATTN: Compliance Technician. The Permittee shall submit the documents either by hard copy or electronically.

80.1. Provide electronic submittals, either by:

a. E-mail under a cover letter using dec.aq.airreports@alaska.gov; or

b. using the Department's Air Online Services at http://dec.alaska.gov/applications/air/airtoolsweb/.

[18 AAC 50.326(j)]
[40 CFR 71.6(a)(3)(iii)(A)]

81. 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 CFR 71.5(a)(2) & 71.6(a)(3)]

82. Excess Emissions and Permit Deviation Reports.

82.1. Except as provided in Condition 65, the Permittee shall report all emissions or operations that exceed or deviate from the requirements of this permit as follows:

a. in accordance with 18 AAC 50.240(c), as soon as possible after the event commences or is discovered, report

(i) 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. report all other excess emissions and permit deviations

(i) within 30 days after the end of the month during which the emissions or deviation occurred, except as provided in Condition 82.1.c(iii); or

(ii) if a continuous or recurring excess emissions is not corrected within 48 hours of discovery, within 72 hours of discovery unless the Department provides written permission to report under Condition 82.1.c(i); and

(iii) for failure to monitor, as required in other applicable conditions of this permit.

82.2. When reporting either excess emissions or permit deviations, the Permittee shall report using either the Department's online form, which can be found at http://dec.alaska.gov/applications/air/airtoolsweb, or if the Permittee prefers, the form contained in Section 13 of this permit. The Permittee must provide all information called for by the form that is used.

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

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

83. Operating Reports. During the life of this permit[11], the Permittee shall submit an operating report by May 15 for the period January 1 to March 31, by August 15 for the period April 1 to June 30, by November 15 for the period July 1 to September 30, and by February 15 for the period October 1 to December 31 of the previous year.

83.1. 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.

83.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 83.1, the Permittee shall identify

a. the date of the 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

83.3. when excess emissions or permit deviations have already been reported under Condition 82, the Permittee shall cite the date or dates of those reports.

83.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.1.e 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;

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

c. the permit condition affected; and

d. the monitoring result which triggered the additional monitoring.

83.5. **Transition from expired to renewed permit**. For the first period of this renewed operating permit, also provide the previous permit's operating report elements covering that partial period immediately preceding the effective date of this renewed permit.

[18 AAC 50.346(b)(6) & 50.326(j)]
[40 CFR 71.6(a)(3)(iii)(A)]

84. 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 80.

84.1. Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, as follows:

a. identify each term or condition set forth in Section 3 through Section 9, that is the basis of the certification;

b. briefly describe each method used to determine the compliance status;

c. state whether compliance is intermittent or continuous; and

d. identify each deviation and take it into account in the compliance certification;

84.2. **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.

84.3. In addition, submit a copy of the report directly to the Clean Air Act Compliance Manager, US EPA Region 10, Mail Stop: OCE-101, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101.

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

85. Emission Inventory Reporting. The Permittee shall submit to the Department reports of actual emissions, by emissions unit, of CO, NH_3, NOx, PM_{10}, $PM_{2.5}$, SO_2, VOCs and lead (Pb) (and lead compounds) using the form in Section 14 of this permit, as follows:

85.1. Each year by April 30, if the stationary source's potential to emit for the previous calendar year equals or exceeds:

a. 250 tpy of NH_3, PM_{10}, $PM_{2.5}$ or VOCs; or

b. 2,500 tpy of CO, NO_X or SO_2.

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

a. 0.5 tpy of actual Pb, or

b. 1,000 tpy of CO; or

c. 100 tpy of SO_2, NH_3, PM_{10}, $PM_{2.5}$, NO_X or VOCs.

85.3. For reporting under Condition 85.2, the Permittee shall report in 2015 for calendar year 2014, 2018 for calendar year 2017, 2021 for calendar year 2020, etc., in accordance with the Environmental Protection Agency set schedule.

85.4. Include in the report required by this condition, the required data elements contained within the form in Section 14 or those contained in Table 2A of Appendix A to Subpart A of 40 CFR 51 for each stack associated with an emissions unit.

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

Section 8. Permit Changes and Renewal

86. Permit Applications and Submittals. The Permittee shall comply with the following requirements for submitting application information to the US Environmental Protection Agency (EPA):

86.1. 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;

86.2. The information shall be submitted to the Part 70 Operating Permit Program, US EPA Region 10, Mail Stop: OAW-150, 1200 Sixth Avenue, Suite 900, Seattle, WA 98101.

86.3. 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

86.4. The Permittee shall maintain records as necessary to demonstrate compliance with this condition.

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

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

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

88. 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 CFR Part 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:

88.1. Each such change shall meet all applicable requirements and shall not violate any existing permit term or condition;

88.2. 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;

88.3. The change shall not qualify for the shield under 40 CFR 71.6(f);

88.4. 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)]
[40 CFR 71.6(a)(12)]

89. Operational Flexibility. The Permittee may make CAA Section 502(b)(10)[12] 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):

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

89.2. For each such change, the notification required by Condition 89.1 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.

89.3. The permit shield described in 40 CFR 71.6(f) shall not apply to any change made pursuant to Condition 89.

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

90. Permit Renewal. To renew this permit, the Permittee shall submit to the Department[13] an application under 18 AAC 50.326 no sooner than [18 months before] and no later than [6 months before the expiration date of this permit]. The renewal application 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 CFR 71.7(b) and 71.5(a)(1)(iii).

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

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

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

Section 9. Compliance Requirements

General Compliance Requirements

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

91.1. included and specifically identified in the permit; or

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

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

92. 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

92.1. an enforcement action;

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

92.3. denial of an operating permit renewal application.

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

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

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

94. 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)]

95. The Permittee shall allow the Department or an inspector authorized by the Department, upon presentation of credentials and at reasonable times with the consent of the owner or operator to

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

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

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

95.4. 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)]

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

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

Section 10. Permit As Shield from Inapplicable Requirements

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

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

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

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

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

98. Table F 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 F 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 50.326(j)]
[40 CFR 71.6(f)(1)(ii)]

Table F - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Stationary Source-Wide	40 C.F.R. 60 Subpart J, Ja, GGG, GGGa, QQQ	Stationary source does not meet the definition for a petroleum refinery.
	40 C.F.R. 60 Subpart KKK	Stationary source is not a natural gas processing plant as defined in subpart.
	40 C.F.R. 60 Subpart LLL	Stationary source does not operate natural gas sweetening unit(s).
	40 C.F.R. 60 Subparts OOOO& OOOOa	Stationary source does not contain onshore affected facilities as defined in the subpart.
Stationary Source-Wide	40 C.F.R. 60 Subpart E, Ea, Eb, Ec, F, G, Ga, H, I, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, VVa, WW XX, AAA, BBB, DDD, FFF, HHH, III, JJJ, NNN, OOO, PPP, RRR, SSS, TTT, UUU, VVV, WWW, AAAA, CCCC, DDDD, EEEE, LLLL	No affected facility.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Stationary Source-Wide	40 C.F.R. 61 Subpart J	No process components in benzene service, as defined by subpart (10% benzene by weight).
	40 C.F.R. 61 Subpart M: §61.142	Stationary source is not an Asbestos Mill.
	40 C.F.R. 61 Subpart M: §61.143	Stationary source roadways not exposed to asbestos tailings or asbestos containing waste.
	40 C.F.R. 61 Subpart M: §61.144	Stationary source does not engage in any manufacturing operations using commercial asbestos.
	40 C.F.R. 61 Subpart M: §61.146	Stationary source does not spray apply asbestos containing materials.
Stationary Source-Wide	40 C.F.R. 61 Subpart M: §61.147	Stationary source does not engage in any fabricating operations using commercial asbestos.
	40 C.F.R. 61 Subpart M: §61.148	Stationary source does not install or reinstall, on any stationary source component, insulation material containing commercial asbestos.
	40 C.F.R. 61 Subpart M: §61.149	Applies to only those facilities subject to 61.142.
	40 C.F.R. 61 Subpart M: §61.151	Applies only to those facilities subject to 61.142, 61.144, or 61.147.
	40 C.F.R. 61 Subpart M: §61.152	Stationary source does not use air cleaning equipment.
Stationary Source-Wide	40 C.F.R. 61 Subpart M: §61.153	No reporting requirements apply for sources subject to 61.145.
	40 C.F.R. 61 Subpart M: §61.154	Stationary source is not an active waste disposal site and does not receive asbestos containing waste material.
	40 C.F.R. 61 Subpart M: §61.155	Stationary source does not process regulated asbestos containing material (RACM).
	40 C.F.R. 61 Subpart V	Stationary source does not operate equipment in volatile hazardous air pollutant (VHAP) service, as defined by subpart (> or = 10% VHAP by weight).
	40 C.F.R. 61 Subpart Y	Stationary source does not operate storage vessels in benzene service.
Stationary Source-Wide	40 C.F.R. 61 Subpart BB	Stationary source does not conduct benzene transfer operations.
	40 C.F.R. 61 Subpart FF	Stationary source does not benzene waste operations.
	40 C.F.R. 61 Subpart B, C, D, E, F, H, I, K, L, N, O, P, Q, R, T, W	No affected facility.
	40 C.F.R. 63 Subpart T	Stationary source does not operate halogenated solvent cleaning machines.
	40 C.F.R. 63 Subpart CC, UUU	Stationary source does not meet the definition for a petroleum refinery.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Stationary Source-Wide	40 C.F.R. 63 Subpart VV	Provisions only apply to oil-water separators and organic-water separators affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart VV.
	40 C.F.R. 63 Subpart HH	Area sources and stationary source are exempt from the subpart because it exclusively processes, stores, or transfers “black oil”.
	40 C.F.R. 63 Subpart HHH	Stationary source does not transmit or store natural gas prior to entering the pipeline to a local distribution company or to a final end user and stationary source is not a major source of HAPS.
	40 C.F.R. 63 Subpart EEEE	Stationary source is not a major source of HAPs and does not distribute organic liquids.
Stationary Source-Wide	40 C.F.R. 63 Subpart B, F, G, H, I, J, L, M, N, O, Q, R, S, U, W, X, Y, AA, BB, DD, EE, GG, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, WW, XX, YY, CCC, DDD, EEE, GGG, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, AAAA, CCCC, DDDD, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS, TTTT, UUUU, VVVV, WWWW, XXXX	No affected facility.
Stationary Source-Wide	40 C.F.R. 63 Subpart AAAAA, BBBBB, CCCCC, EEEEE, FFFFF, GGGGG, HHHHH, IIIII, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN, PPPPP, QQQQQ, RRRRR, SSSSS, TTTTT, UUUUU, WWWWW, YYYYY, ZZZZZ, BBBBBB, DDDDDD, EEEEEE, FFFFFF, GGGGGG, HHHHHH, LLLLLL, MMMMMM, NNNNNN, OOOOOO, PPPPPP, QQQQQQ, RRRRRR, SSSSSS, TTTTTT, VVVVVV, WWWWWW, XXXXXX, YYYYYY, ZZZZZZ, AAAAAAA, BBBBBBB, CCCCCCC, DDDDDDD, EEEEEEE, HHHHHHH	No affected facility.
Stationary Source-Wide	40 C.F.R. 82 Subpart A: §82.1	Stationary source does not produce, transform destroy, import or export Class I or Group I or II substances or products.
	40 C.F.R. 82 Subpart B: §82.30	Stationary source does not service motor vehicles air conditioners.
	40 C.F.R. 82 Subpart C: §82.60	Stationary source is not the ultimate consumer and not a manufacturer or distributor of Class I or II products or substances.
	40 C.F.R. 82 Subpart D: §82.80	Subpart applies only to Federal departments, agencies, and instrumentalities.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Stationary Source-Wide	40 C.F.R. 82 Subpart E: §82.100	Stationary source is not the ultimate consumer and not a manufacturer or distributor of Class I and II products or substances.
	40 C.F.R. 82 Subpart F: §82.158	Stationary sources does not manufacture or import recovery and recycling equipment.
	40 C.F.R. 82 Subpart F: §82.160	Stationary source does not contract equipment testing organization to certify recovery and recycling equipment.
	40 C.F.R. 82 Subpart F: §82.164	Stationary source does not sell reclaimed refrigerant.
Stationary Source-Wide	40 C.F.R. 82 Subpart F: Appendix C	Stationary source is not a third party entity that certifies recovery equipment.
	40 C.F.R. 82 Subpart F: Appendix D	Stationary source does not have technician certification program.
	40 C.F.R. 82 Subpart G: §82.174 (a)	Stationary source does not manufacture substitute chemicals or products for ozone-depleting compounds.
	40 C.F.R. 82 Subpart H: §82.270 (a)	Stationary source does not manufacture halon.
	40 C.F.R. 82 Subpart I: §82.304	Stationary source does not sell or distribute any identified banned products.
Stationary Source-Wide	18 AAC 50.055(a)(2) through (9) 18 AAC 50.055(b)(2) through (6) 18 AAC 50.075	No affected emission units within the permitted stationary source.
	18 AAC 50.060 and 50.070	Not an affected emission unit, operation, or industry.
	18 AAC 50.085 and 50.090	Regulations only apply to facilities within the Port of Anchorage.
Activities Subject to 40 CFR 61.145, Subpart M	40 C.F.R. 61 Subpart A: §§61.05(a), 61.07, 61.09	Owners or operators of demolition and renovation operation are exempt from the requirements of 40 C.F.R. 61.05 (a), 61.07, and 61.09.
	40 C.F.R. 61 Subpart A: §61.10	Demolition and renovation operations are exempt from 40 C.F.R. 61.10(a).
	40 C.F.R. 61 Subpart A: §§61.13, 61.14	Emission tests or monitoring is not required under the standards for demolition and renovation.
All Storage Tanks	40 C.F.R. 63 Subpart OO	Provisions only apply to tanks affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart OO.
	40 C.F.R. 63 Subpart SS	Provisions only apply to tanks affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart SS.
Drain Systems	40 C.F.R. 63 Subpart RR	The provisions of 40 C.F.R. 63 Subpart RR apply to the control of air emissions from individual drain systems for which another subpart of 40 CFR parts 60, 61, or 63 references the use of 40 C.F.R. 63 Subpart RR for such air emission control. No other applicable subpart of 40 CFR parts 60, 61, or 63 references the use of 40 CFR 63 Subpart RR, therefore it is not applicable to the facility.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Mobile Engines	18 AAC 50.055	The limits of 18 AAC 50.055 do not apply to mobile engines. Mobile internal combustion engines are not included in the definition of fuel-burning equipment under 18 AAC 50.990.
1, 2, 3, 4	40 C.F.R. 60 Subpart A: §60.7(a)(1), (2) & (3) (initial notification only)	These emission units were installed in 1995 or earlier, which is prior to Hilcorp's purchase of the MPU facility in 2014. It is assumed that the previous owner/operator had submitted the appropriate notifications. Additionally, the permit only requires the Permittee to retain records for 5 years and the dates for the required notifications are outside of this timeframe.
1, 2, 3, 4	40 C.F.R. 60 Subpart A: §60.7(a)(4)	This requirement only applies to "existing facilities," as defined in 40 C.F.R. 60.2.
3, 4	40 C.F.R. 60 Subpart A: §60.7(c) & (d)	The provisions of 60.7(c) & (d) apply only to New Source Performance Standards which require the installation of a continuous monitoring system (CMS) or monitoring device, as defined in 60.2; a CMS or monitoring device is not installed for Subpart Dc.
3, 4	40 C.F.R. 60 Subpart A: §60.8 40 C.F.R. 60 Subpart Dc: §§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, 60.47c, 60.48c(a)(4), (b) – (f) & (h)	Standards for SO_2 and PM and related performance test, monitoring and reporting requirements not applicable for affected stationary source fired on fuel gas.
3, 4	40 C.F.R. 60 Subpart Dc: §60.48c(a)(2) – (3)	Stationary source is not subject to any requirements that limit the annual capacity factor for any fuel or mixture of fuels – stationary source fires only fuel gas.
1, 2	40 C.F.R. 60 Subpart GG: §60.332(a)(1)	Standard only applies to Electric Utility Stationary Gas Turbines, as defined in subpart – emission unit is not an Electric Utility Stationary Gas Turbine as defined in Subpart GG.
1, 2	40 C.F.R. 60 Subpart GG: §60.334(h)(2)	Hilcorp has not claimed an allowance for fuel bound nitrogen to calculate the applicable NO_X emission limit under §60.332.
	40 C.F.R. 60 Subpart KKKK	The emission units have not commenced construction, modification or reconstruction after February 18, 2005. The permit shield for Subpart KKKK only applies to currently installed units until modified, reconstructed or replaced.
1, 2, T-1, T-2, T-3	40 C.F.R. 63 Subpart YYYY	Stationary source is not a major source of HAPs, and the affected facilities are on the North Slope.
T-1, T-2, T-3, 3, 4, 5, 6, 7, 8	40 C.F.R. 64 – Compliance Assurance Monitoring	These units do not use a control device to achieve compliance with any emission limitation or standard.
3, 4, 5, 6, 7, 8	40 CFR 60 Subpart D & Da	Heat input capacities below threshold (250 MMBtu/hr); and units not classified as Fossil-Fuel-Fired Steam Generators, as defined in subpart.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
3, 4, 5, 6, 7, 8	40 C.F.R. 60 Subpart Db	Heat input capacities below threshold (100 MMBtu/hr).
5, 6, 7, 8	40 C.F.R. 60 Subpart Dc	Commenced construction prior to the applicability date of subpart (6/9/89) and have not been modified, reconstructed or replaced.
3, 4, 5, 6, 7, 8	40 C.F.R. 63 Subpart DDDDD Stationary source	Stationary source is not a major source of HAPs.
11, 12, 13, 14, 15	40 CFR 60 Subpart IIII	The emission units have not commenced construction, modification, or reconstruction after July 11, 2005. This shield only applies to the currently installed units until modified, reconstructed or replaced.
11, 12, 13, 14, 15	40 CFR 60 Subpart JJJJ	The emission units are compression ignition engines and have not commenced construction, modification, or reconstruction after June 12, 2006.
11, 12, 13	40 C.F.R. 63.5	Stationary source is not a major source of HAPS.
11, 12, 13	40 C.F.R. 63.7, 63.8	The facility is an area source with non-emergency engines that are all less than 300 hp, emergency engines greater than 300 hp, and a remote spark ignition engine so no emission or operational limits apply.
11, 12, 13	40 C.F.R. 63 Subpart ZZZZ, §63.6600, 63.6601, 63.6602, 63.6610, 63.6611, 63.6625(d)	Stationary source is not a major source of HAPS.
11, 12, 13	40 C.F.R. 63 Subpart ZZZZ, §63.6625(g)	Diesel engines are emergency engines greater than 300 hp.
11, 12, 13	40 C.F.R. 63 Subpart ZZZZ, §63.6615, 63.6620, 63.6625(a) & (b), 63.6630, 63.6635, 63.6640(b)-(d), 63.6645, 63.6655(a)-(d)	The facility is an area source with non-emergency engines that are all less than 300 hp, emergency engines greater than 300 hp, and a remote spark ignition engine so no emission or operational limits apply.
11, 12, 13	40 C.F.R. 63 Subpart ZZZZ §63.6625(c)	Facility does not fire landfill gas or digester gas in the gas engine.
18, 18A	40 C.F.R. Subpart A: §60.18	These flares are not control devices used to comply with any applicable Subparts of 40 C.F.R. 60 and 40 C.F.R. 61.
18, 18A, 25	40 C.F.R. 64 – Compliance Assurance Monitoring	These units do not have pre-control device emissions of an applicable regulated air pollutant equal to or greater than 100 TPY (criteria pollutants), 10 TPY any individual hazardous air pollutant (HAP), or 25 TPY all HAP combined.
23	40 C.F.R. 60 Subpart K	Commenced construction after the applicability sunset date of subpart (5/19/78).
23	40 C.F.R. 60 Subpart Ka	Commenced construction after the applicability sunset date of subpart (7/23/84).

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
23	40 C.F.R. 60 Subpart Kb	Per §60.110b(b), EU ID 23 is exempt because the vessel has a storage capacity greater than 151 m3 storing a liquid with a maximum true vapor pressure of less than 3.5 kPa. Hilcorp confirmed with field personnel that EU ID 23 contains a mixture of produced water and crude oil. This mixture is set at 90% produced water and 10% crude oil. Using TANKS, Hilcorp recalculated the maximum vapor pressure of the mixture, which is 2.7 kPa based on the TANKS output for the mixture.
23	40 C.F.R. 63 Subpart OO	Provisions only apply to tanks affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart OO.
23	40 C.F.R. 63 Subpart SS	Provisions only apply to tanks affected by 40 C.F.R. 60, 61, or 63 that specifically reference 40 C.F.R. 63 Subpart SS.

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

Section 11. Visible Emissions Observation Form

This form is designed to be used in conjunction with EPA Method 9, "Visual Determination of the Opacity of Emissions from Stationary Sources." Temporal changes in emission color, plume water droplet content, background color, sky conditions, observer position, etc. should be noted in the comments section adjacent to each minute of readings. Any information not dealt with elsewhere on the form should be noted under additional information. Following are brief descriptions of the type of information that needs to be entered on the form: for a more detailed discussion of each part of the form, refer to "Instructions for Use of Visible Emission Observation Form."

- 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, is Plume…: check "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 cloud cover by percentage or by description (clear, scattered, broken, overcast).
- Wind Speed: record wind speed; can use Beaufort wind scale or hand-held anemometer to estimate.
- Wind Direction From: direction from which wind is blowing; can use compass to estimate to eight points.
- Ambient Temperature: in degrees Fahrenheit or Celsius.
- Wet Bulb Temperature: can be measured using a sling psychrometer
- RH Percent: relative humidity measured using a sling psychrometer; use local US Weather Bureau measurements only if nearby.
- Source Layout Sketch: include wind direction, sun position, associated stacks, roads, and other landmarks to fully identify location of emission point and observer position.
- Draw North Arrow: to determine, point line of sight in direction of emission point, place compass beside circle, and draw in arrow parallel to compass needle.
- Sun's Location: point line of sight in direction of emission point, move pen upright along sun location line, mark location of sun when pen's shadow crosses the observer's position.
- Observation Date: date observations conducted.
- Start Time, End Time: beginning and end times of observation period (e.g., 1635 or 4:35 p.m.).
- Data Set: percent opacity to nearest 5%; enter from left to right starting in left column. Use a second (third, etc.) form, if readings continue beyond 30 minutes. Use dash (-) for readings not made; explain in adjacent comments section.
- Comments: note changing observation conditions, plume characteristics, and/or reasons for missed readings.
- Range of Opacity: note highest and lowest opacity number.
- Observer's Name: print in full.
- Observer's Signature, Date: sign and date after performing VE observation.
- Organization: observer's employer.
- Certified By, Date: name of "smoke school" certifying observer and date of most recent certification.

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR PERMITS PROGRAM - VISIBLE EMISSIONS OBSERVATION FORM

Page No.___________

Stationary Source Name		Type of Emission Unit		
Emission Unit Location				
City	State		Zip	
Phone # (Key Contact)		Stationary Source ID Number		
Process Equipment		Operating Mode		
Control Equipment		Operating Mode		
Describe Emission Point/Location				
Height above ground level	Height relative to observer		Clinometer Reading	
Distance From Observer Start End		Direction From Observer Start End		
Describe Emissions & Color Start		End		
Visible Water Vapor Present? If yes, determine approximate distance from the stack exit to w here the plume w as read				
No	Yes			
Point in Plume at Which Opacity Was Determined				
Describe Plume Background Start End		Background Color Start End		
Sky Conditions: Start		End		
Wind Speed Start End		Wind Direction From Start End		
Ambient Temperature		Wet Bulb Temp		RH percent
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read 2 Wind Direction From 3 Observer Location 4 Sun Location 5 North Arrow 6 Other Stacks				

Observation Date		Start Time		End Time

Sec / Min	0	15	30	45	Comments
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Range of Opacity Minimum	Maximum

I have received a copy of these opacity observations Print Name: Signature:		Print Observer's Name	
		Observer's Signature	Date
			Observer's Affiliation:
Title	Date	Certifying Organization Certified By:	Date

Data Reduction:

Duration of Observation Period (minutes):	Duration Required by Permit (minutes):
Number of Observations:	Highest Six–Minute Average Opacity (%):
Number of Observations exceeding 20%:	
In compliance with six-minute opacity limit? (Yes or No)	Highest 18-Consecutive –Minute Average Opacity (%)(engines and turbines only)

Average Opacity Summary:

Set Number	Time			Opacity		Comments
	Start	End		Sum	Average	

Section 12. SO_2 Material Balance Calculation

If a fuel shipment contains more than 0.75 percent sulfur by weight, calculate the three-hour exhaust concentration of SO_2 using the following equations:

A. = 31,200 x [**wt%S_{fuel}**] = 31,200 x _____ = _____

B. = 0.148 x [**wt%S_{fuel}**] = 0.148 x _____ = _____

C. = 0.396 x [**wt%C_{fuel}**] = 0.396 x _____ = _____

D. = 0.933 x [**wt%H_{fuel}**] = 0.933 x _____ = _____

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

F. = 20.9 – [**vol%$_{dry}O_{2,\ exhaust}$**] = 20.9 – _____ = _____

G. = [**vol%$_{dry}O_{2,\ exhaust}$**] ÷ F = _____ ÷ _____ = _____

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

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

SO_2 concentration = A ÷ I = _____ ÷ _____ = _____ ppm

The **wt%S_{fuel}, wt%C_{fuel},** and **wt%H_{fuel}** are equal to the weight percents of sulfur, carbon, and hydrogen in the fuel. These percentages should total 100%.

The fuel weight percent (wt%) of sulfur is obtained pursuant to Condition 14. The fuel weight percents of carbon and hydrogen are obtained from the fuel refiner.

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

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

[18 AAC 50.346(c)]

Section 13. ADEC Notification Form[14]

Milne Point Production Facility — **Stationary Source (Facility) Name**

AQ0200TVP03 — **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?

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

☐ Deviation from Permit Condition – Complete Section 2 and Certify

☐ Deviations from COBC, CO, or Settlement Agreement – Complete Section 2 and Certify

Section 1. Excess Emissions

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

(b) **Cause of Event** (Check one that applies):

☐ Start Up/Shut Down ☐ Natural Cause (weather/earthquake/flood)

☐ Control Equipment Failure ☐ Schedule Maintenance/Equipment Adjustment

☐ Bad Fuel/Coal/Gas ☐ Upset Condition ☐ Other _____

(c) **Description**

Describe briefly, what happened and the cause. Include the parameters/operating conditions exceeded, limits, monitoring data and exceedance.

(d) **Emissions Units Involved:**

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

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

[14] Revised as of September 27, 2010.

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

☐ Opacity _____ % ☐ Venting _____ gas/scf ☐ Control Equipment Down

☐ Fugitive Emissions ☐ Emission Limit Exceeded ☐ Recordkeeping Failure

☐ Marine Vessel Opacity ☐ Flaring ☐ Other

(f) **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 only one box corresponding with the section in the permit):

☐ Emissions Unit-Specific

☐ Failure to Monitor/Report

☐ General Source Test/Monitoring Requirements

☐ Recordkeeping/Reporting/Compliance Certification

☐ Standard Conditions Not Included in the Permit

☐ Other Section: _____ (Title of section and section number of your permit).

☐ Generally Applicable Requirements

☐ Reporting/Monitoring for Diesel Engines

☐ Insignificant Emissions Unit

☐ Stationary Source Wide

(b) **Emissions Units Involved:**

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

EU ID	EU Name	Permit Condition/ Potential Deviation

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

Describe briefly what happened and the cause. Include the parameters/operating conditions and the potential deviation.

(d) **Corrective Actions:**

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

Certification:

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

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j)*

To submit this report:

1. Fax to: 907-451-2187

   Or

2. Email to: DEC.AQ.Airreports@alaska.gov

   Or

3. Mail to: ADEC
   Air Permits Program
   610 University Avenue
   Fairbanks, AK 99709-3643

   Or

4. Phone Notifications: 907-451-5173

   Phone notifications require a written follow-up report.

   Or

5. Submission of information contained in this report can be made electronically at the following website: *http://dec.alaska.gov/applications/air/airtoolsweb/.*

If submitted online, report must be submitted by an authorized E-Signer for the stationary source.

[18 AAC 50.346(b)(3)]

Section 14. Emission Inventory Form

ADEC Reporting Form **Emission Inventory Reporting** **State of Alaska Department of Environmental Conservation** **Division of Air Quality**	**Emission Inventory Year- [ ]**
Mandatory information is highlighted in bright yellow. Make additional copies as needed.	

Stationary Source Detail		
Inventory start date		
Inventory end date		
ADEC ID or Permit Number		
EPA ID:		
Census Area/ Community		
Facility Name		
Facility Physical Location	**Address:**	
	City, State, Zip Code:	
	Latitude:	**Longitude:**
	Legal Description:	
Owner Name & Address & contact number	**Owner Name:**	
	Owner Address:	
	Phone Number:	
Mailing Contact Information	**Mailing Address:**	
Line of Business (NAICS)		
Line of Business (SIC)		
Facility Status:		

Emissions Unit Data			
Specifications			
ID		**Design Capacity**	
Description			
Emissions Unit Status			
Manufacturer		**Manufactured Year**	
Model Number		**Serial Number**	
Regulations			
Regulation/Description:			
Control Equipment (List All if applicable):			
ID			
System Description	-		
Equipment Type(s)			
Manufacturer			
Model			
Control Efficiency (%)			
Capture Efficiency (%)			
Pollutants Controlled		**Reduction Efficiency (%):**	
		Reduction Efficiency (%):	

Processes	
Process	**Primary Process**
SCC Code	(ex. 20100201)
	>
	>
	>
	>
Material Processed	
Period Start	
Period End	
Throughput (units)	
Summer %	
Fall %	

Winter %	
Spring %	

Operational Schedule

Days/Week	
Hours/Day	
Weeks/Year	
Hours/Year	

Fuel Characteristics

Heat Content	Elem. Sulfur Content (%)	H2S Sulfur Content	Ash Content (if applicable)

Heating

Heat Input	Heat Output	Heat Values Convention

Emissions Operating Type:

Pollutant	Emission Factor (EF)	EF Numerator	EF Denominator	EF Source	Tons
Carbon Monoxide (CO)					
Nitrogen Oxides NOx					
PM_{10} Primary (PM_{10}-PRI)					
$PM_{2.5}$ Primary (PM_{25}-PRI)					
Sulfur Dioxide (SO_2)					
Ammonia (NH_3)					
Lead and lead compounds					
Volatile Organic Compounds (VOC)					

Emissions' Release Point

Release Point ID					
Apportion%					

Process	**Secondary Process**
SCC Code	(ex. 20100201)
	>
	>

	>
	>
Material Processed	
Period Start	
Period End	
Throughput (units)	
Summer %	
Fall %	
Winter %	
Spring %	

Operational Schedule

Days/Week	
Hours/Day	
Weeks/Year	
Hours/Year	

Fuel Characteristics

Heat Content	Elem. Sulfur Content (%)	H2S Sulfur Content	Ash Content (if applicable)

Heating

Heat Input	Heat Output	Heat Values Convention

Emissions Operating Type:

Pollutant	Emission Factor (EF)	EF Numerator	EF Denominator	EF Source	Tons
Carbon Monoxide (CO)					
Nitrogen Oxides NOx					
PM_{10} Primary (PM_{10}-PRI)					
$PM_{2.5}$ Primary (PM_{25}-PRI)					
Sulfur Dioxide (SO_2)					
Ammonia (NH_3)					
Lead and lead compounds					
Volatile Organic Compounds (VOC)					

Emissions' Release Point					
Release Point ID					
Apportion%					

Stack Detail (Release Point)	
> Specifications	
ID	
Type	
Description	
Stack Status	
> Stack Parameters	
Stack Height (ft)	
Stack Diameter (ft)	
Exit Gas Temp (F)	
Exit Gas Velocity (fps)	
Exit Gas Flow Rate (acfm)	
> Geographic Coordinate	
Latitude	
Longitude	
Datum	
Accuracy (meters)	
Base Elevation (meters)	

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)*

To submit this report:

1. Fax this form to: 907-465-5129; or
2. E-mail to: DEC.AQ.airreports@alaska.gov; or
3. Mail to: ADEC
   Air Permits Program
   PO Box 111800
   Juneau, AK 99811-1800

Or

4. Direct data entry for emission inventory can be done through the Air Online System (AOS). A myAlaska account is needed to gain access and a profile needs to be set up in Permittee Portal.
   http://dec.alaska.gov/Applications/Air/airtoolsweb/.

[18 AAC 50.346(b)(9)]

Attachment 1 - 40 CFR 60 Subpart A Summary Report
Gaseous and Opacity Excess Emission and Monitoring System Performance

[Note: This form is referenced in 40 C.F.R. 60.7, Subpart A-General Provisions]

Pollutant *(Circle One)*: SO_2 NO_X TRS H_2S CO Opacity

Reporting period dates: From _____ to _____

Company:
Emission Limitation: _____

Address: _____

Monitor Manufacturer: _____

Model No.: _____

Date of Latest CMS Certification or Audit: _____

Process Unit(s) Description: _____

Total source operating time in reporting period [1]: _____

Emission Data Summary [1]	**CMS Performance Summary** [1]
1. Duration of excess emissions in reporting period due to:	1. CMS downtime in reporting period due to:
a. Startup/shutdown ..... ____	a. Monitor equipment malfunctions ..... ____
b. Control equipment problems ..... ____	b. Non-Monitor equipment malfunctions ..... ____
c. Process problems ..... ____	c. Quality assurance calibration ..... ____
d. Other known causes ..... ____	d. Other known causes ..... ____
e. Unknown causes ..... ____	e. Unknown causes ..... ____
2. Total duration of excess emissions ..... ____	2. Total CMS Downtime ..... ____
3. Total duration of excess emissions x (100) / [Total source operating time] ..... ____ % [2]	3. [Total CMS Downtime] x (100) / [Total source operating time] ..... ____ % [2]

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in 40 C.F.R. 60.7(c) shall be submitted.

Note: On a separate page, describe any changes since last quarter in CMS, process or controls.

I certify that the information contained in this report is true, accurate, and complete.

Name: _____

Signature: _____ *Date*: _____

Title: _____