DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0274TVP03 Issue Date: PUBLIC COMMENT - August 2, 2023
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 North Slope, LLC**, for the operation of the **Prudhoe Bay Operations Center / Main Construction Camp (PBOC/MCC)**.

The Prudhoe Bay Operations Center (PBOC) and the Main Construction Camp (MCC) along with the Crude Oil Topping Unit (COTU) are considered one stationary source for purposes of determining classification under 18 AAC 50.326(a), 18 AAC 50.302, and 18 AAC 50.502. COTU is currently operated under Operating Permit No. AQ0265TVP03.

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. AQ0274TVP02, including all revisions, expires.

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

James R. Plosay, Manager
Air Permits Program

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Abbreviations and Acronyms

AAC.....Alaska Administrative Code
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
CFR .....Code of Federal Regulations
CI .....compression ignition
CO .....carbon monoxide
dscf .....dry standard cubic foot
EPA .....US Environmental Protection Agency
EU.....emissions unit
gph .....gallons per hour
gr/dscf.....grain per dry standard cubic foot (1 pound = 7000 grains)
HAPs .....hazardous air pollutants [as defined in AS 46.14.990]
hp .....horsepower
ICE.....internal combustion engine
ID.....emissions unit identification number
kPa .....kiloPascals
kW .....kilowatts
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
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
NOx.....nitrogen oxides
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
psia .....pounds per square inch (absolute)
PSD .....prevention of significant deterioration
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 North Slope, LLC 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503
Stationary Source Name:		Prudhoe Bay Operations Center / Main Construction Camp (PBOC/MCC)
Location:		70º 15´ 15" North; 148º 21´ 09" West
Physical Address:		Section 11, T11N, R14E, Umiat Meridian, Prudhoe Bay Oilfield, AK
Owner:		Hilcorp North Slope, LLC 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503 ConocoPhillips Alaska Inc. 700 G Street (zip 99501) P.O. Box 100360 Anchorage, AK 99510-0360 Chevron USA Inc. 1029 West 3rd Ave, Suite 150 Anchorage, AK 99501-1072 ExxonMobil Alaska Production, Inc. 3700 Centerpoint Dr, Suite 4600 (zip 99503) P.O. Box 196601 Anchorage, AK 99519-6601
Operator:		Hilcorp North Slope, LLC 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503
Permittee's Responsible Official:		Luke Saugier, Senior Vice President 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503
Designated Agent:		CT Corporation Systems 9360 Glacier Highway, Suite 202 Juneau, AK 99801 (907) 586-3340
Stationary Source and Building Contact:		Greg Arthur, Air Program Lead 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503 (907) 777-8509 greg.arthur@hilcorp.com
Fee Contact:		Accounts Payable PO Box 61529 Houston, TX 77208 (713) 209-2400
Permit Contact:		Greg Arthur, Air Program Lead 3800 Centerpoint Drive, Suite 1400 Anchorage, AK 99503 (907) 777-8509 greg.arthur@hilcorp.com
Process Description:	SIC Code	1311 – Crude Petroleum and Natural Gas
	NAICS Code:	211120 - Crude Petroleum Extraction

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

Section 2. Emissions Unit Inventory and Description

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

Table A - Emissions Unit Inventory

EU ID	Tag Number (Serial Number)	Emissions Unit Description	Rating/Size	Installation or Construction Date
Group I – PBOC Gas-Fired Turbines				
1	K-PBOCPR-4901-7702T (21332)	Solar Saturn 10 T1020 Turbine Emergency Generator	900 kW / 1,200 hp ISO	4/21/1970
2	K-PBOCPR-4901-7703T (0006S32)	Solar Saturn 10 T1020 Turbine Emergency Generator	900 kW / 1,200 hp ISO	4/21/1970
3	K-PBOCPR-4901-7704T (1901C41)	Solar Centaur T-4001 Turbine Emergency Generator	2,800 kW / 3,800 hp ISO	10/29/1975
Group II – PBOC Gas-Fired Heaters				
21	K-4901-231	Rapid Engineering MUA Heater	4.375 MMBtu/hr (heat input; LHV)	1978
Group III – MCC Gas-Fired Heaters				
4	90-1601 (L-80585)	Cleaver Brooks Heater	12.55 MMBtu/hr (heat input; LHV)	11/22/1985
5	90-1602 (L-80584)	Cleaver Brooks Heater	12.55 MMBtu/hr (heat input; LHV)	11/22/1985
Group IV – PBOC Liquid Fuel-Fired Engines				
6	K-PBOCPR-4901-7701E (149039)	Waukesha L-5790-DSIU Emergency Generator	600 kW / 805 hp	1975
8	K-PBOCPR-4901-7705E (12E0002002)	GM Detroit Allison 9123-7305 Emergency Generator	800 kW / 1,075 hp	1988
9	K-WATER-4901-1507E (4A0263325)	GM Detroit Allison DDFP-04AT-7004 (10447312) Emergency Fire Water Pump	225 hp	10/1982
Group V – MCC Liquid Fuel-Fired Engines				
7	K-MCC-4902-90-2883 (66D30537)	Caterpillar 7N3380-3306 Emergency Generator	200 kW / 270 hp	1990 (estimated)
10	K-MCC-4902-2854 (74L1-1018)	EMD 8446202-9001 (20-645-E4) Emergency Generator	2,500 kW / 3,350 hp	1974
11	K-MCC-4902-2855 (74K1-1160)	EMD 8446202-9001 (20-645-E4) Emergency Generator	2,500 kW / 3,350 hp	1974
12a	K-MCC-4923-1500-49M (PE6068T980593)	Clarke, John Deere Model JU6H-UF34 Emergency Fire Water Pump	175 hp	2/8/2016[1]

EU ID	Tag Number (Serial Number)	Emissions Unit Description	Rating/Size	Installation or Construction Date
13	K-MCC-4923-1500-39 (505-5003)	Cummins 8X6YR Emergency Fire Water Pump	187 hp	12/1985
Group VI – MCC Gasoline Dispensing Facility				
18	94-939	Gasoline Storage Tank and Dispensing Facility	30,000 gallons (714 bbls)	1993

Table notes:

1. The emergency fire water pump is considered an insignificant emission unit on an emission rate basis under 18 AAC 50.326(e). However, the engine is listed in the table because it is subject to the requirements of 40 CFR 60 Subpart IIII. For NSPS Subpart IIII purposes, the model year of EU ID 12a is 2009 per 40 CFR 1068.240.

[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 11, 12a, 13, and 21 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

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

1.1. For EU IDs 1 through 5 and 21, burn only gas as fuel. In each operating report under Condition 60 indicate whether each of these emissions units burned only gas during the period covered by the report. Report under Condition 59 if any fuel other than gas is burned in any of these emissions units.

1.2. For each of EU IDs 6 through 11, 12a, and 13, as long as actual emissions from the emissions unit are less than the significant emissions thresholds listed in 18 AAC 50.326(e) during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 61 with the visible emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 60 if any of EU IDs 6 through 11, 12a, and 13 reaches any of the significant emissions thresholds listed in 18 AAC 50.326(e) and monitor, record, and report in accordance with Conditions 2 through 4 for the remainder of the permit term for that emissions unit.

1.3. For each of EU IDs 9 and 13, as long as the emissions unit does not exceed the limit in Condition 16, monitoring shall consist of an annual compliance certification under Condition 61 for the visible emissions standard based on reasonable inquiry. Otherwise, comply with Condition 1.2.

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

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

Liquid Fuel-Burning Equipment

2. Visible Emissions Monitoring. When required by any of Conditions 1.2 and 1.3, or in the event of replacement[1] during the permit term, the Permittee shall observe the exhaust of EU IDs 6 through 11, 12a, and 13 for visible emissions using the Method 9 Plan under Condition 2.1.

2.1. **Method 9 Plan.** For all observations in this plan, observe emissions unit exhaust, following 40 CFR 60, Appendix A-4, Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations.[2]

[1] "*Replacement*," as defined in 40 CFR 51.166(b)(32).
[2] Visible emissions observations are not required during emergency operations.

a. First Method 9 Observation. Observe the exhaust of EU IDs 6 through 11, 12a, and 13 according to the following criteria:

(i) For any unit replaced, observe exhaust within 60 days of the newly installed emissions unit becoming fully operational.[3] Except as provided in Condition 2.1.b, after the first Method 9 observation comply with Conditions 1.2 and 1.3 as applicable.

(ii) For each of EU IDs 6 through 11, 12a, and 13, observe the exhaust of the emissions unit within 30 days after the end of the calendar month during which monitoring was triggered under Conditions 1.2 or 1.3; or for an emissions unit with intermittent operations, within the first 30 days during the unit's next scheduled operation.

b. Increased Method 9 Frequency. If a six-consecutive-minute average opacity is observed during the most recent set of observations to be greater than 15 percent and one or more individual observations are greater than 20 percent, conduct Method 9 observations on that emissions unit at least once in each calendar month that the emissions unit operates until three consecutive observations show that the visible emissions no longer exceed these thresholds.

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

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

3.1. For all Method 9 observations,

a. the observer shall record the following:

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

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

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

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

[3] "*Fully operational*" means upon completion of all functionality checks and commissioning after unit installation. "*Installation*" is complete when the unit is ready for functionality checks to begin.

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

b. To determine the six-consecutive-minute average opacity,

(i) divide the observations recorded on the record sheet into sets of 24 consecutive observations;

(ii) sets need not be consecutive in time and in no case shall two sets overlap;

(iii) for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; and

(iv) record the average opacity on the sheet.

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

3.2. The records required by Condition 3.1 may be kept in electronic format.

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

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

4.1. Include in each operating report required under Condition 60 for the period covered by the report:

a. for all Method 9 Plan observations:

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

(ii) a summary to include:

(A) number of days observations were made;

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

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

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

4.2. Report under Condition 59:

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

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

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

Particulate Matter (PM) Emissions Standard

5. Industrial Process and Fuel-Burning Equipment PM Emissions. The Permittee shall not cause or allow particulate matter emitted from EU IDs 1 through 11, 12a, 13, and 21 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

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

5.1. For each of EU IDs 9 and 13, as long as the emissions unit does not exceed the limit in Condition 16, monitoring shall consist of an annual compliance certification under Condition 61 for the particulate matter emissions standard based on reasonable inquiry. Otherwise, comply with Condition 5.2.

5.2. For each of EU IDs 6 through 11, 12a, and 13, as long as actual emissions from the emissions unit are less than the significant emissions thresholds listed in 18 AAC 50.326(e) during any consecutive 12-month period, monitoring shall consist of an annual compliance certification under Condition 61 for the particulate matter emissions standard based on reasonable inquiry. The Permittee shall report in the operating report under Condition 60 if any of EU IDs 6 through 11, 12a, and 13 reaches any of the significant emissions thresholds and monitor, record and report in accordance with Conditions 6 through 8 for the remainder of the permit term for that emissions unit.

5.3. For EU IDs 1 through 5 and 21, the Permittee shall comply with Condition 1.1.

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

PM MR&R

Liquid Fuel-Burning Engines

6. PM Monitoring. The Permittee shall conduct source tests on EU IDs 6 through 11, 12a, and 13, to determine the concentration of PM in the exhaust of each emissions unit as follows:

6.1. If the result of any Method 9 observation conducted under Condition 2.1 for any of EU IDs 6 through 11, 12a, and 13 is greater than the criteria of Condition 6.2.a or Condition 6.2.b, the Permittee shall, within six months of that Method 9 observation, either:

a. take corrective action and observe the emissions unit exhaust under load conditions comparable to those when the criteria were exceeded, following 40 CFR 60, Appendix A-4 Method 9 for 18 minutes to obtain 72 consecutive 15-second opacity observations, to show that emissions are no longer greater than the criteria of Condition 6.2; or

b. except as exempted in Condition 6.4, conduct a PM source test according to requirements set out in Section 6.

6.2. Take corrective action or conduct a PM source test, in accordance with Condition 6.1, if any Method 9 observation under Condition 2.1 results in an 18-minute average opacity greater than

a. 20 percent for an emissions unit with an exhaust stack diameter that is equal to or greater than 18 inches; or

b. 15 percent for an emissions unit with an exhaust stack diameter that is less than 18 inches, unless the Department has waived this requirement in writing.

6.3. During each one-hour particulate matter source test run under Condition 6.1.b, observe the emissions unit exhaust for 60 minutes in accordance with Method 9 and calculate the highest 18-consecutive-minute average opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.

6.4. The PM source test requirements in Condition 6.1.b are waived for an emissions unit if

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

b. corrective action was taken to reduce visible emissions and two consecutive 18-minute Method 9 visible emissions observations (as described in Condition 2.1) conducted thereafter within a six-month period show visible emissions less than the threshold in Condition 6.2.

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

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

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

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

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

8.1. Notify the Department of any Method 9 observation results that are greater than the threshold of either Condition 6.2.a or Condition 6.2.b within 30 days of the end of the month in which the observations occurred. Include the dates, EU ID(s),

and results when an observed 18-minute average opacity was greater than an applicable threshold in Condition 6.2.

8.2. In each operating report under Condition 60, include:

a. a summary of the results of any PM source test and visible emissions observations conducted under Condition 6; and

b. copies of any visible emissions observation results greater than the thresholds of Condition 6.2, if they were not already submitted.

8.3. Report in accordance with Condition 59:

a. anytime the results of a PM source test exceed the PM emissions standard in Condition 5; or

b. if the requirements under Condition 6.1 were triggered and the Permittee did not comply on time with either Condition 6.1.a or 6.1.b. Report the deviation within 24 hours of the date compliance with Condition 6.1 was required.

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

Sulfur Compound Emissions Standard

9. Sulfur Compound Emissions. The Permittee shall not cause or allow sulfur compound emissions, expressed as SO_2, from EU IDs 1 through 11, 12a, 13, and 21 to exceed 500 ppm averaged over three hours.

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

Sulfur Compound MR&R

Fuel Oil[4] (EU IDs 6 through 11, 12a, and 13)

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

10.1. Comply with either Condition 10.1.a or Condition 10.1.b:

a. For each shipment of fuel:

(i) If the fuel grade requires a sulfur content 0.5 percent by weight ($wt\%S_{fuel}$) or less, keep receipts that specify fuel grade and amount; or

(ii) If the fuel grade does not require a sulfur content 0.5 $wt\%S_{fuel}$ or less, keep receipts that specify fuel grade and amount, and

(A) test the fuel for sulfur content; or

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

(B) obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent; or

b. Test the sulfur content of the fuel in each storage tank that supplies fuel to EU IDs 6 through 11, 12a, and 13 at least monthly.

10.2. Fuel testing under Condition 10.1.a or Condition 10.1.b must follow an appropriate method listed in 18 AAC 50.035(b)-(c) or 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

10.3. If a shipment of fuel contains greater than 0.75 wt%S_{fuel} or if the results of a fuel sulfur content test indicate that the fuel contains greater than 0.75 wt%S_{fuel}, the Permittee shall calculate SO_2 emissions in parts per million (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)(3).

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

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

11.1. If SO_2 emissions calculated under Condition 10.3 exceed 500 ppm, the Permittee shall report in accordance with Condition 59. When reporting under this condition, include the calculation under Condition 10.3.

11.2. The Permittee shall include in the operating report required by Condition 60 for each month covered by the report:

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

b. for any fuel received with a fuel sulfur content greater than 0.5 wt%S_{fuel}, the fuel sulfur content of the shipment;

c. the results of all fuel sulfur analyses conducted under Condition 10.1.a or Condition 10.1.b and documentation of the method(s) used to complete the analyses; and

d. for any fuel received with a sulfur content greater than 0.75 wt%S_{fuel}, the SO_2 emissions in ppm calculated under Condition 10.3.

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

Fuel Gas (EU IDs 1 through 5 and 21)

12. Sulfur Compound Monitoring. The Permittee shall either

12.1. obtain a semiannual statement from the fuel supplier of the fuel total sulfur level in ppm; or

12.2. analyze a representative sample of the fuel semiannually to determine the sulfur content using either ASTM D4084, D5504, D4810, D4913, D6228 or GPA

Standard 2377, or other listed method approved in 18 AAC 50.035(b)-(c) or 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).

13. Sulfur Compound Recordkeeping. The Permittee shall keep records of the statement from the fuel supplier or the sulfur content analysis required under Condition 12.1 or 12.2.

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

14.1. Report as excess emissions, in accordance with Condition 59, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 9.

14.2. Include copies of the records required by Condition 13 with the operating report required by Condition 60 for the period covered by the report.

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

North Slope Liquid Fuel (EU IDs 6 through 11, 12a, and 13)

15. Sulfur Compound Emissions MR&R. For liquid fuel from a North Slope topping plant, the Permittee shall comply with the following:

15.1. Obtain from the topping plant the results of a monthly fuel sulfur analysis;

15.2. Include in the operating report required by Condition 60 a list of the sulfur content measured for each month covered by the report; and

15.3. Report under Condition 59 if the sulfur content for any month exceeds 0.75 $wt\%S_{fuel}$.

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

Owner Requested Limit (ORL)

16. The Permittee shall not operate EU IDs 1 through 3, 6 through 11, and 13 for more than 500 hours per calendar year, per emission unit.

[Condition 19, Operating Permit AQ0274TVP01, 12/30/2010]
[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]

16.1. The Permittee shall monitor and record the total number of hours of operation that EU IDs 1 through 3, 6 through 11, and 13 operate each month.

16.2. The Permittee shall, each month, calculate and record the total number of hours of operation that each of EU IDs 1 through 3, 6 through 11, and 13 operated for the present calendar year.

16.3. Report under Condition 59 whenever the total number of hours that one or more of EU IDs 1 through 3, 6 through 11, and 13 operate in any calendar year exceeds 500 hours, per emission unit.

16.4. Report in the operating report, required under Condition 60, the number of hours and the calendar year total that each of EU IDs 1 through 3, 6 through 11, and 13 operates during each month in the calendar year.

[Conditions 19.1 through 19.4, Operating Permit AQ0274TVP01, 12/30/2010]
[40 CFR 71.6(a)(3)]

Insignificant Emissions Units

17. 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:

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

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

17.2. **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)]

17.3. **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)]

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

a. Submit the compliance certifications of Condition 61 based on reasonable inquiry;

b. Comply with the requirements of Condition 42;

c. Report in the operating report required by Condition 60 if an emissions unit has historically been classified as insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and current actual emissions have become greater than any of those thresholds; and

d. No other monitoring, recordkeeping or reporting is required for insignificant emissions units to demonstrate compliance with the emissions standards under Conditions 17.1, 17.2, and 17.3.

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

Section 4. Federal Requirements

40 CFR Part 60 New Source Performance Standards

Subpart A

18. New Source Performance Standards (NSPS) Subpart A Notification. Unless exempted by a specific subpart, for any affected facility[5] or existing facility[6] regulated under NSPS requirements in 40 CFR 60, the Permittee shall furnish the Administrator written notification or, if acceptable to both the Administrator[7] 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]

18.1. 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]

18.2. 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]

18.3. 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]

18.4. 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:

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

[6] *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.

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

[40 CFR 60.15(d), Subpart A]

a. the name and address of owner or operator,

b. the location of the existing facility,

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

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

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

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

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

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

19. NSPS Subpart A Concealment of Emissions. The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Condition 20. 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 IIII

20. NSPS Subpart IIII Applicability. For EU ID 12a, comply with the following applicable requirements of NSPS Subpart IIII.

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

NSPS Subpart IIII Emission Standards

20.1. Owners and operators of fire pump engines must comply with the emission standards in Table B, for all pollutants.

[40 CFR 71.6(a)(1)]
[40 CFR 60.4205(c), Subpart IIII]

Table B - Engine Emission Standards in g/kW-hr (g/hp-hr)

EU ID	NMHC + NOx	CO	PM
12a	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)

[Table 4, Subpart IIII]

20.2. Owners and operators of emergency stationary CI ICE who conduct performance tests in-use must meet the not-to-exceed standards as indicated in 40 CFR 60.4212.

[40 CFR 71.6(a)(3)(i)]
[40 CFR 60.4205(e), Subpart IIII]

20.3. Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in Condition 20.1 over the entire life of the engine.

[40 CFR 71.6(a)(1)]
[40 CFR 60.4206, Subpart IIII]

NSPS Subpart IIII Fuel Requirements

20.4. Owners and operators of stationary CI ICE that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 1090.305 for nonroad diesel fuel.

[40 CFR 71.6(a)(1)]
[40 CFR 60.4207(b), Subpart IIII]

NSPS Subpart IIII Monitoring Requirements

20.5. You must install a non-resettable hour meter prior to startup of the engine.

[40 CFR 71.6(a)(3)(i)]
[40 CFR 60.4209(a), Subpart IIII]

20.6. The Permittee must do all of the following, except as permitted under Condition 20.9:

[40 CFR 71.6(a)(1)]
[40 CFR 60.4211(a), Subpart IIII]

a. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

b. Change only those emission-related settings that are permitted by the manufacturer; and

c. Meet the requirements of 40 CFR part 1068, as they apply to you.

[40 CFR 60.4211(a)(1) through (3), Subpart IIII]

20.7. The Permittee must comply with the emission standards in Condition 20.1 by purchasing an engine certified to the emission standards in Condition 20.1. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in Condition 20.9.

[40 CFR 71.6(a)(3)(i)]
[40 CFR 60.4211(c), Subpart IIII]

20.8. If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in Conditions 20.8.a through 20.8.c. In order for the engine to be considered an emergency stationary

ICE under NSPS Subpart IIII, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in Conditions 20.8.a through 20.8.c, is prohibited. If you do not operate the engine according to the requirements in Conditions 20.8.a through 20.8.c, the engine will not be considered an emergency engine under NSPS Subpart IIII and must meet all requirements for non-emergency engines.

[40 CFR 71.6(a)(1)]
[40 CFR 60.4211(f), Subpart IIII]

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

b. You may operate your emergency stationary ICE for the purposes specified in Condition 20.8.b(i) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 20.8.c counts as part of the 100 hours per calendar year allowed by this condition.

[40 CFR 60.4211(f)(1) & (2), Subpart IIII]

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

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

c. Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Condition 20.8.b.

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

20.9. If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

[40 CFR 71.6(a)(1)]
[40 CFR 60.4211(g), Subpart IIII]

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

[40 CFR 60.4211(g)(2), Subpart IIII]

NSPS Subpart IIII Test Methods and Other Procedures

20.10. Owners and operators who conduct performance tests pursuant to NSPS Subpart IIII must do so according to 40 CFR 60.4212.

[40 CFR 71.6(a)(3)(i)]
[40 CFR 60.4212, Subpart IIII]

NSPS Subpart IIII Recordkeeping Requirements

20.11. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 60.4214(b), Subpart IIII]

NSPS Subpart IIII General Requirements

20.12. The Permittee shall comply with the applicable provisions of NSPS Subpart A as specified in Table 8 to NSPS Subpart IIII.

[40 CFR 71.6(a)(1)]
[40 CFR 60.4218 & Table 8, Subpart IIII]

40 CFR Part 61 National Emission Standards for Hazardous Air Pollutants

Subparts A & M

21. 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, & Appendix A]

40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants

Subpart A

22. For EU IDs 6 through 11 and 13, comply with the applicable requirements of 40 CFR 63 Subpart A in accordance with the provisions for applicability of Subpart A in NESHAP Subpart ZZZZ, Table 8.

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

23. For EU ID 18, 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 3 to NESHAP Subpart CCCCCC.

[18 AAC 50.040(j) & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.11130 & Table 3, Subpart ZZZZ]

Subpart ZZZZ

24. **NESHAP Subpart ZZZZ Applicability**. For EU IDs 6 through 11, 12a, and 13, comply with the following applicable requirements of NESHAP Subpart ZZZZ.

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

24.1. For EU ID 12a, the Permittee must meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the applicable requirements of NSPS Subpart IIII as outlined in Condition 20. No further requirements apply under 40 CFR 63 Subpart ZZZZ.

[18 AAC 50.040(c)(23), 50.040(j)(4) & 50.326(j)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.6590(c), Subpart ZZZZ]

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

24.2. For EU IDs 6, 8, 10, and 11, the Permittee shall comply with the following:

[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;

(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 24.2.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.

[40 CFR 63.6603(a) & Table 2d, Item 4, Subpart ZZZZ]

24.3. For EU IDs 7, 9, and 13, the Permittee shall comply with the following:

[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;

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

[40 CFR 63.6603(a) & Table 2d, Item 1, Subpart ZZZZ]

24.4. For EU IDs 6 through 11 and 13:

[40 CFR 71.6(a)(1)]

a. 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]

b. You have the option of utilizing an oil analysis program in order to extend the specified oil change requirements in Conditions 24.2.a and 24.3.a. The oil analysis must be performed at the same frequency specified for changing the oil in Conditions 24.2.a and 24.3.a. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 business days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 business days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

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

NESHAP Subpart ZZZZ General Requirements

24.5. For EU IDs 6 through 11 and 13, the Permittee shall comply with the following:

[40 CFR 71.6(a)(1)]

a. You must be in compliance with the emission limitations, operating limitations, and other requirements in NESHAP Subpart ZZZZ that apply to you at all times.

[40 CFR 63.6605(a), Subpart ZZZZ]

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(b), Subpart ZZZZ]

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

24.6. The Permittee must install a non-resettable hour meter on EU IDs 6, 8, 10, and 11 if one is not already installed.

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

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

24.7. For EU IDs 6 through 11 and 13, the Permittee shall comply with the following:

[40 CFR 71.6(a)(3)]

a. You must demonstrate continuous compliance with each requirement in Conditions 24.2.a and 24.3.a according to methods specified in Condition 24.7.a(i) or 24.7.a(ii).

[40 CFR 63.6640(a), Subpart ZZZZ]

(i) Operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(ii) 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]

b. You must also 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]

24.8. For EU IDs 6, 8, 10, and 11, the Permittee shall comply with the following:

a. You must operate the emergency stationary RICE according to the requirements in Conditions 24.8.a(i) through 24.8.a(iii). 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, and operation in non-emergency situations for 50 hours per year, as described in Conditions 24.8.a(i) through 24.8.a(iii), is prohibited. If you do not operate the engine according to the requirements in Conditions 24.8.a(i) through 24.8.a(iii), 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]

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose specified in Condition 24.8.a(ii)(A) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by Condition 24.8.a(iii) counts as part of the 100 hours per calendar year allowed by this condition.

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

(A) 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 EPA 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]

(iii) 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 24.8.a(ii). The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response.

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

NESHAP Subpart ZZZZ Reporting Requirements

24.9. For EU IDs 6 through 11 and 13, the Permittee must report all deviations as defined in NESHAP Subpart ZZZZ in the operating report required by Condition 60.

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

NESHAP Subpart ZZZZ Recording Requirements

24.10. For EU IDs 6 through 11 and 13, the Permittee shall comply with the following:

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

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]

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

[40 CFR 63.6660(a), Subpart ZZZZ]

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.

[40 CFR 63.6660(b), Subpart ZZZZ]

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(c), Subpart ZZZZ]

24.11. For EU IDs 6, 8, 10, and 11, the Permittee must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The Permittee must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

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

Subpart CCCCCC

25. For EU ID 18, the Permittee shall comply with the following applicable requirements of NESHAP Subpart CCCCCC.

[18 AAC 50.040(c)(35), 18 AAC 50.040(j)(4) & 50.326(j)(4)]
[40 CFR 71.6(a)(1)]
[40 CFR 63.11111(d) & 63.11111(i), Subpart CCCCCC]

NESHAP Subpart CCCCCC Emission Limitations and Management Practices

25.1. You must, at all times, 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. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

[40 CFR 71.6(a)(1)]
[40 CFR 63.11115(a), Subpart CCCCCC]

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

[40 CFR 71.6(a)(1)]
[40 CFR 63.11116(a), 63.11117(a), & 63.11118(a), Subpart CCCCCC]

a. Minimize gasoline spills;

b. Clean up spills as expeditiously as practicable;

c. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

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

[40 CFR 63.11116(a)(1) through (4), Subpart CCCCCC]

25.3. You must only load gasoline into storage tanks at your facility by utilizing submerged filling[8] and as specified in Condition 25.3.a or 25.3.b. The distance in Condition 25.3.a shall be measured from the point in the opening of the submerged fill pipe that is the greatest distance from the bottom of the storage tank.

[40 CFR 71.6(a)(1)]
[40 CFR 63.11118(a) & 63.11117(b), Subpart CCCCCC]

a. Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the tank.

b. Submerged fill pipes not meeting the specifications of Condition 25.3.a are allowed if the owner or operator can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe. Documentation providing such demonstration must be made available for inspection by the Administrator's delegated representative during the course of a site visit.

[40 CFR 63.11117(b)(1) & (3), Subpart CCCCCC]

25.4. You must install and operate a vapor balance system on your gasoline storage tanks that meets the design criteria in Conditions 25.4.a through 25.4.h on or before October 1, 2016.

[40 CFR 71.6(a)(1)]
[40 CFR 63.11113(c), 63.11118(b) & (b)(1), & Table 1, Item 1; Subpart CCCCCC]

a. All vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect.

b. The vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight, as defined in 40 CFR 63.11132.

c. The vapor balance system shall be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.

[8] *Submerged filling* means, for the purposes of this subpart, the filling of a gasoline storage tank through a submerged fill pipe whose discharge is no more than the applicable distance specified in Conditions 25.3.a and 25.3.b from the bottom of the tank. Bottom filling of gasoline storage tanks is included in this definition.

d. The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.

e. If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as specified in Condition 25.3.

f. Liquid fill connections for all systems shall be equipped with vapor-tight caps.

g. Pressure/vacuum (PV) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall be: a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.

h. The vapor balance system shall be capable of meeting the static pressure performance requirement of the equation in Item 1(h) in Table 1 to Subpart CCCCCC.

[Table 1, Item 1(a) through (h); 40 CFR 63 Subpart CCCCCC]

NESHAP Subpart CCCCCC Testing and Monitoring Requirements

25.5. Each owner or operator, at the time of installation of a vapor balance system required under Condition 25.4, and every 3 years thereafter, must comply with the requirements in Condition 25.5.a and 25.5.b.

[40 CFR 71.6(a)(3)(i)]
[40 CFR 63.11113(e)(2)(ii), 63.11118(e), & 63.11120(a), Subpart CCCCCC]

a. You must demonstrate compliance with the leak rate and cracking pressure requirements, specified in Condition 25.4.g, for pressure-vacuum vent valves installed on your gasoline storage tanks using the test methods identified in 40 CFR 63.11120(a)(1)(i) or (a)(1)(ii).

[40 CFR 63.11120(a)(1), Subpart CCCCCC]

b. You must demonstrate compliance with the static pressure performance requirement specified in Condition 25.4.h for your vapor balance system by conducting a static pressure test on your gasoline storage tanks using the test methods identified in 40 CFR 63.11120(a)(2)(i), (a)(2)(ii), or (a)(2)(iii).

[40 CFR 63.11120(a)(2), Subpart CCCCCC]

25.6. Each owner or operator choosing, under the provisions of 40 CFR 63.6(g), to use a vapor balance system other than that described in Condition 25.4 must demonstrate to the Administrator the equivalency of their vapor balance system to that described in Condition 25.4 using the procedures specified in Conditions 25.6.a through 25.6.c.

[40 CFR 71.6(a)(3)(i)]
[40 CFR 63.11120(b), Subpart CCCCCC]

a. You must demonstrate initial compliance by conducting an initial performance test on the vapor balance system to demonstrate that the vapor balance system achieves 95 percent reduction using the California Air Resources Board Vapor Recovery Test Procedure TP-201.1,—Volumetric Efficiency for Phase I Vapor Recovery Systems, adopted April 12, 1996, and amended February 1, 2001, and October 8, 2003, (incorporated by reference, see 40 CFR 63.14).

b. You must, during the initial performance test required under Condition 25.6.a, determine and document alternative acceptable values for the leak rate and cracking pressure requirements specified in Condition 25.4.g and for the static pressure performance requirement in Condition 25.4.h.

c. You must comply with the testing requirements specified in Condition 25.5.

[40 CFR 63.11120(b)(1) through (3), Subpart CCCCCC]

25.7. **Conduct of performance tests**. Performance tests conducted for NESHAP Subpart CCCCCC shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance (i.e., performance based on normal operating conditions) of the affected source. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

[40 CFR 71.6(a)(3)(i)]
[40 CFR 63.11120(c), Subpart CCCCCC]

NESHAP Subpart CCCCCC Notifications

25.8. You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the Department, in accordance with the schedule specified in 40 CFR 63.9(h). The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of NESHAP Subpart CCCCCC, and must indicate whether the facility's throughput is determined based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks.

[40 CFR 71.6(a)(3)(iii)]
[40 CFR 63.11118(f) & 63.11124(b)(2), Subpart CCCCCC]

25.9. You must submit a Notification of Performance Test, as specified in 40 CFR 63.9(e), prior to initiating testing required by Condition 25.5.

[40 CFR 71.6(a)(3)(iii)]
[40 CFR 63.11118(f) & 63.11124(b)(4), Subpart CCCCCC]

25.10. You must submit additional notifications specified in 40 CFR 63.9, as applicable.

[40 CFR 71.6(a)(3)(iii)]
[40 CFR 63.11118(f) & 63.11124(b)(5), Subpart CCCCCC]

NESHAP Subpart CCCCCC Recordkeeping

25.11. Each owner or operator must keep records of all tests performed under Condition 25.5. The records shall be kept for a period of 5 years and shall be made available for inspection by the Administrator's delegated representatives during the course of a site visit.

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.11118(g) & 63.11125(a) & (b), Subpart CCCCCC]

25.12. Each owner or operator shall keep records:

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.11118(g), 63.11125(d), & 63.11115(b), Subpart CCCCCC]

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

b. of actions taken during periods of malfunction to minimize emissions in accordance with Condition 25.1, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[40 CFR 63.11125(d)(1) & (2), Subpart CCCCCC]

25.13. An affected source shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon or the 100,000-gallon threshold level, as applicable. Recordkeeping to document monthly throughput must begin on January 10, 2008. Records required under this paragraph shall be kept for a period of 5 years.

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.11111(e), Subpart CCCCCC]

25.14. You must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

[40 CFR 71.6(a)(3)(ii)]
[40 CFR 63.11117(d), Subpart CCCCCC]

NESHAP Subpart CCCCCC Reporting

25.15. Report to the Administrator the results of all volumetric efficiency tests required under Condition 25.6. Reports submitted under this condition must be submitted within 180 days of the completion of the performance testing.

[40 CFR 71.6(a)(3)(iii)]
[40 CFR 63.11118(g) & 63.11126(a), Subpart CCCCCC]

25.16. Each owner or operator of an affected source under NESHAP Subpart CCCCCC shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with Condition 25.1, including actions taken to

correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred.

[40 CFR 71.6(a)(3)(iii)]
[40 CFR 63.11118(g) & 63.11126(b), Subpart CCCCCC]

40 CFR Part 82 Protection of Stratospheric Ozone

Subparts F, G, & H

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

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

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

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

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

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

NESHAP Applicability Determination Requirements

29. 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)]

29.1. 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]

30. 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)]

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

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

Section 5. General Conditions

Standard Terms and Conditions

32. 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)]

33. 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)]

34. 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)]

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

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

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

36.1. potential to emit of 219.14 tpy; or

36.2. projected annual rate of emissions, in tpy, based upon actual annual emissions for the most recent calendar year, or another 12-month period approved in writing by the Department, when demonstrated by credible evidence of actual emissions, based upon the most representative information available from one or more of the following methods:

a. an enforceable test method described in 18 AAC 50.220;

b. material balance calculations;

c. emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035; or

d. other methods and calculations approved by the Department, including appropriate vendor-provided emissions factors when sufficient documentation is provided.

[18 AAC 50.040(j)(4), 50.035, 50.326(j)(1) & (3), 50.346(b)(1), 50.410, & 50.420]

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

37.1. No later than March 31st of each year, the Permittee may submit an estimate of the stationary source's assessable emissions as determined in Condition 36.2. Submit actual emissions estimates in accordance with the submission instructions on the Department's Standard Permit Conditions web page at http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-i-submission-instructions/.

37.2. The Permittee shall include with the assessable emissions report all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates.

37.3. If the stationary source has not commenced construction or operation on or before March 31st, the Permittee may submit to the Department's Anchorage office a waiver letter certified under 18 AAC 50.205 that states the stationary source's actual annual emissions for the previous calendar year are zero tpy and provides estimates for when construction or operation will commence.

37.4. If no estimate or waiver letter is submitted on or before March 31st of each year, emission fees for the next fiscal year will be based on the potential to emit in Condition 36.1.

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

38. Good Air Pollution Control Practice (GAPCP). The Permittee shall do the following for EU IDs 1 through 5 and 21:

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

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

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

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

39. 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)]

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

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

40.1. 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 40.1.a or to address the results of Department inspections that found potential problems; and

(ii) to prevent future dust problems.

40.2. The Permittee shall report according to Condition 42.3.

41. 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)]

42. 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)(4) & 50.346(a)]
[40 CFR 71.6(a)(3)]

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

a. As soon as practicable after becoming aware of a complaint that is attributable to emissions from the stationary source, the Permittee shall investigate the complaint to identify emissions that the Permittee believes have caused or are causing a violation of Condition 42.

b. The Permittee shall initiate and complete corrective action necessary to eliminate any violation identified by a complaint or investigation as soon as practicable if

(i) after an investigation because of a complaint or other reason, the Permittee believes that emissions from the stationary source have caused or are causing a violation of Condition 42; or

(ii) the Department notifies the Permittee that it has found a violation of Condition 42.

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

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

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

(iii) a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 42; and

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

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

a. With each stationary source operating report under Condition 60, the Permittee shall include a brief summary report which must include the following for the period covered by the report:

(i) the number of complaints received;

(ii) the number of times the Permittee or the Department found corrective action necessary;

(iii) the number of times action was taken on a complaint within 24 hours; and

(iv) the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.

b. The Permittee shall notify the Department of a complaint that is attributable to emissions from the stationary source within 24 hours after receiving the complaint, unless the Permittee has initiated corrective action within 24 hours of receiving the complaint.

c. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 59.

43. 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[9] listed in Condition 20 or 26 (refrigerants),

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

43.2. report in accordance with Condition 59; 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

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

44.1. Keep written records to demonstrate compliance with the limitations in this condition and the requirements of 18 AAC 50.065. Submit copies of the records to the Department upon request.

[9] 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.

44.2. Include this condition in the annual certification required under Condition 61.

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

Section 6. General Source Testing and Monitoring Requirements

45. 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)]

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

[18 AAC 50.220(b)]

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

46.2. 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.

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

47.1. 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]

47.2. 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]

47.3. 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]

47.4. 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)]

47.5. 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]

47.6. 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]

47.7. 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]

48. 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)]

49. Test Exemption. Compliance with Conditions 51, 52 and 53 is not required for Method 9 Plan (Condition 2.1) observations.

[18 AAC 50.345(a)]

50. 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)]

51. Test Plans. Except as provided in Condition 49, 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 45 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)]

52. Test Notification. Except as provided in Condition 49, 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)]

53. Test Reports. Except as provided in Condition 49, 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 56. 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)]

54. Particulate Matter Calculations. In source testing for compliance with the particulate matter standards in Conditions 5 and 17.2, 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

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

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

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

a. calibration and maintenance records, original strip chart or computer-based recordings for continuous monitoring instrumentation;

b. the date, place, and time of sampling or measurements;

c. the date(s) analyses were performed;

d. the company or entity that performed the sampling and analyses;

e. the analytical techniques or methods used in the analyses;

f. the results of such analyses; and,

g. the operating conditions that existed at the time of sampling or measurement.

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

Reporting Requirements

56. 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.

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

a. uses a security procedure, as defined in AS 09.80.190, that the Department has approved; and

b. accepts or agrees to be bound by an electronic record executed or adopted with that signature.

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

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

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

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

58. 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)]

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

59.1. **Excess Emissions Reporting**. Except as provided in Condition 42, the Permittee shall report all emissions or operations that exceed emissions standards or limits of this permit as follows:

a. In accordance with 18 AAC 50.240(c), as soon as possible, report

(i) excess emissions that present a potential threat to human health or safety; and

(ii) excess emissions that the Permittee believes to be unavoidable.

b. In accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or nonroutine repair that causes emissions in excess of a technology-based emission standard.

c. If a continuous or recurring excess emissions is not corrected within 48 hours of discovery, report within 72 hours of discovery unless the Department provides written permission to report under Condition 59.1.d.

d. Report all other excess emissions not described in Conditions 59.1.a, 59.1.b, and 59.1.c within 30 days after the end of the month during which the excess emissions occurred or as part of the next routine operating report in Condition 60 for excess emissions that occurred during the period covered by the report, whichever is sooner.

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

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

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

a. Report according to the required deadline for failure to monitor, as specified in other applicable conditions of this permit (Conditions 4.2.b and 8.3.b).

b. Report all other permit deviations within 30 days after the end of the month during which the deviation occurred or as part of the next routine operating report in Condition 60 for permit deviations that occurred during the period covered by the report, whichever is sooner.

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

59.3. **Notification Form**. When reporting either excess emissions or permit deviations, the Permittee shall report using either the Department's online form, which can be found at the Division of Air Quality's Air Online Services (AOS) system webpage http://dec.alaska.gov/applications/air/airtoolsweb using the Permittee Portal option, or, if the Permittee prefers, the form contained in Section 13 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department's Standard Permit Conditions webpage found at http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/.

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

60. Operating Reports. During the life of this permit[10], the Permittee shall submit to the Department an operating report in accordance with Conditions 56 and 57 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.

60.1. 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.

60.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 60.1, the Permittee shall identify

a. the date of the excess emissions or permit deviation;

b. the equipment involved;

c. the permit condition affected;

d. a description of the excess emissions or permit deviation; and

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

e. any corrective action or preventive measures taken and the date(s) of such actions; or

60.3. when excess emissions or permit deviation reports have already been reported under Condition 59 during the period covered by the operating report, the Permittee shall either

a. include a copy of those excess emissions or permit deviation reports with the operating report; or

b. cite the date(s) of those reports.

60.4. The operating report must include, for the period covered by the report, a listing of emissions monitored under Conditions 2.1.b and 6.2 which trigger additional testing or monitoring, whether or not the emissions monitored exceed an emission standard. The Permittee shall include in the report.

a. the date of the emissions;

b. the equipment involved;

c. the permit condition affected; and

d. the monitoring result which triggered the additional monitoring.

60.5. **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)]

61. Annual Compliance Certification. Each year by March 31, compile and submit to the Department an annual compliance certification report according to Condition 57.

61.1. 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.

61.2. **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.

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

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

62. Emission Inventory Reporting. The Permittee shall submit to the Department reports of actual emissions for the previous calendar year, by emissions unit, of CO, NH_3, NOx, PM_{10}, $PM_{2.5}$, SO_2, VOC and lead (Pb) and lead compounds, as follows:

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

a. 250 tons per year (tpy) of NH_3, PM_{10}, $PM_{2.5}$ or VOC; or

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

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

a. For stationary sources located in Attainment and Unclassifiable Areas:

(i) 0.5 tpy of actual Pb, or

(ii) 1,000 tpy of CO; or

(iii) 100 tpy of SO_2, NH_3, PM_{10}, $PM_{2.5}$, NOx or VOCs.

b. For stationary sources located in Nonattainment Areas:

(i) 0.5 tpy of actual Pb, or

(ii) 1,000 tpy of CO or, when located in a CO nonattainment area, 100 tpy of CO; or

(iii) 100 tpy of SO_2, NH_3, PM_{10}, $PM_{2.5}$, NOx, or VOC; or as specified in Conditions 62.2.b(iv) through 62.2.b(viii):

(iv) 70 tpy of SO_2, NH_3, $PM_{2.5}$, NOx, or VOC in $PM_{2.5}$ serious nonattainment; or

(v) 70 tpy of PM_{10} in PM_{10} serious nonattainment areas; or

(vi) 50 tpy of NOx or VOC in O_3 serious nonattainment areas; or

(vii) 25 tpy of NOx or VOC in O_3 severe nonattainment areas; or

(viii) 10 tpy of NOx or VOC in O_3 extreme nonattainment areas.

62.3. For reporting under Condition 62.2, the Permittee shall report the annual emissions and the required data elements under Condition 62.4 every third year for the previous calendar year as scheduled by the EPA.[11]

62.4. For each emissions unit and the stationary source, include in the report the required data elements[12] contained within the form included in the Emission Inventory Instructions available at the Department's AOS system on the Point Source Emission Inventory webpage at http://dec.alaska.gov/Applications/Air/airtoolsweb/PointSourceEmissionInventory

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

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

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

63.1. **Reports**. Except for previously submitted reports and federal reports and notices submitted through EPA's Central Data Exchange (CDX) and Compliance and Emissions Data Reporting Interface (CEDRI) online reporting system, attach to the operating report required by Condition 60 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)]

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

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

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

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

Section 8. Permit Changes and Renewal

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

64.1. 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;

64.2. The information shall be submitted to the Part 70 Operating Permit Program, US EPA Region 10, Air Permits and Toxics Branch, Mail Stop: 15-H13, 1200 Sixth Avenue, Suite 155, Seattle, WA 98101-3188;

64.3. 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

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

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

65. 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)]

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

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

66.2. 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;

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

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

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

[40 CFR 71.6(a)(12)]

67. Operational Flexibility. CAA Section 502(b)(10)[13] changes may be made within the permitted stationary source without a permit revision, if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions): Provided, that the Permittee provides EPA and the Department with written notification no less than seven days in advance of the proposed change.

67.1. For each such change, the notification required by Condition 67 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.

67.2. The permit shield described in 40 CFR 71.6(f) shall not apply to any change made pursuant to Condition 67.

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

68. Permit Renewal. To renew this permit, the Permittee shall submit to the Department[14] 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]. Provide a copy of the application to EPA as required under Condition 64. The renewal application must be complete before the permit expiration date listed on the cover page of this permit. Permit expiration terminates the stationary source's right to operate unless a timely and complete renewal application has been submitted consistent with 40 CFR 71.7(b) and 71.5(a)(1)(iii).

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

[13] 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.

[14] 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

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

69.1. included and specifically identified in the permit; or

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

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

70. 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

70.1. an enforcement action;

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

70.3. denial of an operating permit renewal application.

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

71. 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)]

72. 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)]

73. 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

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

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

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

73.4. 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)]

74. 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.

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

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

75.2. 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)]

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

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

Table C - Permit Shields Granted

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
4, 5, & 21	40 CFR 60 Subpart D	Heat input capacities below threshold (250 MMBtu/hr); and units not classified as Fossil-Fuel-Fired Steam Generators, as defined in subpart.
4, 5, & 21	40 CFR 60 Subpart Da	Heat input capacities below threshold (250 MMBtu/hr); and units not classified as Electric Utility Steam Generating Units, as defined in subpart.
4, 5, & 21	40 CFR 60 Subpart Db	Heat input capacities below threshold (100 MMBtu/hr).
4, 5, & 21	40 CFR 60 Subpart Dc	Heat input capacities below threshold (10 MMBtu/hr) and/or commenced construction prior to effective date of subpart (6/10/89).
4, 5, & 21	40 CFR 63 Subpart DDDDD	Stationary source is not a major source of HAPs.
4, 5, & 21	40 CFR 63 Subpart JJJJJJ	These emission units are not industrial, commercial, or institutional boilers as defined in 40 CFR 63.11237 and/or are gas-fired units which are exempt from this rule (see 40 CFR 63.11195(e)).
18	40 CFR 60 Subpart K	Vessel storage capacity below threshold (40,000 gallons) and commenced construction after effective date of subpart (5/19/78).
18	40 CFR 60 Subpart Ka	Vessel storage capacity below thresholds (40,000/420,000 gallons).
18	40 CFR 60 Subpart Kb	Subpart Kb does not apply to storage vessels at gasoline service stations [§60.110b(d)(6)].

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
18	40 CFR 63 Subpart OO	Provisions only apply to tanks affected by 40 CFR 60, 61, or 63 that specifically reference 40 CFR Subpart OO.
18	40 CFR 63 Subpart SS	Provisions only apply to tanks affected by 40 CFR 60, 61, or 63 that specifically reference 40 CFR 63 Subpart SS.
18	40 CFR 63 Subpart BBBBBB	The area source is not a gasoline distribution bulk terminal, bulk plant or pipeline facility as defined in 40 CFR 63.11100.
12a	40 CFR 60.7(a)(1) & (3), Subpart A	Initial notification is not required for this emission unit which is a 175 hp model year 2015 emergency engine. [§60.4214(a)]
12a	40 CFR 60.7(a)(4), Subpart A	Requirements only apply to existing facilities. This emission unit is an affected facility.
12a	40 CFR 60.7(b)-(d), Subpart A	Per Table 8 of Subpart IIII, §60.7 only applies as specified in §60.4214(a) which does not contain a reference to 40 CFR 60.7(b)-(d).
12a	40 CFR 60.11, Subpart A	Requirement is not applicable to engines subject to Subpart IIII of Part 60 per Table 8 to Subpart IIII.
12a	40 CFR 60.13, Subpart A	Requirement is not applicable to engines subject to Subpart IIII of Part 60 with a displacement <30 liters/cylinder— per Table 8 to Subpart IIII.
1 through 3	40 CFR 60 Subpart GG	Commenced construction prior to effective date of subpart (10/3/77).
1 through 3	40 CFR 60 Subpart KKKK	Construction, modification, or reconstruction of each turbine commenced prior to the applicability date of February 18, 2005. The permit shield applies to currently installed units until modified, reconstructed or replaced.
6 through 11 & 13	40 CFR 60 Subpart IIII	Construction, modification, or reconstruction of each IC engine commenced prior to the applicability date of July 11, 2005 and /or each IC engine was manufactured prior to April 1, 2006. The permit shield applies to individual currently installed units until modified, reconstructed or replaced.
12a	40 CFR 60.4201 through 60.4203 and 60.4210, Subpart IIII	The Permittee is not a manufacturer of CI ICE.
12a	40 CFR 60.4204, 60.4209(b), & 60.4214(a), Subpart IIII	This emission unit is an emergency engine. These sections do not apply to emergency engines.
12a	40 CFR 60.4205(a) & (b), Subpart IIII	This emission unit is a fire pump engine. These sections do not apply to fire pump engines.
12a	40 CFR 60.4205(d) & 60.4213, Subpart IIII	The displacement for this emission unit is < 30 liters/cylinder.
12a	40 CFR 60.4211(b), Subpart IIII	This emission unit is a 2015 model year engine rated at 175 hp. This requirement applies to fire pump engines rated at 175 hp that were manufactured prior to 2009.
12a	40 CFR 60.4214(c), Subpart IIII	This engine is not equipped with a diesel particulate filter.
12a	40 CFR 60.4214(d), Subpart IIII	This reporting requirement does not apply to firewater pump engines.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
12a	40 CFR 60.4214(e), Subpart IIII	This engine is not equipped with an auxiliary emission control device (AECD).
18	40 CFR 63.6(b), Subpart A	These requirements apply to new and reconstructed sources. The gasoline distribution facility at PBOC/MCC is an existing source under Subpart CCCCCC.
18	40 CFR 63.6(c) through (e), and (f)(1), Subpart A	Per Table 3 of 40 CFR 63, Subpart CCCCCC, these requirements do not apply to sources affected by Subpart CCCCCC.
6 through 11 & 13	40 CFR 63.7, Subpart A	There are no performance testing requirements that apply to these engines because there are no emission limitations that apply.
6 through 11 & 13	40 CFR 63.8(e), (f)(4) and (f)(6), Subpart A	Per 40 CFR 63.6645(a)(5), these engines are not subject to the requirements of 40 CFR 63.8(e), (f)(4) and (f)(6).
1 through 3	40 CFR 63 Subpart YYYY	Stationary source is not a major source of HAPs. In addition, turbines located on the North Slope of Alaska are categorically exempt from 40 C. F. R. 63 Subpart YYYY.
12a	40 C.F.R 63 Subpart ZZZZ EXCEPT: §63.6590(a)(2)(iii) and §63.6590(c)(1) 40 CFR 63, Subpart A	There are no Subpart ZZZZ requirements that apply to new CI RICE located at an area source of HAP emissions, except for the requirement to comply with the applicable requirements of 40 CFR 60, Subpart IIII. [ref. 40 CFR 63.6590(c)(1)].
6 through 11 & 13	40 CFR 63.6600, 63.6601, 63.6602, 63.6610, and 63.6611, Subpart ZZZZ	The stationary source is not a major source of HAP emissions.
6 through 11 & 13	40 CFR 63, Subpart ZZZZ, Tables 2a and 2c	There are no requirements in Tables 2a or 2c of Subpart ZZZZ that apply to these engines because they are existing CI RICE located at an area source of HAP emissions.
6 through 11 & 13	40 CFR 63, Subpart ZZZZ, Table 2b	There are no requirements in Table 2b of Subpart ZZZZ that apply to these engines because they are emergency CI RICE or non-emergency CI RICE rated at ≤ 500 hp.
6 through 11 & 13	40 CFR 63.6603(b) – (e), Subpart ZZZZ	These requirements do not apply to existing emergency CI RICE or existing non-emergency CI RICE ≤ 300 hp.
6 through 11 & 13	40 CFR 63.6604, Subpart ZZZZ	The requirement to comply with 40 CFR 1090.305 does not apply to existing non-emergency CI RICE (EU IDs 7, 9, and 13) with a site rating of ≤300 bhp. The existing emergency CI RICE (EU IDs 6, 8, 10, and 11) do not meet the operating criteria specified in 40 CFR 63.6604(b).
6 through 11 & 13	40 CFR 63.6612, Subpart ZZZZ	There are no requirements in either Table 4 or Table 5 of Subpart ZZZZ that apply to these engines because there are no applicable emission limitations per 40 CFR 63.6603 and Table 2d of Subpart ZZZZ that apply to either existing non-emergency CI RICE rated ≤ 300 bhp or emergency CI RICE located at an area source of HAP emissions.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
6 through 11 & 13	40 CFR 63.6615 and 63.6620, Subpart ZZZZ 40 CFR 63, Subpart ZZZZ, Table 3 40 CFR 63, Subpart ZZZZ, Table 4	There are no performance testing requirements that apply to these engines because there are no applicable emission limitations per 40 CFR 63.6603 and Table 2d of Subpart ZZZZ that apply to either existing non-emergency CI RICE rated ≤ 300 bhp or emergency CI RICE located at an area source of HAP emissions.
6 through 11 & 13	40 CFR 63.6625(a) & (b), Subpart ZZZZ	These requirements do not apply because there are no emission limitations or operating limitations that apply to either existing non-emergency CI RICE rated ≤ 300 bhp or emergency CI RICE located at an area source of HAP emissions.
6 through 11 & 13	40 CFR 63.6625(c), Subpart ZZZZ 40 CFR 63.6650(g), Subpart ZZZZ	These requirements only apply to "new" or "reconstructed" stationary RICE which fire landfill gas or digester gas. These engines are existing CI RICE fired exclusively on liquid fuel.
7, 9, 13	40 CFR 63.6625(f), Subpart ZZZZ	These engines are not classified as emergency engines under Subpart ZZZZ.
6 through 11 & 13	40 CFR 63.6625(g), Subpart ZZZZ	This requirement does not apply to emergency engines or non-emergency engines rated at < 300 bhp.
6 through 11 & 13	40 CFR 63.6630, Subpart ZZZZ 40 CFR 63, Subpart ZZZZ, Table 5	These requirements do not apply because there are no emission limitations or operating limitations that apply to either existing non-emergency CI RICE rated ≤ 300 bhp or emergency CI RICE located at an area source of HAP emissions.
6 through 11 & 13	40 CFR 63.6635, Subpart ZZZZ	These requirements apply only to CI RICE subject to emissions or operational limits. There are no emissions or operational limits that apply to these engines.
6 through 11 & 13	40 CFR 63.6640(b) and 63.6650(a) through (e), Subpart ZZZZ 40 CFR 63.9, Subpart A	Compliance status reporting requirements only apply to CI RICE subject to numerical emissions or operational limits. There are no emissions or operational limits that apply to this engine.
7, 9, 13	40 CFR 63.6640(f), Subpart ZZZZ	These engines are not classified as emergency engines under Subpart ZZZZ
6 through 11 & 13	40 CFR 63.6645, Subpart ZZZZ	Per 40 CFR 63.6645(a)(5), initial notification is not required for existing stationary emergency CI RICE or an existing stationary CI RICE that is not subject to any numerical emission standards.
6 through 11 & 13	40 CFR 63.6650(h)	The emergency CI RICE (EU IDs 6, 8, 10, and 11) are not contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) and do not operate for the purpose specified in §63.6640(f)(4)(ii). EU IDs 7, 9, and 13 are not classified as emergency CI RICE under Subpart ZZZZ.
6 through 11 & 13	40 CFR 63.6655(a) through (d), Subpart ZZZZ	There are no emission or operational limits which apply to the engines. Additionally, the engines do not fire landfill or digester gas and a CEMS or CPMS is not required.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
7, 9, 13	40 CFR 63.6655(f), Subpart ZZZZ	These engines are not classified as emergency engines under Subpart ZZZZ and are not required to limit hours of operation per 40 CFR 63.6640(f).
18	40 CFR 63.11113(a) & (d), Subpart CCCCCC	These deadlines apply to new or reconstructed affected sources. This tank is an existing affected source.
18	40 CFR 63.11118(d), 63.11120(d), and 63.11125(c), Subpart CCCCCC	The Permittee does not own or operate a gasoline cargo tank.
18	40 CFR 63.11117(e) and 63.11124(a)(1) – (2), Subpart CCCCCC	Initial notifications were submitted on May 8, 2008 and March 12, 2013.
18	40 CFR 63.11124(b)(1), Subpart CCCCCC	An initial notification was submitted on October 2, 2013.
Stationary Source-Wide	40 CFR 61.143, Subpart M	Stationary source roadways are not exposed to asbestos tailings or asbestos containing waste.
Stationary Source-Wide	40 CFR 61.146, Subpart M	Stationary source does not spray apply asbestos containing materials.
Stationary Source-Wide	40 CFR 61.147, Subpart M	Stationary source does not engage in any fabricating operations using commercial asbestos.
Stationary Source-Wide	40 CFR 61.148, Subpart M	Stationary source does not install or reinstall, on any stationary source component, insulation material containing commercial asbestos.
Stationary Source-Wide	40 CFR 61.151, Subpart M	Applies only to those facilities subject to 40 CFR 61.142, 40 CFR 61.144, or 40 CFR 61.147 (Asbestos Mills, manufacturing or fabricating).
Stationary Source-Wide	40 CFR 61.152, Subpart M	Stationary source does not use air cleaning equipment.
Stationary Source-Wide	40 CFR 61.153, Subpart M	No reporting requirements apply for sources subject to 40 CFR 61.145 (demolition and renovation) [ref. 40 CFR 61.153(a)].
Stationary Source-Wide	40 CFR 61.154, Subpart M	Stationary source not an active waste disposal site and does not receive asbestos containing waste material.
Stationary Source-Wide	40 CFR 61.155, Subpart M	Stationary source does not process regulated asbestos containing material (RACM).
Stationary Source-Wide	40 CFR 63 Subpart R and 40 CFR 60 Subpart XX	Stationary source does not operate a bulk gasoline terminal as defined by 40 CFR 60 Subpart XX and referenced in 40 CFR 63 Subpart R.
Stationary Source-Wide	40 CFR 63 Subpart T	Stationary source does not operate halogenated solvent cleaning machines.
Stationary Source-Wide	40 CFR 64 – Compliance Assurance Monitoring	Stationary source does not use a control device to achieve compliance with any emission limitation or standard.
Stationary Source-Wide	40 CFR 82.160	Stationary source does not contract equipment testing organizations to certify recovery and recycling equipment.

EU ID	Non-Applicable Requirements	Reason for Non-Applicability
Stationary Source-Wide	40 CFR 82.164	Stationary source does not sell reclaimed refrigerant.
Stationary Source-Wide	40 CFR 82, Subpart F, Appendix D	Stationary source does not have a technician certification program.
Mobile internal combustion engines	18 AAC 50.055(a)(1) 18 AAC 50.055(b)(1) 18 AAC 50.055(c)	Mobile internal combustion engines are not included in the definition of fuel-burning equipment (18 AAC 50.990).

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

Section 11. Visible Emissions Observation Form

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

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

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

Page No. _____

Stationary Source Name	Type of Emission Unit		Observation Date			Start Time		End Time		
			Sec / Min	0	15	30	45	Comments		
Emission Unit Location			1							
City	State	Zip	2							
Phone # (Key Contact)	Stationary Source ID Number		3							
Process Equipment	Operating Mode		4							
Control Equipment	Operating Mode		5							
Describe Emission Point/Location			6							
Height above ground level	Height relative to observer	Clinometer Reading	7							
Distance From Observer Start End	Direction From Observer Start End		8							
Describe Emissions & Color Start	End		9							
Visible Water Vapor Present? If yes, determine approximate distance from the No Yes	stack exit to w here the plume w as read		10							
Point in Plume at Which Opacity Was Determined			11							
Describe Plume Background	Background Color		12							
Start	Start		13							
End	End									
Sky Conditions: Start	End		14							
Wind Speed Start End	Wind Direction From Start End		15							
Ambient Temperature	Wet Bulb Temp	RH percent	16							
SOURCE LAYOUT SKETCH: 1 Stack or Point Being Read 2 Wind Direction From			17							
3 Observer Location 4 Sun Location 5 North Arrow 6 Other Stacks			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 Observer's Name							
Print Name:										
Signature:			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		
	Start	End		Sum	Average	Comments

Section 12. SO_2 Material Balance Calculation[15]

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, respectively, in the fuel. These percentages should total 100%.

The fuel weight percent of sulfur (wt%S_{fuel}) is obtained pursuant to Condition 10. 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)]

[15] Revised as of November 7, 2020

Section 13. ADEC Notification Form[16]

Prudhoe Bay Operations Center / Main Construction Camp (PBOC/MCC)	AQ0274TVP03
Stationary Source (Facility) Name	**Air Quality Permit Number**

Hilcorp North Slope, LLC

Company Name

When did you discover the Excess Emissions/Permit Deviation?

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

When did the event/deviation occur?

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

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

What was the duration of the event/deviation: ____ : ____ (hrs:min) or _____ days

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

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

☐ Excess Emissions – Complete Section 1 and Certify

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

☐ Deviation from Permit Condition – Complete Section 2 and Certify

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

☐ Deviations from COBC[17], CO[18], or Settlement Agreement – Complete Section 2 and Certify

[16] Revised as of July 22, 2020.
[17] Compliance Order By Consent
[18] Compliance Order

Section 1. Excess Emissions

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

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

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

☐ Control Equipment Failure ☐ Schedule Maintenance/Equipment Adjustment

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

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

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

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

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

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

☐ Fugitive Emissions ☐ Emission Limit Exceeded ☐ Marine Vessel Opacity

☐ Flaring ☐ Other _____

(f) **Corrective Actions:**

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

(g) **Unavoidable Emissions:**

Do you intend to assert that these excess emissions were unavoidable? ☐ Yes ☐ No

Do you intend to assert the affirmative defense of 18 AAC 50.235? ☐ Yes ☐ No

Certify Report (<u>go to end of form</u>)

Section 2. Permit Deviations

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

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

(b) **Emissions Units Involved:**

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

EU ID	EU Name	Permit Condition/ Potential Deviation

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

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

(d) **Corrective Actions:**

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

Certification:

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

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 56.)*

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

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

If submitted online, report must be submitted by an authorized E-signer for the stationary source (according to Condition 56).

[18 AAC 50.346(b)(3)]