

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY OPERATING PERMIT

Permit No. AQ0067TVP02

Issue Date: Public Comment Draft - November 9, 2009

Expiration Date: Five Years

The Department of Environmental Conservation, under the authority of AS 46.14 and 18 AAC 50, issues an operating permit to the Permittee, **Union Oil Company of California**, for the operation of the **Monopod Platform**.

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

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

Upon effective date of this permit, Operating Permit No. AQ0067TVP01 expires.

This Operating Permit becomes effective <insert date—30 days after issue date>.

John F. Kuterbach, Manager
Air Permits Program

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Section 1. Stationary Source Information

Identification

Names and Addresses

Permittee: **Union Oil Company of California**
P.O.Box 196247
Anchorage, AK 99519-6247

Stationary Source Name: **Monopod Platform**

Location: 60° 53' 49" North; 151° 34' 45.5" West

Physical Address: Upper Cook Inlet, Alaska

Owner: Union Oil Company of California
P.O.Box 196247
Anchorage, AK 99519-6247

Operator: Union Oil Company of California
P.O.Box 196247
Anchorage, AK 99519-6247

Permittee's Responsible Official: Dale Haines, UOCC Alaska Operations Manager

Designated Agent: CT Corporation
801 West 10th Street, Suite 300
Juneau, AK 99801

Stationary Source and Building Contact: Paul Bartolowits and Paul Delago, Foreman
Phone: (907) 776-6670
Fax: (907) 776-6671

Fee Contact: Cynthia Espinoza, UOCC
P.O.Box 196247
Anchorage, Ak 99519-6247
Phone: (907) 263-7315
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Permit Contact: Tim Knapp, UOCC
(907) 263-7365
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Process Description

SIC Code: 1311 - Crude Oil and Natural Gas
[18 AAC 50.040(j)(3), 7/25/08 and 18 AAC 50.326(a), 12/1/04]
[40 C.F.R. 71.5(c)(1 & 2), 7/2/07]

Section 2. Emission Unit Inventory and Description

Emission units listed in Table A have specific monitoring, record keeping, or reporting conditions in this permit. Emission unit descriptions and ratings are given for identification purposes only.

Table A - Emission Units Inventory

EU ID	Tag No.	Emission Unit Name	Description (Fuel)	Rating/ Size	Installation Date
1	M-PM-0230	Solar Centaur T-4500 Turbine	Gas Compressor Set #1 (NG)	4,400 hp	6/1995 ¹
2	M-PM-0280	Solar Centaur T-4500 Turbine	Gas Compressor Set #2 (NG)	4,400 hp	4/1996 ¹
3	M-PM-0520	Solar Saturn Turbine	AC Generator #1 Drive (NG)	750 kW	1969
4	M-PM-0370	Solar Saturn Turbine	Gas Lift Compressor (NG)	1,100 hp	1972
5	M-PM-0540	Solar Saturn Turbine	AC Generator #2 Drive (NG)	750 kW	1973
6	M-PM-1210	Solar Saturn Turbine	Waterflood Pump #1 Drive (NG)	1,100 hp	1970
7	M-PM-1220	Solar Saturn Turbine	Waterflood Pump #2 Drive (NG)	1,100 hp	1970
8	M-PM-1640	Caterpillar G-398A Engine	AC Generator #5 Drive (NG)	752 hp	1970
9	M-PM-1630	Caterpillar G-398A Engine	AC Generator #4 Drive (NG)	752 hp	1970
10	M-PM-1620	Caterpillar G-398A Engine	AC Generator #3 Drive (NG)	752 hp	1970
11	M-PM-1610	Caterpillar G-398A Engine	AC Generator #2 Drive (Diesel)	180 hp	1966
12	M-PM-1600	Caterpillar G-398A Engine	AC Generator #1 Drive (Diesel)	180 hp	1966
13	M-CR-1780	Caterpillar 3406B-DITA Engine	East Crane (Diesel)	420 hp	1996
14	M-CR-1790	Detroit Diesel 671 Engine	West Crane (Diesel)	230 hp	1997
15	M-B-1450	Weil-McLain Boiler 88	Boiler (NG)	4.763 MMBtu/hr	1992
16	M-SY-1570	Glycol Regenerator	TEG Dehydration Unit	10 MMscf raw gas/day	1966
17	M-SP-0610LP	Flare (LP)	NW Low Pressure Flare – NW (NG)	91.5 MMCF/yr	1966
18	M-SP-0610HP	Flare and Pilot (HP)	NW High Pressure Flare and Pilot – NW (NG)		1966
19	M-SP-0630LP	Flare (LP)	NW Low Pressure Flare – South (NG)		1966
20	M-SP-0630HP	Flare and Pilot (HP)	NW High Pressure Flare and Pilot – South (NG)		1966

¹ These units are subject to 40 CFR 60, Subpart GG.

[18 AAC 50.326(a), 12/1/04]
 [40 C.F.R. 51.166(b) and 40 C.F.R. 71.5(c)(3), 7/2/07]

Section 3. State Requirements

Visible Emissions Standards

1. Industrial Process and Fuel-Burning Equipment Visible Emissions. The Permittee shall comply with the following:

1.1 Do not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 1 - 20 listed in Table A to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.

[18 AAC 50.040(j) & 50.055(a)(1), 7/25/08; 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

1.2 For EU IDs 11 - 14, monitor, record and report in accordance with Conditions 2 - 4.

1.3 For EU IDs 1 - 10, and 15, burn only gas as fuel. Monitoring for these emission unit(s) shall consist of a certification in each operating report under Condition 55 that each of these emission unit(s) fired only gas. Report under Condition 54 if any fuel is burned other than gas.

1.4 For EU IDs 17 - 20, monitor, record and report in accordance with condition 5.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

Visible Emissions Monitoring, Recordkeeping and Reporting

Liquid Fuel-fired Sources (EU IDs 11 - 14)

2. Visible Emissions Monitoring. The Permittee shall observe the exhaust of EU IDs 11 - 14 for visible emissions using either the Method 9 Plan under Condition 2.1 or the Smoke/No-Smoke Plan under Condition 2.2. The Permittee may change visible-emissions plans for an emission unit at any time unless prohibited from doing so by Condition 2.3. The Permittee may elect to continue a visible emission monitoring schedule in effect from the previous permit at the time a renewed permit is issued if applicable.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(i), 7/2/07]

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

a. First Method 9 Observation. For any unit, observe exhaust for 18 minutes within 14 calendar days after changing from the Smoke/No-Smoke Plan of Condition 2.2. For any units replaced during the term of this permit, observe exhaust for 18 minutes within 30 days of startup.

- b. Monthly Method 9 Observations. After the first Method 9 observation, perform 18-minute observations at least once in each calendar month that an emission unit operates.
- c. Semiannual Method 9 Observations. After observing emissions for three consecutive operating months under Condition 2.1b, unless a six-minute average is greater than 15 percent and one or more observations are greater than 20 percent, perform 18-minute observations at least semiannually.

Semiannual observations must be taken between four and seven months after the previous set of observations.

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

Annual observations must be taken between 10 and 13 months after the previous observations.

For any units that are operated intermittently, perform 18-minute observations annually as specified above, and Conditions 2.1a - 2.1c do not apply. Annual observations must be taken between 10 and 13 months after the previous observations or during the next month the unit operates, whichever is later.

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

2.2 Smoke/No Smoke Plan. Observe the exhaust for the presence or absence of visible emissions, excluding condensed water vapor.

- a. Initial Monitoring Frequency. Observe the exhaust during each calendar day that an emission unit operates.
- b. Reduced Monitoring Frequency. After the emission unit has been observed on 30 consecutive operating days, if the emission unit operated without visible smoke in the exhaust for those 30 days, then observe emissions at least once in every calendar month that an emission unit operates.
- c. Smoke Observed. If smoke is observed, either begin the Method 9 Plan of Condition 2.1 or perform the corrective action required under Condition 2.3.

2.3 **Corrective Actions Based on Smoke/No Smoke Observations.** If visible emissions are present in the exhaust during an observation performed under the Smoke/No Smoke Plan of Condition 2.2, then the Permittee shall either follow the Method 9 plan of Condition 2.1 or

- a. initiate actions to eliminate smoke from the source within 24 hours of the observation;
- b. keep a written record of the starting date, the completion date, and a description of the actions taken to reduce smoke; and
- c. after completing the actions required under Condition 2.3a,
 - (i) take Smoke/No Smoke observations in accordance with Condition 2.2.
 - (A) at least once per day for the next seven operating days and until the initial 30 day observation period is completed; and
 - (B) continue as described in Condition 2.2b; or
 - (ii) if the actions taken under Condition 2.3a do not eliminate the smoke, or if subsequent smoke is observed under the schedule of Condition 2.3c(i)(A), then observe the exhaust using the Method 9 Plan unless the Department gives written approval to resume observations under the Smoke/No Smoke Plan; after observing smoke and making observations under the Method 9 Plan, the Permittee may at any time take corrective action that eliminates smoke and restart the Smoke/No Smoke Plan under Condition 2.2a.

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

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(ii), 7/2/07]

3.1 If using the Method 9 Plan of Condition 2.1,

- a. the observer shall record
 - (i) the name of the stationary source, emission unit and location, stationary source type, observer's name and affiliation, and the date on the Visible Emissions Field Data Sheet 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, *if known*) 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 Emissions Observation in Section 11, and
 - (v) the minimum number of observations required by the permit; each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period;
- b. to determine the six-minute average opacity, divide the observations recorded on the record sheet into sets of 24 consecutive observations; sets need not be consecutive in time and in no case shall two sets overlap; for each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing this sum by 24; record the average opacity on the sheet;
 - c. calculate and record the highest 18-consecutive-minute averages observed.
- 3.2 If using the Smoke/No Smoke Plan of Condition 2.2, record the following information in a written log for each observation and submit copies of the recorded information upon request of the Department:
- a. the date and time of the observation;
 - b. from Table A, the ID of the emission unit observed;
 - c. whether visible emissions are present or absent in the exhaust;
 - d. a description of the background to the exhaust during the observation;
 - e. if the emission unit starts operation on the day of the observation, the startup time of the emission unit;
 - f. name and title of the person making the observation; and
 - g. operating rate (load or fuel consumption rate).

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

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(iii), 7/2/07]

- 4.1 include in each stationary source operating report under Condition 55
 - a. which visible-emissions plan of Condition 2 was used for each emission unit; if more than one plan was used, give the time periods covered by each plan;

- b. for each emission unit under the Method 9 Plan,
 - (i) copies of the observation results (i.e. opacity observations) for each emission unit that used the Method 9 Plan, 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-minute average observed; and
 - (C) dates when one or more observed six-minute averages were greater than 20 percent;
 - c. for each emission unit under the Smoke/No Smoke Plan, the number of days that Smoke/No Smoke observations were made and which days, if any, that smoke was observed; and
 - d. a summary of any monitoring or record keeping required under Conditions 2 and 3 that was not done;
- 4.2 report under Condition 54:
- a. the results of Method 9 observations that exceed an average of 20 percent opacity for any six-minute period; and
 - b. if any monitoring under Condition 2 was not performed when required, report within three days of the date the monitoring was required.

Flares, (EU IDs 17 - 20)

5. Visible Emissions Monitoring, Recordkeeping, and Reporting. The Permittee shall observe one daylight flare event ¹ within 12 months of the preceding flare event observation. If no event exceeds 1 hour within that 12-month period, then the Permittee shall observe the next daylight flare event.

5.1 Monitor flare events using Method-9.

5.2 Record the following information for observed events:

- a. the flare(s) EU ID number;
- b. results of the Method-9 observations;

¹ For purposes of this permit, a “flare event” is flaring of gas for greater than one hour as a result of scheduled release operations, i.e. maintenance or well testing activities. It does not include non-scheduled release operations, i.e. process upsets, emergency flaring, or de-minimis venting of gas incidental to normal operations.

- c. reason(s) for flaring;
 - d. date, beginning and ending time of event; and
 - e. volume of gas flared.
- 5.3 Monitoring of a flare event may be postponed for safety or weather reasons, or because a qualified observer is not available. Until the Permittee completes the monitoring on the flare events described in this condition, the Permittee shall either monitor each qualifying flare event or include in the next operating report required by Condition 55, an explanation of the reason the event was not monitored. If no events meeting this definition occur during a reporting period then no monitoring is required.
- 5.4 Attach copies of the records required by Condition 5.2 with the stationary source operating report required by Condition 55.
- 5.5 Report under Condition 54 whenever the opacity standard in Condition 1 is exceeded.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3) & (c)(6), 7/2/07]

Particulate Matter Emissions Standards

- 6. Industrial Process and Fuel-Burning Equipment Particulate Matter.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 1 - 20 listed in Table A to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

[18 AAC 50.040(j) & 50.055(b)(1), 7/25/08; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

- 6.1 For EU IDs 11 - 14, monitor, record and report in accordance with Conditions 7 - 8.
- 6.2 For EU IDs 1 - 10, and 15, burn only gas as fuel. Monitoring for these emission unit(s) shall consist of a certification in each operating report under Condition 55 that each of these emission unit(s) fired only gas. Report under Condition 54 if any fuel is burned other than gas.
- 6.3 For EU IDs 17 - 20, the Permittee must annually certify compliance under Condition 56 with the particulate matter standard.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

PM Monitoring, Recordkeeping and Reporting

Liquid-Fired Sources (EU IDs 11 - 14)

- 7. Particulate Matter Monitoring for Diesel Engines and Liquid-Fired Turbines.** The Permittee shall conduct source tests on diesel engines and liquid-fired turbines, EU IDs 11 - 14, to determine the concentration of particulate matter (PM) in the exhaust of a source in accordance with this Condition 7.

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(i), 7/2/07]

- 7.1 Within six months of exceeding the criteria of Conditions 7.2a or 7.2b, either
- a. conduct a PM source test according to requirements set out in Section 6; or
 - b. make repairs so that emissions no longer exceed the criteria of Condition 7.2; to show that emissions are below those criteria, observe emissions as described in Condition 2.1 under load conditions comparable to those when the criteria were exceeded.
- 7.2 Conduct the test according to Condition 7.1 if
- a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or
 - b. for a source with an exhaust stack diameter that is less than 18 inches, 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity that is greater than 15 percent and not more than 20 percent, unless the Department has waived this requirement in writing.
- 7.3 During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the average opacity that was measured during each one-hour test run. Submit a copy of these observations with the source test report.
- 7.4 The automatic PM source test requirement in Conditions 7.1 and 7.2 is waived for an emissions unit if a PM source test on that unit has shown compliance with the PM standard during this permit term.

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

[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3)(iii), 7/2/07]

- 8.1 report under Condition 54
- a. the results of any PM source test that exceeds the PM emissions limit; or

- b. if one of the criteria of Condition 7.2 was exceeded and the Permittee did not comply with either Condition 7.1a or 7.1b, this must be reported within 30 days of the end of the month in which the observations occur;
- 8.2 report observations in excess of the threshold of Condition 7.2b within 30 days of the end of the month in which the observations occur;
- 8.3 in each stationary source operating report under Condition 55, include
- a. the dates, EU ID(s), and results when an observed 18-minute average was greater than an applicable threshold in Condition 7.2;
 - b. a summary of the results of any PM testing conducted under Condition 7 for which the report has been completed during the operating report period; and
 - c. copies of any visible emissions observation results (opacity observations) greater than the thresholds of Condition 7.2, if they were not already submitted.

Sulfur Compound Emission Standards Requirements

- 9. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from EU IDs 1 - 20 to exceed 500 ppm averaged over three hours.

[18 AAC 50.040(j) & 18 AAC 50.055(c), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(1), 7/2/07]

For fuel oil² (EU IDs 11 and 12)

- 9.1 The Permittee shall do one of the following for each shipment of fuel:
- a. If the fuel grade requires a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount; or
 - b. If the fuel grade does not require a sulfur content less than 0.5 percent by weight, keep receipts that specify fuel grade and amount; and
 - (i) test the fuel for sulfur content; or
 - (ii) obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent.
- 9.2 Fuel testing under Condition 9.1 must follow an appropriate method listed in 18 AAC 50.035.

² *Oil* means crude oil or petroleum or a liquid fuel derived from crude oil or petroleum, including distillate and residual oil, as defined in 40 C.F.R. 60.41b, effective 7/1/07.

- 9.3 If a load of fuel contains greater than 0.75 percent sulfur by weight, the Permittee shall calculate SO₂ emissions in ppm using either Section 12 or Method 19 of 40 C.F.R. 60, Appendix A-7, adopted by reference in 18 AAC 50.040(a).
- 9.4 The Permittee shall report as follows:
- a. If SO₂ emissions calculated under Condition 9.3 exceed 500 ppm, the Permittee shall report under Condition 54. When reporting under this condition, include the calculation under Section 12
 - b. The Permittee shall include in the report required by Condition 55
 - (i) a list of the fuel grades received at the stationary source during the reporting period;
 - (ii) for any grade with a maximum fuel sulfur greater than 0.5 percent sulfur, the fuel sulfur of each shipment; and
 - (iii) for fuel with a sulfur content greater than 0.75 percent, the calculated SO₂ emissions in ppm.
[18 AAC 50.040(j), 7/25/08; 18 AAC 50.326(j), 12/1/04 and 18 AAC 50.346(c), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

For fuel oil (EU IDs 13 and 14)

- 9.5 The Permittee shall comply with the fuel sulfur content limitations, monitoring, recordkeeping, and reporting requirements of Condition 11 for EU IDs 13 and 14.
[Construction Permit No. 067CP01, 6/20/2003]

For fuel gas³, (EU IDs 1 - 10, 15, and 17 - 20)

- 9.6 Monitoring – The Permittee shall analyze a representative sample of the fuel annually to determine the sulfur content using either ASTM D4084, D5504, D4810, D4913, D6228 or GPA standard 2377, or a listed method approved in 18 AAC 50.035(b)-(c) or 40 CFR 60.17 incorporated by reference in 18 AAC 50.040(a)(1).
- 9.7 Recordkeeping - Keep records of the annual sulfur content analysis required under Condition 9.6.
- 9.8 Reporting -
- a. Report as excess emissions, in accordance with Condition 54, whenever the fuel combusted causes sulfur compound emissions to exceed the standard of Condition 9.

³ *Fuel gas* has the meaning taken as natural gas as defined in 40 C.F.R. 60.41b, effective 7/1/07.

- b. Include copies of the records required by Condition 9.7 with the stationary source operating report required by Condition 55.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3) & (c)(6), 7/2/07]

Construction Permit Requirements

Ambient Air Quality Standards and Maximum Allowable Ambient Concentrations

10. Fuel Consumption Cap: EU IDs 13 and 14

- 10.1 Limit operations of EU ID 13, East Crane Engine, to 66,900 gallons fuel oil per 12-month rolling period.
- 10.2 Limit operations of EU ID 14, West Crane Engine, to 24,400 gallons fuel oil per 12-month rolling period.
- 10.3 Record fuel consumption by EU IDs 13 and 14 as follows.
 - a. When 12-month rolling total fuel consumption is less than 90% of total allowable fuel consumption, record fuel consumption no less than once each month for each unit.
 - b. When rolling total fuel consumption is greater than 90% of the allowable limit, record fuel consumption no less than once each week.
- 10.4 Include monthly 12-month rolling totals for each of EU IDs 13 and 14 in the facility operating report required by Condition 55.

[Construction Permit No. 067CP01, 6/20/2003]
[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 12/01/04]
[40 C.F.R. 71.6(a), 7/2/07]

11. Diesel Fuel Sulfur Content - EU IDs 13 and 14: Do not burn diesel fuel in EU IDs 13 or 14 with fuel sulfur content greater than 0.3% sulfur by weight.

- 11.1 The Permittee shall do one of the following for each shipment of fuel:
 - a. if the fuel grade requires a sulfur content of less than 0.3% by weight, keep receipts that specify fuel grade and amount; or
 - b. if the fuel grade does not require a sulfur content less than 0.3% by weight, keep receipts that specify fuel grade and amount; and
 - (i) test the fuel for sulfur content; or
 - (ii) obtain test results showing the sulfur content of the fuel from the supplier or refinery; the test results must include a statement signed by the supplier or refinery of what fuel they represent.

- 11.2 Fuel testing under Condition 11 must follow an appropriate method listed in 18 AAC 50.035, ASTM D 396-92 or D 975-94.
- 11.3 The Permittee shall include in the report required by Condition 55, a list for EU IDs 13 and 14 of the grade and sulfur content of diesel fuel burned during the reporting period;
- 11.4 The Permittee shall report under Condition 54 for any fuel burned in EU IDs 13 and 14 with a maximum fuel sulfur greater than 0.3% sulfur.
- 11.5 Include results of each sulfur content analysis taken during the reporting period in the form of a summary table and include it in the operating report required under Condition 55.

[Construction Permit No. 067CP01, 6/20/2003]
[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 12/01/04]
[40 C.F.R. 71.6(a), 7/2/07]

Stationary Source-Wide Specific Requirements

Insignificant Emission Units

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

[18 AAC 50.050(a) & 50.055(a)(1), 7/25/08]
 - 12.2 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), 7/25/08]
 - 12.3 The Permittee shall not cause or allow sulfur compound emissions, expressed as SO₂, from an industrial process or fuel-burning equipment, to exceed 500 ppm averaged over three hours.

[18 AAC 50.055(c), 7/25/08]
 - 12.4 General MR&R for Insignificant Emission Units
 - a. The Permittee shall submit the compliance certifications of Condition 56 based on reasonable inquiry for Condition 12;
 - b. The Permittee shall comply with the requirements of Condition 33;

- c. The Permittee shall report in the operating report required by Condition 55 if an emission unit is insignificant because of actual emissions less than the thresholds of 18 AAC 50.326(e) and actual emissions become greater than any of those thresholds;
- d. No other monitoring, recordkeeping or reporting is required.

[18 AAC 50.346(b)(4), 11/9/08]

Section 4. Federal Requirements

Federal New Source Performance Standards (NSPS), Subpart A Requirements

- 13. NSPS Subpart A Notification.** For any affected facility⁴ regulated under NSPS requirements in 40 C.F.R. 60, the Permittee shall furnish the Department and EPA written or electronic notification of:⁵

[18 AAC 50.035, 11/9/08; and 18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.7(a) & 60.15(d), Subpart A, 7/01/07]

- 13.1 any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies unless that change is specifically exempted under an applicable subpart or in 40 C.F.R. 60.14(e), postmarked as soon as practicable but no more than 60 days before the change commences;

[40 C.F.R. 60.7(a)(4), Subpart A, 7/1/07]

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

[40 C.F.R. 60.15(d), 7/1/07]

- 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 40 C.F.R. 60, after the replacements.

⁴ *Affected facility* means, with reference to a stationary source, any apparatus to which a standard applies, as defined in 40 C.F.R. 60.2, effective 7/1/07

⁵ The source has already complied with these initial notifications (as appropriate). The condition text remains to make the condition enforceable in the event of modification or reconstruction of an existing source.

- 14. NSPS Subpart A Startup, Shutdown, & Malfunction Requirements.** The Permittee shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of EU IDs 1 and 2, any malfunctions of associated air-pollution control equipment, or any periods during which a continuous monitoring system or monitoring device for EU IDs 1 and 2 is inoperative.

[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.7(b), Subpart A, 7/1/07]

- 15. NSPS Subpart A Excess Emissions and Monitoring Systems Performance Report.** The Permittee shall submit to the Department and to EPA a written "excess emissions and monitoring systems performance report " (EEMSP)⁶ any time a limit in Condition 21 or 22 has been exceeded as described in this condition. Submit the EEMSP reports with the summary report form as required in Condition 16. Written reports of excess emissions shall include the following information:

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

- 15.1 The magnitude of excess emissions computed in accordance with Condition 22, any conversion factors used, the date and time of commencement and completion of each time period of excess emissions, and the process operating time during the reporting period.

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

- 15.2 Identification of each period of excess emissions that occurred during startup, shutdown, and malfunction of EU ID(s) 1 - 2; the nature and cause of any malfunction, and the corrective action taken or preventative measures adopted.

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

- 15.3 The date and time identifying each period during which a Continuous Monitoring System (CMS) was inoperative except for zero and span checks and the nature of any repairs or adjustments.

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

- 15.4 A statement indicating whether or not any excess emissions occurred or the CMS was inoperative, repaired, or adjusted, at any time during the reporting period.

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

- 16. NSPS Subpart A Summary Report Form.** The Permittee shall submit to the Department and to EPA one "summary report form" in the format shown in Figure 1 of 40 C.F.R. 60.7 for each pollutant monitored for EU ID(s) 1 - 2. The report shall be submitted semiannually, postmarked by the 30th day following the end of each 6-month period, except when more frequent reporting is specifically required by an applicable subpart, case-by-case basis, or the EPA, as follows:

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

⁶ The Federal EEMSP report is not the same as the State excess emission report required by Condition 54.

16.1 If the total duration of excess emissions for the reporting period is less than one percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than five percent of the total operating time for the reporting period, submit a summary report form **unless** the EEMSP report described in Condition 15 is requested, or

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

16.2 If the total duration of excess emissions for the reporting period is one percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is five percent or greater of the total time for the reporting period, then submit a summary report form **and the EEMSP** described in Condition 15.

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

17. NSPS Subpart A Performance (Source) Tests. The Permittee shall conduct initial source tests according to Section 6 and as indicated in this condition on any affected facility within 60 days after achieving the maximum production rate at which the unit will be operated, but not later than 180 days after initial startup, and at such other times as may be required by EPA, and shall provide the Department and EPA with a written report of the results of the source test. The Permittee shall:

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

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

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

17.2 Conduct source tests under conditions specified by EPA to be based on representative performance of EU ID(s) 1 - 2.

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

17.3 Notify the Department and EPA at least 30 days in advance of the source test.

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

17.4 Provide adequate sampling ports, safe sampling platform(s), safe access to sampling platform(s), and utilities for sampling and testing equipment.

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

18. NSPS Subpart A Good Air Pollution Control Practice. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate EU IDs 1 and 2 including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The Administrator will determine whether acceptable operating and maintenance procedures are being used based on information available to the Department which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance records, and inspections of EU IDs 1 and 2.

[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.11(d), Subpart A, 7/1/07]

- 19. NSPS Subpart A Credible Evidence.** For the purpose of submitting compliance certifications or establishing whether or not the Permittee has violated or is in violation of the standards set forth in Conditions 21 and 22, nothing in 40 C.F.R. Part 60 shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether EU IDs 1 and 2 would have been in compliance with applicable requirements of 40 C.F.R. Part 60 if the appropriate performance or compliance test or procedure had been performed.

[18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.11(g), Subpart A, 7/1/07]

- 20. NSPS Subpart A Concealment of Emissions.** The Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of a standard set forth in Conditions 21 and 22. 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), 7/25/08]
[40 C.F.R. 60.12, Subpart A, 7/1/07]

Turbines Subject to NSPS Subpart GG, EU IDs 1 and 2

- 21. NSPS Subpart GG NO_x Standard.** The Permittee shall not allow the exhaust gas concentration of NO_x from EU IDs 1 and 2 to exceed 176 ppmv at 15 percent O₂ dry exhaust basis.

[18 AAC 50.040(a)(2)(V), 7/25/08]
[40 C.F.R. 60.332(a)(2) & (d), Subpart GG, 7/1/07]

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

21.2 Monitoring

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3)(i) & (c)(6), 7/2/07]

- a. **Periodic Testing.** For each turbine subject to Condition 21 that operates for 400 hours or more in any 12-month period during the life of this permit, the Permittee shall satisfy either Condition 21.2a(i) or 21.2a(i)(A)
- (i) For existing turbines whose latest emissions source testing was certified as operating at less than or equal to 90% of the limit shown in Condition 21, the Permittee shall conduct a NO_x and O₂ source test under 40 C.F.R. 60, Appendix A, Method 20, or Method 7E and either Method 3 or 3A, within the first applicable criteria below in the noted timeframe no later than the listed permit expiration date, except as set out in Condition 21.2a(ii):
- (A) Within 5 years of the latest performance test, or

- (B) Within 1 year of the date of issue of this permit if the last source test occurred greater than five years prior to issuance of this permit, or
 - (C) Within 1 year after exceeding 400 hours of operation in a 12-month period if the last source test occurred greater than 5 years prior to the exceedence.
- (ii) For existing turbines whose latest emissions source testing was certified as operating at greater than 90% of the limit shown in Condition 21, the Permittee shall conduct a NO_x and O₂ source test under 40 C.F.R. 60, Appendix A-7, Method 20 or Method 7E annually until two consecutive tests show performance results certified at less than or equal to 90% of the limit of Condition 21.
- b. **Substituting Test Data.** The Permittee may use a Method 20 or Method 7E test under Conditions 21.2a performed on only one of a group of turbines to satisfy the requirements of those conditions for the other turbines in the group if
- (i) the Permittee demonstrates that test results are less than 90 percent of the emission limit of Condition 21, and are projected under Condition 21.2c to be less than 90 percent of the limit at maximum load;
 - (ii) for any source test done after the issuance date of this permit, the Permittee identifies in a source test plan under Condition 46
 - (A) the turbine to be tested;
 - (B) the other turbines in the group that are to be represented by the test; and
 - (C) why the turbine to be tested is representative, including that each turbine in the group
 - (1) is located at a stationary source operated and maintained by the Permittee;
 - (2) is tested under close to identical ambient conditions;
 - (3) is the same make and model and has identical injectors and combustor;
 - (4) uses the same fuel type from the same source.

- (iii) The Permittee may not use substitute test results to represent emissions from a turbine or group of turbines if that turbine or group of turbines is operating at greater than 90% of the emission limit of Condition 21.

c. Load.

- (i) The Permittee shall conduct all tests under Condition 21.2 in accordance with 40 C.F.R. 60.335, except as otherwise approved in writing by the Department, or by EPA if the circumstances at the time of the EPA approval are still valid. For the highest load condition, if it is not possible to operate the turbine during the test at maximum load, the Permittee will test the turbine when operating at the highest load achievable by the turbine under the ambient and stationary source operating conditions in effect at the time of the test.
- (ii) The Permittee shall demonstrate in the source test plan for any test performed after the issue date of this permit whether the test is scheduled when maximum NO_x emissions are expected.
- (iii) If the highest operating rate tested is less than the maximum load of the tested turbine or another turbine represented by the test data,
 - (A) for each such turbine the Permittee shall provide to the Department as an attachment to the source test report
 - (1) additional test information from the manufacturer or from previous testing of units in the group of turbines; if using previous testing of the group of turbines, the information must include all available test data for the turbines in the group, and
 - (2) a demonstration based on the additional test information that projects the test results from Condition 21.2 to predict the highest load at which emissions will comply with the limit in Condition 21;
 - (B) the Permittee shall not operate any turbine represented by the test data at loads for which the Permittee's demonstration predicts that emissions will exceed the limit of Condition 21;
 - (C) the Permittee shall comply with a written finding prepared by the Department that
 - (1) the information is inadequate for the Department to reasonably conclude that compliance is assured at any load greater than the test load, and that the Permittee must not exceed the test load;

- (2) the highest load at which the information is adequate for the Department to reasonably conclude that compliance assured is less than maximum load, and the Permittee must not exceed the highest load at which compliance is predicted, or
- (3) the Permittee must retest during a period of greater expected demand on the turbine; and
- (D) the Permittee may revise a load limit by submitting results of a more recent Method 20 or Method 7E test done at a higher load, and, if necessary, the accompanying information and demonstration described in Condition 21.2c(iii)(A); the new limit is subject to any new Department finding under Condition 21.2c(iii)(C) and
- (iv) In order to perform a Method 20 or Method 7E emission test, the Permittee may operate a turbine at a higher load than that prescribed by Condition 21.2c(iii).
- (v) For the purposes of Conditions 21.2 through 21.4, maximum load means the hourly average load that is the smallest of
 - (A) 100 percent of manufacturer's design capacity of the gas turbine at ISO standard day conditions;
 - (B) the highest load allowed by an enforceable condition that applies to the turbine; or
 - (C) the highest load possible considering permanent physical restraints on the turbine or the equipment which it powers.

21.3 Recordkeeping.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3)(ii) & (c)(6), 7/2/07]

- a. The Permittee shall comply with the following for each turbine for which a demonstration under Condition 21.2c(iii) does not show compliance with the limit of Condition 21 at maximum load.
 - (i) The Permittee shall keep records of
 - (A) load; or
 - (B) as approved by the Department, surrogate measurements for load and the method for calculating load from those measurements.

- (ii) Records in Condition 21.3a shall be hourly or otherwise as approved by the Department.
 - (iii) Within one month after submitting a demonstration under Condition 21.2c(iii)(A)(2) that predicts that the highest load at which emissions will comply is less than maximum load, or within one month of a Department finding under Condition 21.2c(iii)(C), whichever is earlier, the Permittee shall propose to the Department how they will measure load or load surrogates, and shall propose and comply with a schedule for installing any necessary equipment and beginning monitoring. The Permittee shall comply with any subsequent Department direction on the load monitoring methods, equipment, or schedule.
- b. For any turbine subject to Condition 21, that will operate less than 400 hours in any 12 consecutive months, keep monthly records of the hours of operation.

21.4 Reporting.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j)(4), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii) & (c)(6), 7/2/07]

- a. In each stationary source operating report under Condition 55 the Permittee shall list for each turbine tested or represented by testing at less than maximum load and for which the Permittee must limit load under Condition 21.2c(iii)
- (i) the load limit;
 - (ii) the turbine identification; and
 - (iii) the highest load recorded under Condition 21.3a during the period covered by the operating report.
- b. In each stationary source operating report under Condition 55 for each turbine for which Condition 21.2 has not been satisfied because the turbine normally operates less than 400 hours in any 12 consecutive months, the Permittee shall identify
- (i) the turbine;
 - (ii) the highest number of operating hours for any 12 consecutive months ending during the period covered by the report; and
 - (iii) any turbine that operated for 400 or more hours.
- c. The Permittee shall report under Condition 54 if
- (i) a test result exceeds the emission standard;

- (ii) Method 20 or Method 7E testing is required under Condition 21.2 or 21.3b but not performed, or
- (iii) the turbine was operated at a load exceeding that allowed by Conditions 21.2c(iii)(B) and 21.2c(iii)(C); exceeding a load limit is deemed a single violation rather than a multiple violation of both monitoring and the underlying emission limit.

[18 AAC 50.220(a) - (c), 10/1/04 and 18 AAC 50.040(a)(1), 7/25/08]
[40 C.F.R. 60.8(b), Subpart A, 7/01/07]

22. NSPS Subpart GG Sulfur Standard. The Permittee shall not allow the sulfur content for the fuel burned in EU IDs 1 and 2 to exceed 0.8 percent by weight.

[40 C.F.R. 60.333-60.333(b), Subpart GG, 7/1/07]

22.1 **Monitoring** - Fuel gas sulfur monitoring shall be performed semi-annually for fuel gas with a hydrogen sulfide concentration less than 2,000 ppmw and daily for fuel gas with a hydrogen sulfide concentration greater than 2,000 ppmw. The hydrogen sulfide concentration used to determine the frequency shall be the most recent sample of the gas burned. Sampling results shall be reported annually to EPA Region 10 (Air Enforcement and Program Support Unit).

- a. If the quality of fuel changes such that sulfur content increase substantially or the source of the fuel changes, UOCC shall sample for sulfur within two weeks of the change and shall notify EPA within 30 days.
- b. Monitor sulfur content of the fuel gas using the length of stain tube test described in ASTM Method D 4810-88 and D 4913-89, or Gas Producer's Association Method 2377-86.
- c. The fuel sulfur analysis required under Condition 22.1 may be performed by the owner or operator, a service contractor retained by the owner or operator, and fuel vendor, or any other qualified agency.

[18 AAC 50.040(a)(2)(V), 7/25/08]
[40 C.F.R. 60.333-60.335, Subpart GG, 7/1/07]
[EPA Custom Fuel Monitoring Schedule for UOCC Cook Inlet Facilities, 10/17/02]

22.2 Recordkeeping – Keep records of monitoring results required by Condition 22.1.

[18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(ii), 7/2/07]

22.3 Reporting - For the purpose of EEMSP reports and operating report required under Conditions 54 and 55, report any daily period during which the sulfur content of the fuel being fired exceeds 0.8 percent sulfur by weight or if the emissions exceed 150 ppmvd.

[40 C.F.R. 60.334(c)(2), Subpart GG, 7/1/07]

Section 5. General Conditions

Standard Terms and Conditions

- 23.** 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), 12/1/04 and 18 AAC 50.345(a) & (e), 11/9/08]

- 24.** 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), 12/1/04 and 18 AAC 50.345(a) & (f), 11/9/08]

- 25.** The permit does not convey any property rights of any sort, nor any exclusive privilege.

[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (g), 11/9/08]

- 26. Administration Fees.** The Permittee shall pay to the Department all assessed permit administration fees. Administration fee rates are set out in 18 AAC 50.400-405.

[18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.400, 7/25/2008; 18 AAC 50.403, 12/3/05 and 18 AAC 50.405, 1/29/05]
[AS 37.10.052(b), 11/04 and AS 46.14.240, 6/7/03]

- 27. Assessable Emissions.** 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 assessable emission fee rate is set out in 18 AAC 50.410(b). The Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit in quantities greater than 10 tons per year. The quantity for which fees will be assessed is the lesser of

27.1 the stationary source's assessable potential to emit of 1,219 TPY; or

27.2 the stationary source's projected annual rate of emissions that will occur from July 1 to the following June 30, based upon actual annual emissions emitted during the most recent calendar year or another 12-month period approved in writing by the Department, when demonstrated by

- 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.

[18 AAC 50.040(j)(3) 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18 AAC 50.035 and 18 AAC 50.346(b)(1), 11/9/08;
18 AAC 50.410, 6/18/09; and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

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

28.1 no later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions to ADEC, Air Permits Program, ATTN: Assessable Emissions Estimate, 410 Willoughby Ave., Juneau, AK 99801-1795; the submittal must include all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates; or

28.2 if no estimate is submitted on or before March 31 of each year, emission fees for the next fiscal year will be based on the potential to emit set forth in Condition 27.1.

[18 AAC 50.040(j)(3), 7/25/08; 18 AAC 50.326(j)(1), 12/1/04; 18AAC 50.346(b)(1), 11/9/08, 18 AAC 50.410, 6/18/09; and 18 AAC 50.420, 01/29/05]
[40 C.F.R. 71.5(c)(3)(ii), 7/2/07]

29. Good Air Pollution Control Practice. The Permittee shall do the following for EU IDs 3 - 20:

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

[18 AAC 50.030, 7/25/08; 18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.346(b)(5), 10/1/04]

30. 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), 10/1/04]

31. 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), 10/1/04; 18 AAC 50.040(e), 7/25/08; 18 AAC 50. 326(j)(3), 12/1/04 and 18 AAC 50.346(c), 11/9/08]

32. 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 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), 7/25/08]

33. 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, 5/26/72; 18 AAC 50.040(e), 7/25/08; 18 AAC 50.326(j)(3), 12/1/04
and 18 AAC 50.346(a), 11/9/08]
[40 C.F.R. 71.6(a)(3), 7/2/07]

33.1 Monitoring, Record Keeping, and Reporting for Condition 33

- a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 54.
- b. As soon as practicable after becoming aware of a complaint that is attributable to emissions from the stationary source, the Permittee shall investigate the complaint to identify emissions that the Permittee believes have caused or are causing a violation of Condition 33.

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

- a. 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 33; or
- b. the Department notifies the Permittee that it has found a violation of Condition 33.

33.3 The Permittee shall keep records of

- a. the date, time, and nature of all emissions complaints received;
- b. the name of the person or persons that complained, if known;
- c. a summary of any investigation, including reasons the Permittee does or does not believe the emissions have caused a violation of Condition 33; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

33.4 With each stationary source operating report under Condition 55, the Permittee shall include a brief summary report which must include

- a. the number of complaints received;
- b. the number of times the Permittee or the Department found corrective action necessary;
- c. the number of times action was taken on a complaint within 24 hours; and

- d. the status of corrective actions the Permittee or Department found necessary that were not taken within 24 hours.

33.5 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.

- 34. Technology-Based Emission Standard.** If an unavoidable emergency, malfunction, or non-routine repair, as defined in 18 AAC 50.235(d), causes emissions in excess of a technology-based emission standard⁷ listed in Conditions 21, 22, and 36, the Permittee shall take all reasonable steps to minimize levels of emissions that exceed the standard. Excess emissions reporting under Condition 54 requires information on the steps taken to minimize emissions. Monitoring of compliance for this condition consists of the report required under Condition 54.

[18 AAC 50.235(a) & 50.326(j)(4), 10/1/04 and 18 AAC 50.040(j)(4), 7/25/08]
[40 C.F.R. 71.6(c)(6), 7/2/07]

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

[18 AAC 50.040(b)(1) & (2)(F), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 61, Subparts A & M, and Appendix A, 5/16/07]

- 36. Refrigerant Recycling and Disposal.** The Permittee shall comply with the standards for recycling and emission reduction of refrigerants set forth in 40 C.F.R. 82, Subpart F.

[18 AAC 50.040(d), 7/25/08 & 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 82, Subpart F, 7/1/07]

Halon Prohibitions, 40 C.F.R. 82

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

[18 AAC 50.040(d), 7/25/08]
[40 C.F.R. 82.174 (b) - (d), 7/1/07]

37.1 Do not use a substitute which a person knows or has reason to know was manufactured, processed, or imported in violation of the regulations of 40 C.F.R. 82 Subpart G or knows or has reason to know was manufactured, processed, or imported in violation of any use restriction in the acceptability determination, after the effective date of any rulemaking imposing such restrictions.

⁷ *Technology-based emission standard* means a best available control technology standard (BACT); a lowest achievable emission rate standard (LAER); a maximum achievable control technology standard established under 40 C.F.R. 63, Subpart B, adopted by reference in 18 AAC 50.040(c); a standard adopted by reference in 18 AAC 50.040(a) or (c); and any other similar standard for which the stringency of the standard is based on determinations of what is technologically feasible, considering relevant factors.

- 37.2 Do not use a substitute without adhering to any use restrictions set by the acceptability decision, after the effective date of any rulemaking imposing such restrictions.
- 37.3 Do not use a substitute after the effective date of any rulemaking adding such substitute to the list of unacceptable substitutes.
- 38.** The Permittee shall comply with the following prohibitions set out in 40 C.F.R. 82.270.
[18 AAC 50.040(d), 7/25/08]
[40 C.F.R. 82.270 (b)-(f), 7/1/07]
- 38.1 No person testing, maintaining, servicing, repairing, or disposing of halon-containing equipment or using such equipment for technician training may knowingly vent or otherwise release into the environment any halon used in such equipment, as follows:
- 38.2 De minimis releases associated with good faith attempts to recycle or recover halon are not subject to this prohibition.
- 38.3 Release of residual halon contained in fully discharged total flooding fire extinguishing systems would be considered a de minimis release associated with good faith attempts to recycle or recover halon.
- 38.4 Release of halon during testing of fire extinguishing systems is not subject to this prohibition if the following Conditions 38.4a - 38.4d are met:
- a. systems or equipment employing suitable alternative fire extinguishing agents are not available;
 - b. system or equipment testing requiring release of extinguishing agent is essential to demonstrate system or equipment functionality;
 - c. failure of the system or equipment would pose great risk to human safety or the environment; and
 - d. a simulant agent cannot be used in place of the halon during system or equipment testing for technical reasons.
- 38.5 Releases of halon associated with research and development of halon alternatives, and releases of halon necessary during analytical determination of halon purity using established laboratory practices are exempt from this prohibition.
- 38.6 This prohibition does not apply to qualification and development testing during the design and development process of halon-containing systems or equipment when such tests are essential to demonstrate system or equipment functionality and when a suitable simulant agent cannot be used in place of the halon for technical reasons.

- 38.7 This prohibition does not apply to the emergency release of halon for the legitimate purpose of fire extinguishing, explosion inerting, or other emergency applications for which the equipment or systems were designed.
- 38.8 Organizations that employ technicians who test, maintain, service, repair or dispose of halon-containing equipment shall take appropriate steps to ensure that technicians hired on or before April 6, 1998 will be trained regarding halon emissions reduction by September 1, 1998. Technicians hired after April 6, 1998 shall be trained regarding halon emissions reduction within 30 days of hiring, or by September 1, 1998, whichever is later.
- 38.9 No person shall dispose of halon- containing equipment except by sending it for halon recovery to a manufacturer operating in accordance with NFPA⁸ 10 and NFPA 12A standards, a fire equipment dealer operating in accordance with NFPA 10 and NFPA 12A standards or a recycler operating in accordance with NFPA 10 and NFPA 12A standards. This provision does not apply to ancillary system devices such as electrical detection control components which are not necessary to the safe and secure containment of the halon within the equipment, to fully discharged total flooding systems, or to equipment containing only de minimis quantities of halon.
- 38.10 No person shall dispose of halon except by sending it for recycling to a recycler operating in accordance with NFPA 10 and NFPA 12A standards, or by arranging for its destruction using one of the following controlled processes:
- a. Liquid injection incineration;
 - b. Reactor cracking;
 - c. Gaseous/fume oxidation;
 - d. Rotary kiln incineration;
 - e. Cement kiln;
 - f. Radio frequency plasma destruction; or
 - g. An EPA-approved destruction technology that achieves a destruction efficiency of 98 percent or greater.
- 38.11 No owner of halon-containing equipment shall allow halon release to occur as a result of failure to maintain such equipment.

Open Burning Requirements

39. Open Burning. The Permittee shall not conduct open burning at this stationary source.

[18 AAC 50.065, 1/18/97; 18 AAC 50.040(j), 7/25/08 and 18 AAC 50.326(j), 12/1/04]

⁸ National Fire Protection Association

Section 6. General Source Testing and Monitoring Requirements

- 40. 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), 10/1/04 and 18 AAC 50.345(a) & (k), 11/9/08]

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

[18 AAC 50.220(b), 10/1/04]

- 41.1 at a point or points that characterize the actual discharge into the ambient air; and
- 41.2 at the maximum rated burning or operating capacity of the source or another rate determined by the Department to characterize the actual discharge into the ambient air.

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

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

[18 AAC 50.220(c)(1)(A), 10/1/04 and 18 AAC 50.040(a), 7/25/08]
[40 C.F.R. 60, 7/1/07]

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

[18 AAC 50.030, 11/9/08, and 18 AAC 50.220(c)(1)(D), 10/1/04]

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

[18 AAC 50.040(a)(3), 7/25/08, and 18 AAC 50.220(c)(1)(E), 10/1/04]
[40 C.F.R. 60, Appendix A, 7/1/07]

- 42.4 Source testing for emissions of PM-10 must be conducted in accordance with the procedures specified in 40 C.F.R. 51, Appendix M, Methods 201 or 201A and 202.

[18 AAC 50.035(b)(2), 11/9/08; and 50.220(c)(1)(F), 10/1/04]
[40 C.F.R. 51, Appendix M, 7/01/07]

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

[18 AAC 50.040(c)(24), 7/25/08 and 50.220(c)(2), 10/1/04]
[40 C.F.R. 63, Appendix A, Method 301, 7/16/07]

43. 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 source 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), 10/1/04 and 50.990(102), 7/25/08]

44. Test Exemption. The Permittee is not required to comply with Conditions 46, 47 and 48 when the exhaust is observed for visible emissions by Method 9 Plan (Condition 2.1) or Smoke/No Smoke Plan (Condition 2.2).

[18 AAC 50.345(a), 11/9/08]

45. 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), 11/9/08]

46. Test Plans. Except as provided in Condition 44, 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 source 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 40 and at least 30 days before the scheduled date of any test unless the Department agrees in writing to some other time period. Retesting may be performed without resubmitting the plan.

[18 AAC 50.345(a) & (m), 11/9/08]

47. Test Notification. Except as provided in Condition 44, 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), 11/9/08]

48. Test Reports. Except as provided in Condition 44, within 60 days after completing a source test, the Permittee shall submit two copies 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 additionally certify the results in the manner set out in Condition 51. 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), 11/9/08]

- 49. Particulate Matter Calculations.** In source testing for compliance with the particulate matter standards in Conditions 6 and 12.2, the three-hour average is determined using the average of three one-hour test runs.

[18 AAC 50.220(f), 7/25/08]

Section 7. General Recordkeeping and Reporting Requirements

Recordkeeping Requirements

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

[18 AAC 50.326(j), 12/1/04]
[40 C.F.R 60.7(f), Subpart A, 7/1/07 and 71.6(a)(3)(ii)(B), 7/2/07]

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

Reporting Requirements

51. 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.

- 51.1 The Department may accept an electronic signature on an electronic application or other electronic record required by the Department if
 - a. a certifying authority registered under AS 09.25.510 verifies that the electronic signature is authentic; and

- b. the person providing the electronic signature has made an agreement, with the certifying authority described in Condition 51.1a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature,

[18 AAC 50.345(a) & (j), 11/9/08; 18 AAC 50.205, 10/1/04; and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 52. Submittals.** Unless otherwise directed by the Department or this permit, the Permittee shall send an original and one copy of reports, compliance certifications, and other submittals required by this permit to **ADEC, Air Permits Program, 610 University Ave., Fairbanks, AK 99709-3643, ATTN: Compliance Technician.** The Permittee may, upon consultation with the Compliance Technician regarding software compatibility, provide electronic copies of data reports, emission source test reports, or other records under a cover letter certified in accordance with Condition 51.

[18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

- 53. 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), 11/9/08; 18 AAC 50.200, 10/1/04; and 18 AAC 50.326(a) & (j), 12/1/04]
[40 C.F.R. 71.5(a)(2) & 71.6(a)(3), 7/2/07]

- 54. Excess Emissions and Permit Deviation Reports.**

[18 AAC 50.235(a)(2), & 50.240(c), 10/1/04; 18 AAC 50.326(j)(3), 12/1/04]
[18 AAC 50.346(b)(2) & (3), 11/9/08]

54.1 Except as provided in Condition 33, the Permittee shall report all emissions or operations that exceed or deviate from the requirements of this permit as follows:

- a. in accordance with 18 AAC 50.240(c), as soon as possible after the event commenced or is discovered, report
 - (i) emissions that present a potential threat to human health or safety; and
 - (ii) excess emissions that the Permittee believes to be unavoidable;
- b. in accordance with 18 AAC 50.235(a), within two working days after the event commenced or was discovered, report an unavoidable emergency, malfunction, or non routine repair that causes emissions in excess of a technology based emission standard;
- c. report all other excess emissions and permit deviations

- (i) within 30 days of the end of the month in which the emissions or deviation occurs, except as provided in Condition 54.1c(ii); and
- (ii) if a continuous or recurring excess emissions is not corrected within 48 hours of discovery, within 72 hours of discovery unless the Department provides written permission to report under Condition 54.1c(i); and
- (iii) for failure to monitor, as required in other applicable conditions of this permit.

54.2 When reporting excess emissions or permit deviations, the Permittee must report using either the Department's on-line form, which can be found at <http://www.dec.state.ak.us/air/ap/site.htm> or <https://myalaska.state.ak.us/deca/air/airtoolsweb/>, or if the Permittee prefers, the form contained in Section 12 of this permit. The Permittee must provide all information called for by the form that is used.

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

55. Operating Reports. During the life of this permit⁹, the Permittee shall submit to the Department one original and one copy of an operating report by August 1 for the period January 1 to June 30 of the current year and by February 1 for the period July 1 to December 31 of the previous year.

[18 AAC 50.346(a), 11/9/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(3)(iii)(A), 7/2/07]

55.1 The operating report must include all information required to be in operating reports by other conditions of this permit. The Permittee may, upon consultation with the Compliance Technician regarding software compatibility, provide electronic copies of data reports, emission source test reports, or other records under a cover letter certified in accordance with Departmental submission requirements

55.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 55.1, either

- a. The Permittee shall identify
 - (i) the date of the deviation;
 - (ii) the equipment involved;
 - (iii) the permit condition affected;

⁹ "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.

- (iv) a description of the excess emissions or permit deviation; and
- (v) any corrective action or preventive measures taken and the date of such actions; or

b. When excess emissions or permit deviations have already been reported under Condition 54 the Permittee shall cite the date or dates of those reports.

55.3 The operating report must include a listing of emissions monitored under Conditions 2.1e and 2.2c, 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.

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

56. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department one original¹⁰ and one copy of an annual compliance certification report. The Permittee, at their discretion, may submit one copy in electronic format (PDF or other Department compatible image format).

56.1 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;

¹⁰ See Condition 56.2 for clarification on number of reports required.

56.2 **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

56.3 In addition, submit a copy of the report directly to the EPA-Region 10, Office of Air Quality, M/S OAQ-107, 1200 Sixth Avenue, Seattle, WA 98101.

[18 AAC 50.205, 10/1/04; 18 AAC 50.345(a) & (j), 11/9/08; and 50.326(j), 12/1/04]
[40 C.F.R. 71.6(c)(5), 7/2/07]

57. NSPS and NESHAP Reports. The Permittee shall:

57.1 attach to the facility operating report required by Condition 55, a copy of any NSPS and NESHAPs reports submitted to the U.S. Environmental Protection Agency (EPA) Region 10; and

57.2 upon request by the Department, notify and provide a written copy of any EPA-granted alternative monitoring requirement, custom monitoring schedule or waiver of the federal emission standards, record keeping, monitoring, performance testing, or reporting requirements.

[18 AAC 50.326(j)(4), 12/1/04, and 18 AAC 50.040(j), 7/25/08]
[40 CFR 71.6(c)(6), 7/2/07]

Section 8. Permit Changes and Renewal

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

58.1 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;

58.2 The information shall be submitted to the same address as in Condition 56.3.

58.3 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

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

[18 AAC 50.040(j)(7), 18 AAC 50.326(b), 12/1/04]
[40 C.F.R. 71.10(d)(1), 7/2/07]

59. 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), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(8), 7/2/07]

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

[18 AAC 50.040(j)(4), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(12), 7/2/07]

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

60.2 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;

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

60.4 The Permittee shall keep a record describing changes made at the 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.

61. Operational Flexibility. The Permittee may make changes within the permitted stationary source without requiring a permit revision if the changes are not modifications under any provision of Title I of the Act and the changes do not exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions):

61.1 The Permittee shall provide EPA and the Department with a notification no less than 7 days in advance of the proposed change.

61.2 For each such change, the written notification required above 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.

61.3 The permit shield described in 40 C.F.R. 71.6(f) shall not apply to any change made pursuant to Condition 61.

[18 AAC 50.040(j)(4), 7/25/08 and 18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.6(a)(13), 7/2/07]

62. Permit Renewal. To renew this permit, the Permittee shall submit an application under 18 AAC 50.326 no sooner than **[18 months before]** and no later than **[6 months before the expiration date of this permit]. The renewal application shall be complete before the permit expiration date listed on the cover page of this permit.** Permit expiration terminates the 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), 7/25/08 and 18 AAC 50.326(c)(2) & (j)(2), 12/1/04]
[40 CFR 71.5(a)(1)(iii) and 71.7(b) & (c)(1)(ii), 7/2/07]

63. Permit Applications. The Permittee shall send original applications for modification, or renewal of this permit and application addenda to the Department's Anchorage office¹¹. In addition, the Permittee may provide electronic copies of application documents; portable document format (PDF) or MS Word are acceptable formats.

[18 AAC 50.326(j), 12/1/04]
[40 C.F.R. 71.7(a)(1)(i), 7/2/07]

¹¹ The current address for the Anchorage office is: ADEC, 619 East Ship Creek, Suite 249, Anchorage, AK 99501

64. The Permittee shall submit to the US Environmental Protection Agency (EPA) to the same address as in Condition 56.3:

64.1 a copy of any application for modification, or renewal of this permit and application addenda, at the time the application or addendum is submitted to the Department;

64.2 to the extent practicable, the Permittee shall provide to EPA applications in computer-readable format compatible with EPA's national database management system. In the interim until EPA implements such system, portable document format (pdf) or MS Word are acceptable formats.

[18 AAC 50.040(j)(7), 7/25/08; and 18 AAC 50.326(b), 12/1/04]

[40 CFR 70.10(d)(1)), 7/2/07]

Section 9. Compliance Requirements

General Compliance Requirements

- 65.** Compliance with permit terms and conditions is considered to be compliance with those requirements that are
- 65.1 included and specifically identified in the permit; or
 - 65.2 determined in writing in the permit to be inapplicable.
[18 AAC 50.326(j)(3), 12/1/04; and 18 AAC 50.345(a) & (b), 11/9/08]
- 66.** The Permittee must comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14.120(c), 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
- 66.1 an enforcement action;
 - 66.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280; or
 - 66.3 denial of an operating permit renewal application.
[18 AAC 50.326(j)(3), 12/1/04; and 18 AAC 50.345(a) & (c), 11/9/08]
- 67.** 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), 10/1/04; and 18 AAC 50.345(a) & (d), 11/9/08]
- 68.** 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
- 68.1 enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
 - 68.2 have access to and copy any records required by the permit;
 - 68.3 inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
 - 68.4 sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.
[18 AAC 50.326(j)(3), 12/1/04 and 18 AAC 50.345(a) & (h), 11/9/08]

- 69.** For applicable requirements with which the **Monopod Platform** is in compliance, the Permittee will continue to comply with such requirements.

[18 AAC 50.040(j), 7/25/08 & 18 AAC 50.326(j), 12/1/04]

[40 CFR 71.6(c)(3) & 71.5(c)(8)(iii)(A), 7/2/07]

Section 10. Permit As Shield from Inapplicable Requirements

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

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

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

70.2 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), 12/1/04]
 [40 C.F.R. 71.6(f)(3)(i) and (ii), 7/2/07]

71. Table B identifies the emission units that are not subject to the specified requirements at the time of permit issuance. If any of the requirements listed in Table B becomes applicable during the permit term, the Permittee shall comply with such requirements on a timely basis including, but not limited to, providing appropriate notification to EPA, obtaining a construction permit and/or an operating permit revision.

[18 AAC 50.326(j), 12/1/04]
 [40 C.F.R. 71.6(f)(1)(ii), 7/2/07]

Table B - Permit Shields Granted.

EU ID	Non-Applicable Requirements	Reason for non-applicability
EU IDs 1, 2	40 CFR 60, Subpart A, Sections 60.7(a)(1), (a)(2), and (a)(3)	These requirements are one-time only requirements at startup. These shields apply to emission units as currently installed and may not apply upon modification, reconstruction or replacement.
EU IDs 1, 2	40 CFR 60, Subpart A, Sections 60.7(a)(5), and (a)(7)	There are no continuous monitoring systems required for these two NSPS affected facilities under the applicable subpart.
EU IDs 1, 2	40 CFR 60, Subpart A, Sections 60.8	Initial performance testing has been completed. This shield applies to emission units as currently installed and may not apply upon modification, reconstruction or replacement.

EU ID	Non-Applicable Requirements	Reason for non-applicability
EU IDs 3, 4, 5, and 6	40 CFR 60, Subpart GG	These turbines were constructed prior to October 3, 1997 and have not been modified or reconstructed since that time. In the event that these turbines are reconstructed or modified during the term of this permit, they become subject to the requirements of Subpart KKKK.
EU IDs 1, 2	40 CFR 60.333(a)	Permittee must comply with 60.633(a) or (b). UOCC has chosen to comply with 60.633(b).
EU IDs 1, 2	40 CFR 60.334(a) and (b)	These requirements apply only to turbines using water injection for NOx control. Turbines 1 and 2 do not use water injection for NOx control.
EU IDs 1, 2	40 CFR 60.334(c) - (g)	These requirements specify optional monitoring methods that Union Oil Company of California chooses not to conduct.
EU IDs 1, 2	40 CFR 60.334(h)(2)	40 CFR 60.334(h)(2) requires Permittees who claim an allowance for fuel bound nitrogen to monitor the nitrogen content of the fuel combusted in the turbines. Union Oil Company of California has chosen not to claim an allowance for fuel bound nitrogen.
EU ID 16	40 CFR 63 Subpart HH	The requirements of 40 CFR 63, Subpart HH are not applicable to the glycol dehydrator (EU ID 16). Pursuant to 40 CFR 63.760(e)(1), this emission unit is exempt from requirements under Subpart HH because Monopod Platform is a stationary source that exclusively processes "black oil", as defined in 40 CFR 63.761.
EU IDs 8-14	40 CFR 63 Subpart ZZZZ	Pursuant to 40 CFR 63.6590(b)(3), these emission units have no applicable requirements under 40 CFR 63, Subpart ZZZZ because these engines are existing spark ignition or existing compression ignition stationary reciprocating internal combustion engines located at an area source of HAP. In the event that these engines are reconstructed or modified during the term of this permit, they may become subject to the requirements of Subpart ZZZZ.

EU ID	Non-Applicable Requirements	Reason for non-applicability
Entire Source	40 CFR 60 Subparts B, C, Ca, Cb, Da, Db, Dc, Ea, Eb, F, G, H, I, J, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, VVa, WW, XX, AAA, BBB, DDD, FFF, GGG, GGGa, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, AAAA, BBBB, CCCC, DDDD, EEEE, FFFF, HHHH	No "affected facilities" within the permitted stationary source.
Entire Source	40 CFR 61 Subparts B, C, D, E, F, H, I, J, K, L, N, O, P, Q, R, T, V, W, Y, BB and FF.	No "affected facilities" within the permitted stationary source.
Entire Source	40 CFR 63 Subparts B, F, G H, L, M, N, O, Q, R, S, T, U, W, X, AA, BB, CC, EE, GG, II, JJ, KK, LL, MM, PP, QQ, RR, WW, XX, YY, CCC, DDD, EEE, GGG, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, AAAA, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS, TTTT, UUUU, VVVV, WWWW, XXXX, AAAAA, BBBB, CCCC, DDDD, EEEEE, FFFFF, GGGGG, HHHHH, IIIII, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN, PPPPP, QQQQQ, RRRRR, SSSSS, and TTTTT	No "affected facilities" within the permitted stationary source. This source is not a major source of HAPs, as defined in 40 CFR 63.2.
Entire Source	40 CFR 82 Subparts A, B, C, D, & G	Not an affected facility, operation, or industry.

Section 11. Visible Emissions Forms

Visible Emissions Field Data Sheet

Certified Observer: _____

Company &
 Stationary
 Source: _____

Location: _____

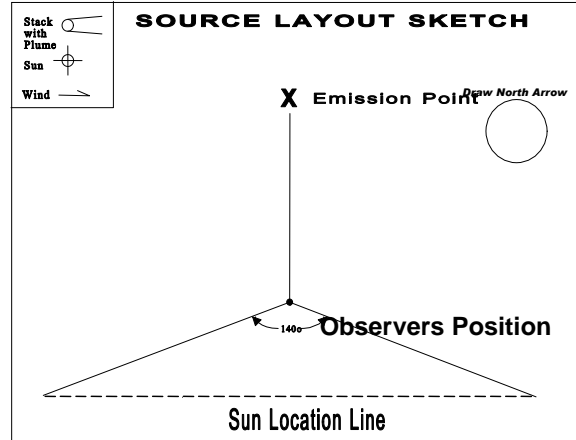
Test No.: _____ Date: _____

Emission Unit: _____

Production Rate/Operating
 Rate: _____

Unit Operating Hours: _____

Hrs. of observation: _____



Clock Time	Initial				Final
Observer location					
Distance to discharge					
Direction from discharge					
Height of observer point					
Background description					
Weather conditions					
Wind Direction					
Wind speed					
Ambient Temperature					
Relative humidity					
Sky conditions: (clear, overcast, % clouds, etc.)					
Plume description:					
Color					
Distance visible					
Water droplet plume? (Attached or detached?)					
Other information					

Section 12. Material Balance Calculation

If the sulfur content of a fuel shipment is greater than 0.75% by weight, calculate the three-hour exhaust concentration of SO₂ 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. = 21 - [vol%**dry O**_{2, exhaust}] = 21 - _____ = _____

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

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

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

SO₂ concentration = A ÷ I = _____ ÷ _____ = _____ ppm

The **wt%*S*_{fuel}**, **wt%*C*_{fuel}**, and **wt%*H*_{fuel}** are equal to the weight percents of sulfur, carbon, and hydrogen in the fuel. These percentages should total 100%.

The fuel weight percent (wt%) of sulfur is obtained pursuant to Condition 9.5. 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 ORSAT analysis 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), 11/9/08]

Section 13. ADEC Notification Form¹²

Stationary Source (Facility) Name

Air Quality Permit Number

Company Name

When did you discover the Excess Emissions/Permit Deviation?

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

When did the event/deviation occur?

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

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

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

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

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

Excess Emissions - Complete Section 1 and Certify.

Deviation from Permit Condition - Complete Section 2 and Certify

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

Section 1. Excess Emissions

a. Was the exceedance: Intermittent or Continuous

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

Start Up /Shut Down

Natural Cause (weather/earthquake/flood)

Control Equipment Failure

Scheduled Maintenance/Equipment Adjustment

Bad fuel/coal/gas

Upset Condition

Other _____

c. **Description**

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

d. Emissions Units Involved:

Identify the emission 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.

Unit ID	Emission Unit Name	Permit Condition Exceeded/Limit/Potential Exceedance

¹² Revised as of August 20, 2008.

e. Type of Incident (Please Check only one).

- Opacity _____ %
 Venting _____ (gas/scf)
 Control Equipment Down
 Fugitive Emissions
 Emission Limit Exceeded
 Other:
 Marine Vessel Opacity
 Flaring

f. Unavoidable Emissions:

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

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

Certify Report (go to end of form)

Section 2 Permit Deviations

(a) Permit Deviation Type (check one only box, corresponding with the section in the permit).

- Source Specific
 Failure to monitor/report
 General Source Test/Monitoring Requirements
 Recordkeeping/Reporting/Compliance Certification
 Standard Conditions Not Included in Permit
 Generally Applicable Requirements
 Reporting/Monitoring for Diesel Engines
 Record Keeping Failure
 Insignificant Source
 Facility Wide
 Other Section _____ (title of section and section number of your permit).

(b) Emission Unit Involved.

Unit ID	Emission Unit Name	Permit Condition / Potential Deviation

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

(c) Description of Potential Deviation:

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

(d) Corrective Actions:

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

Certification:

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

Printed Name: _____ Title: _____ Date: _____

Signature: _____ Phone Number: _____

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

To Submit this Report:

1. Fax to: 907-451-2187;

Or

2. Email to: DEC.AQ.Airreports@alaska.gov - *if faxed or emailed,*

Or

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

Or

4. Phone Notification: 907-451-5173

Phone notifications require a written follow-up report.

Or

5. Submission of information contained in this report can be made electronically at the following website:

<https://myalaska.state.ak.us/deca/air/airtoolsweb/>

if submitted online, report must be submitted by an authorized E-Signer for the Stationary Source.