

# DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## AIR QUALITY CONTROL MINOR PERMIT

**Permit AQ0237MSS03**  
**Revises Permit AQ0237MSS02**

Preliminary – January 28, 2010

The Alaska Department of Environmental Conservation (Department), under the authority of AS 46.14 and 18 AAC 50, issues Air Quality Control Minor Permit AQ0237MSS03 to the Permittee listed below.

**Operator and Permittee:** **Doyon Utilities, LLC**  
P. O. Box 74040  
Fairbanks, Alaska, 99707

**Owner:** Doyon Utilities

**Stationary Source** Fort Richardson Army Base, Electric, Gas, and Sanitary Services

**Location:** Latitude: 61 16' 43"; Longitude 149 41' 47"

**Physical Address:** 600 Richardson Drive, Fort Richardson, Alaska 99505

**Permit Contact:** Kathleen Hook, (907)-455-1540; khook@doyonutilities.com

**Project:** Replacement of Backup Generators

This permit establishes an Owner Requested Limit (ORL) under 18 AAC 50.508(5) to avoid classification under 18 AAC 50 502(c)(3) and revises terms and conditions of Permit AQ0237MSS02 under 18 AAC 50 508(6). The permit satisfies the obligation of the Permittee to obtain a minor permit under 18 AAC 50.

This permit authorizes the Permittee to operate under the terms and conditions of this permit, and as described in the original permit application and subsequent application supplements listed in Section 8 except as specified in this permit.

The Permittee may operate under Permit AQ0237MSS03 upon issuance.

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John F. Kuterbach  
Manager, Air Permits Program

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## ***Section 1. Emission Unit Inventory***

- 1. Authorization.** Permittee is authorized to install and operate Emission Units (EU) EU90 through EU92 listed in Table 1. The Permittee shall notify the Department within seven days of beginning the installation EU90 through EU92. The notification must identify:
  - 1.1 unit number, serial/model number, and rating of the replacement unit;
  - 1.2 unit number, serial/model number, and rating of unit replaced, if any;
  - 1.3 installation date of the replacement unit; and
  - 1.4 anticipated startup date of the replacement unit.
  
- 2. Removal of Emission Units:** The Permittee shall:
  - 2.1 remove existing EU01a through EU01d, EU02a, EU03a, and EU04 before beginning the installation of EU90 through EU92;
  - 2.2 remove EU05 and EU06 listed in Table 1 within thirty days of completing the installation of EU90 through EU92; and
  - 2.3 notify the Department within seven days of removing the emission units. The notification must identify:
    - a. emission unit ID;
    - b. description of the unit;
    - c. make/model number and rating;
    - d. type of fuel burned, and
    - e. removal date.

- 3. Emission Unit Inventory.** Permittee is authorized to operate the emission units listed in Table 1 as described in this permit. Except as noted elsewhere in the permit, information in Table 1 is for information purposes only. The specific unit descriptions do not restrict the Permittee from replacing an emission unit identified in Table 1. The Permittee shall comply with all applicable provisions of AS 46.14 and 18 AAC 50 when installing a replacement emission unit, including any applicable minor or construction permit requirements.

**Table 1 –Minor Permit Emission Unit Inventory**

<b>EU ID</b>	<b>Building</b>	<b>Description</b>	<b>Make/Model</b>	<b>Rating/Size</b>	<b>Fuel Type</b>	<b>Install Date</b>
EU22	772	Boiler	Burnham / V1106	1.328 MMBTU/hr	Natural Gas	2003
EU24	36012	Boiler	Power Flame/C6-G0-30	14.215 MMBTU/hr	Natural Gas	Unknown
EU25	28008	Boiler	Cleaver Brooks/M48-700	4.0 MMBTU/hr	Natural Gas	2003
EU26	28008	Boiler	Cleaver Brooks/M4HP-400	4.0 MMBTU/hr	Natural Gas	Unknown
EU05	772	Emergency Generator	Fairbanks-Morse/31-A-18	2,500 kW	Diesel	1951
EU06	772	Emergency Generator	Fairbanks-Morse/31-A-18	2,500 kW	Diesel	1951
EU13	28008	Emergency Generator	Waukesha/F475DSU	75 kW	Diesel	1990
EU14	28004	Emergency Generator	John Deere/4039TF001	60 kW	Diesel	1980
EU27	35610	Emergency Generator	Cummins / NHC-4-P	60 kW	Diesel	1957
EU28	35620	Emergency Generator	Cummins / HRS-6-P	150 kW	Diesel	1957
EU29	35630	Emergency Generator	Cummins / HRS-6-P	150 kW	Diesel	1957
EU90	Near 36012	Backup Generator	Caterpillar C-175	3,000 kW	Diesel	Est. 2010
EU91	Near 36012	Backup Generator	Caterpillar C-175	3,000 kW	Diesel	Est. 2010
EU92	Near 36012	Backup Generator	Caterpillar C-175	3,000 kW	Diesel	Est. 2010

## ***Section 2. Emission Fees***

- 4. Assessable Emissions.** 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
  - 4.1 the stationary source's assessable potential to emit of 104 TPY; or
  - 4.2 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.
- 5. Assessable Emission Estimates.** Emission fees will be assessed as follows:
  - 5.1 no later than March 31 of each year, the Permittee may submit an estimate of the stationary source's assessable emissions to ADEC, Air Permits Program, ATTN: Assessable Emissions Estimate, 410 Willoughby Ave., Suite 303 Juneau, AK 99811-1800; the submittal must include all of the assumptions and calculations used to estimate the assessable emissions in sufficient detail so the Department can verify the estimates; or
  - 5.2 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 4.1.

### ***Section 3. State Emission Standards and Requirements***

- 6. Visible Emissions (VE) Standards:** The Permittee shall not cause or allow visible emissions, excluding water vapor, emitted from any emission unit listed in Table 1 to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.
- 7. VE Monitoring for Emission Units Firing Natural Gas:** For EU22 through EU26 firing natural gas, monitoring shall consist of a certification in each operating report required in Condition 22 that each emission unit burned only natural gas during the reporting period.
- 8. VE Monitoring for Emission Units Firing Diesel Fuel:** For EU05 through EU14 and EU27 through EU92, the Permittee shall observe the exhaust for VE using either the Method 9 Plan under Condition 8.1 or the Smoke/No Smoke Plan under Condition 8.2. The Permittee may change VE plans for an emission unit at any time unless prohibited from doing so by Condition 8.3.
  - 8.1 Method 9 Plan:** For all 18-minute observations in this plan, Permittee shall observe the exhaust for 18 minutes to obtain 72 consecutive 15-second opacity observations, following 40 CFR 60, Appendix A-4, Method 9, adopted by reference in 18 AAC 50.040(a).
    - a. First Method 9 Observation:** For EU05 through EU14 and EU27 through EU92, observe exhaust for 18 minutes within six months after the issue date of this permit. For any emission unit, observe exhaust within 14 calendar days after changing from the Smoke/No-Smoke Plan in Condition 8.2. For any emission unit replaced during the life 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. Semi-annual Method 9 Observation:** After observing emissions for three consecutive operating months under Condition 8.1b, unless a six-minute average exceeds 15 percent and one or more observations exceed 20 percent, perform 18-minute observations at least semiannually. Perform the semi-annual observations between four and seven months after the previous set of observations.
    - d. Annual Method 9 Observations:** After at least two semi-annual 18-minute observations, unless a six-minute average exceeds 15 percent and one or more individual observations exceed 20 percent, perform 18-minute observations at least annually. Perform annual observations between 10 and 13 months after the previous observations.

- e. **Increased Method 9 Frequency:** If a six-minute average opacity observed during the most recent set of observations exceeds 15 percent and one or more observations exceed 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 8.1c for semi-annual monitoring are met.
- 8.2 **Smoke/No Smoke Plan:** Permittee shall observe the exhaust for the presence or absence of visible emissions, excluding condensed water vapor.
- a. **Initial Monitoring Frequency:** Observe the exhaust 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 for those 30 days, then observe emissions at least once in every calendar month that the emission unit operates.
  - c. **Smoke Observed:** If smoke is observed, either begin the Method 9 Plan of Condition 8.1 or perform the corrective action required under Condition 8.3.
- 8.3 **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 8.2, then the Permittee shall either follow the Method 9 Plan of Condition 8.1 or;
- a. initiate actions to eliminate smoke from the emission unit 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 8.3a
    - (i) take Smoke/No Smoke observation as described in Condition 8.2
      - (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 8.2b; or
    - (ii) if the actions taken under Condition 8.3a do not eliminate the smoke, or if subsequent smoke is observed under the schedule of Condition 8.3c.(i)(A), then observe the exhaust using Method 9 Plan until 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 8.2a.
9. **Visible Emissions Recordkeeping for Method 9 Plan:** If using the Method 9 Plan of Condition 8.1, the Permittee shall keep records as follows:

9.1 The observer shall record the

- a. name of the stationary source, emission unit and location, emission unit type, observer's name and affiliation, and date on the Visible Emissions Field Data Sheet in Attachment 1;
- b. 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) on the sheet at the time opacity observations are initiated and completed;
- c. 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;
- d. opacity observations to the nearest five percent at 15-second intervals on the Visible Emissions Observations record in Attachment 2; and
- e. 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.

9.2 To determine the six-minute average opacity, divide the observations recorded on the VE observation record sheet into sets of 24 consecutive observations. The sets need not be consecutive in time and two sets shall not overlap. For each set of 24 observations, calculate the average by summing the opacity of the 24 observations and dividing by 24. Record the average opacity on the VE observation record sheet.

9.3 Calculate and record the highest 18-consecutive minutes averages observed.

**10. Visible Emissions Recording for Smoke/No Smoke Plan:** If using the Smoke/No Smoke plan, record the following in a written log for each observation and submit copies of the recorded information upon request of the Department:

- 10.1 date and time of the observation;
- 10.2 ID of the emission unit listed in Table 1 that was observed;
- 10.3 whether visible emissions are present or absent in the exhaust;
- 10.4 description of the background to the exhaust during the observation;
- 10.5 if emission unit started operation on the day of the observation, the startup time of the emission unit;
- 10.6 name and title of the person making the observation; and
- 10.7 operating rate (load or fuel consumption rate).

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

11.1 Include in each operating report under Condition 22

- a. which visible emission plan of Condition 8 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 opacity observation results 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 exceeded 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 required VE monitoring or recordkeeping required under Conditions 8 and 9 that was not done.

11.2 Report under Condition 21

- a. the results of Method 9 observations that exceed 20 percent averaged over any six-minute period; and
- b. any monitoring required under Condition 8 that was not performed within three days of the date the monitoring was required.

**12. Particulate Matter (PM) Emission Standards**

12.1 Fuel Burning Equipment Particulate Matter: The Permittee shall not cause or allow PM emitted from any emission unit listed in Table 1 to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.

12.2 PM Monitoring, Recordkeeping, and Reporting for Emission Units Firing Natural Gas: The Permittee shall certify in each operating report required in Condition 22 that EU22 through EU25 only fired natural gas during the reporting period.

12.3 PM Monitoring for Diesel Engines: Except as provided in Condition 12.5, for EU05 through EU14 and EU27 through EU92, within six months of exceeding the criteria of Conditions 12.4a or 12.4b, either

- a. Conduct a PM source test according to the requirements set out in Section 7 (General Source Test and Monitoring Requirements) or

- b. make repairs so that emissions no longer exceed the criteria of Condition 12.4. To show that emissions are below those criteria, observe emissions as described in Condition 8.1 (Method 9 Plan) under load conditions comparable to those when the criteria were exceeded.

12.4 Conduct the PM test or make repairs according to Condition 12.3b if

- a. 18 consecutive minutes of Method 9 observations result in an 18-minute average opacity greater than 20 percent; or
- b. For an emission unit with an exhaust stack diameter 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.

12.5 During each one-hour PM source test run, observe the exhaust for 60 minutes in accordance with Method 9 and calculate the highest average 6-minute opacity measured during each one-hour test run. Submit a copy of these observations with the source test report.

12.6 The automatic PM source test requirement in Conditions 12.3 and 12.4 is waived for an emission unit if a PM source test on that unit has shown compliance with Condition 12.1 under a previous permit.

**13. PM Recordkeeping (Stack Diameters for Diesel Engines):** Within 180 calendar days after the effective date of this permit, the Permittee shall record the exhaust stack diameters of EU05 through EU14 and EU27 through EU92. Report the stack diameters in the next operating report under Condition 22.

**14. PM Reporting for Diesel Engines:** For EU05 through EU14 and EU27 through EU92, the Permittee shall report as follows:

14.1 Report under Condition 21

- a. the results of any PM source test that exceeds the standard in Condition 12.1; or
- b. if one of the criteria of Condition 12.4 was exceeded and the Permittee did not comply with Condition 12.3a or 12.3b, this must be by the day following the day compliance with Condition 12.3 was required;

14.2 shall report observations in excess of the threshold of Condition 12.4b within 30 days of the month in which the observations occur;

14.3 shall include in each operating report required in Condition 22

- a. the dates, EU ID(s), and results when an observed 18-minute average opacity exceeds an applicable threshold in Condition 12.4;
- b. a summary of the results of any PM source testing under Condition 12; and

- c. copies of VE observations results (opacity observations) greater than the thresholds in Condition 12.4, if they were not already submitted.

**15. Sulfur Compounds Emission Standards Requirements:** The Permittee shall not cause or allow sulfur-compound emissions, expressed as SO<sub>2</sub>, from any emission unit listed in Table 1 to exceed 500 ppm averaged over three hours, under 18 AAC 50.055(c).

15.1 The sulfur content of diesel fuel burned in EU05 through EU14 and EU27 through EU29 shall not exceed 0.25 percent by weight. Keep receipts of fuel delivery that specify the grade of fuel and amount burned in each emission unit.

15.2 The sulfur content of diesel fuel burned in EU90 through EU92 shall not exceed 0.05 percent by weight. Keep receipts of fuel delivery that specify the grade and amount of fuel burned in each unit.

15.3 The Permittee shall report as follows:

- a. If SO<sub>2</sub> emissions exceed 500 ppm, report under Condition 21.
- b. Include the fuel grades and sulfur content of diesel fuel burned in each emission unit listed in Table 1 in the report required by Condition 22.

**Section 4. Owner Requested Limit to Avoid Classification Under 18 AAC 50.502(c)(3)**

16. The Permittee shall limit the operation and fuel consumption for the emission units as listed in Table 2.

**Table 2: Owner Requested Limits for Operation and Fuel Consumption of Emission Units**

Emission Unit	Phase of Project	Maximum Operation or Maximum Fuel Use
EU05	During Installation of EU90 – EU92	240 hours per 12 consecutive months
EU06	During Installation of EU90 – EU92	240 hours per 12 consecutive months
EU13	During and after Installation of EU90 – EU92	250 hours per 12 consecutive months
EU14	During and after Installation of EU90 – EU92	250 hours per 12 consecutive months
EU22	During and after Installation of EU90 – EU92	11 MMCF per 12 consecutive months
EU24	During and after Installation of EU90 – EU92	122 MMCF per 12 consecutive months
EU25	During and after Installation of EU90 – EU92	34 MMCF per 12 consecutive months
EU26	During and after Installation of EU90 – EU92	34 MMCF per 12 consecutive months
EU27	During and after Installation of EU90 – EU92	250 hours per 12 consecutive months
EU28	During and after Installation of EU90 – EU92	250 hours per 12 consecutive months
EU29	During and after Installation of EU90 – EU92	250 hours per 12 consecutive months
EU90 – EU92	During Installation of EU90 – EU92	340,000 gallons a year for the three units
EU90 – EU92	After Installation of EU90 – EU92	480,000 gallons a year for the three units

16.1 During the installation of EU90 through EU92, monitor, record, and report operating hours and fuel consumption as follows:

- a. Track the number of hours EU05 and EU06 were used with hours meters dedicated to the emission units. Calculate and record the number of hours every calendar month. Calculate and record the number of hours for the preceding 12 consecutive calendar months.
- b. Include the records described in Condition 16.1a with the operating report described in Condition 22. If the number of hours exceeds the limits specified in Table 2, submit an excess emission report to the Department as described in Condition 21.
- c. Track the number of hours EU13, EU14, and EU27 through EU29, were used with hours meters dedicated to the units. Calculate and record the number of hours every calendar month. Calculate and record the number of hours for the preceding 12 consecutive calendar months.
- d. Include the records described in Condition 16.1c with the operating report described in Condition 22. If the number of hours exceeds the limits specified in Table 2, submit an excess emission report to the Department as described in Condition 21.
- e. Track the number of gallons burned in EU90 through EU92 every calendar month. Calculate and record the number of gallons for the preceding 12 consecutive calendar months.

- f. Include the records described in Condition 16.1e with the operating report described in Condition 22. If the number of gallons burned exceeds the limit specified in Table 2, submit an excess emission report to the Department as described in Condition 21.
  - g. Track the amount of natural gas burned in EU22 through EU26 every calendar month. Calculate and record the amount of gas for the preceding 12 consecutive calendar months.
  - h. Include the records described in Condition 16.1g with the operating report described in Condition 22. If the amount of natural gas burned exceeds the limit specified in Table 2, submit an excess emission report to the Department as described in Condition 21.
- 16.2 After the installation of EU90 through EU92, monitor, record and report fuel consumption as follows.
- a. Track the number of gallons burned in EU90 through EU92 every calendar month. Calculate and record the number of gallons for the preceding 12 consecutive calendar months.
  - b. Include the records described in Condition 16.2a with the operating report described in Condition 22. If the number of gallons exceeds the limit specified in Table 2, submit an excess emission report to the Department as described in Condition 21.
  - c. Track the number of hours EU13, EU14, and EU27 through EU29 were used with hours meters dedicated to the units. Calculate and record the number of hours every calendar month. Calculate and record the number of hours for the preceding 12 consecutive calendar months.
  - d. Include the records described in Condition 16.2c with the operating report described in Condition 22. If the number of hours exceeds the limits specified in Table 2, submit an excess emission report to the Department as described in Condition 21.
  - e. Track the amount of natural gas burned in EU22 through EU26 every calendar month, calculate and record the amount of gas for the preceding 12 consecutive calendar months.
  - f. Include the records described in Condition 16.2e with the operating report described in Condition 22. If the amount of natural gas burned exceeds the limit specified in Table 2, submit an excess emission report to the Department as described in Condition 21.

## ***Section 5. General Certification and Information Requirements***

- 17. Recordkeeping Requirements.** The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:
- 17.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
  - 17.2 records of all monitoring required by this permit, and information about the monitoring including the:
    - a. date, place, and time of sampling or measurements;
    - b. date(s) analyses were performed;
    - c. company or entity that performed the analyses;
    - d. analytical techniques or methods used;
    - e. results of such analyses; and,
    - f. operating conditions that existed at the time of sampling or measurement.
- 18. 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.
- 18.1 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 18.1a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.
- 19. 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.

**20. 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 17.

**21. Excess Emissions and Permit Deviation Reports.**

21.1 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 or is discovered, except as provided in conditions 21.1c(ii) and 21.1c(iii);
  - (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 21.1c(i); and
  - (iii) for failure to monitor, as required in other applicable conditions of this permit.

21.2 The Permittee must report using either the Department's on-line form, or if the Permittee prefers, the form contained in Attachment 3 of this permit. The Permittee must provide all information called for by the form that is used.

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

**22. Operating Reports.** During the life of this permit, the Permittee shall submit to the Department an 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.

22.1 The operating report must include all information required to be in the operating

reports as specified by other conditions of this permit.

- 22.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under condition 22.1, either
- a. The Permittee shall identify
    - (i) the date of the deviation;
    - (ii) the equipment involved;
    - (iii) the permit condition affected;
    - (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 21 the Permittee may cite the date or dates of those reports.
- 22.3 Periodic Affirmation: Each year by March 31, the Permittee shall affirm whether the:
- a. application submitted for the permit and the permit issued still accurately describe the stationary source, and
  - b. the owner or operator has made changes that would trigger the requirement for a new permit.

## ***Section 6. Standard Conditions***

- 23.** The Permittee must comply with each permit term and condition. Noncompliance with a permit term or condition constitutes a violation of AS 46.14, 18 AAC 50, and, except for those terms or conditions designated in the permit as not federally enforceable, the Clean Air Act, and is grounds for
  - 23.1 an enforcement action; or
  - 23.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280.
- 24.** 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.
- 25.** 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.
- 26.** The permit may be modified, reopened, revoked and reissued, or terminated for cause. A request by the Permittee for modification, revocation and reissuance, or termination or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- 27.** The permit does not convey any property rights of any sort, nor any exclusive privilege.

## ***Section 7. General Source Test and Monitoring Requirements***

- 28. Requested Source Tests.** In addition to any source testing explicitly required by this permit, the Permittee shall conduct source testing as requested by the department to determine compliance with applicable permit requirements.
- 29. 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.
- 30. Test Plans.** Except as provided in Condition 33, 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 emission unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete plan within 60 days after receiving a request under Condition 28 and at least 30 days before the scheduled date of any test unless the department agrees in writing to some other time period. Retesting may be done without resubmitting the plan.
- 31. Test Notification.** Except as provided in Condition 33, 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.
- 32. Test Reports.** Except as provided in Condition 33, 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 certify the results in the manner set out in Condition 17. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.
- 33. Test Exemption.** The Permittee is not required to comply with Conditions 30, 31, and 32 (Test Plans, Test Notification and Test Reports) when exhaust is observed for visible emissions using Method 9.

***Section 8. Permit Documentation***

<u>Date</u>	<u>Description</u>
September 29, 2009:	Minor Permit Application for the Replacement of Backup Generators at Fort Richardson

**Attachment 1. Visible Emission Field Data Sheet**

Certified Observer: \_\_\_\_\_

Company &  
 Stationary  
 Source: \_\_\_\_\_

Location: \_\_\_\_\_

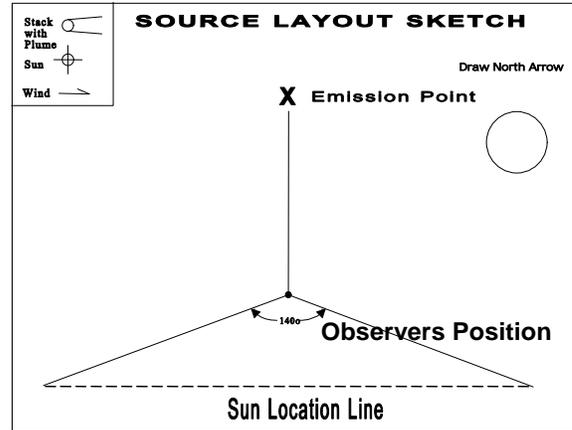
Test No.: \_\_\_\_\_ Date: \_\_\_\_\_

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					



**Attachment 3. ADEC Notification Form<sup>1</sup>**

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 :  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

<sup>1</sup> 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.

Identify the emission unit involved in the event, using the same identification number and name

Unit ID	Emission Unit Name	Permit Condition / Potential Deviation

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](mailto:DEC.AQ.Airreports@alaska.gov) - *if faxed or emailed, the report must be certified within the Operating Report required for the same reporting period per Condition 22.*

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.*

