

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY CONTROL MINOR PERMIT

Permit No. AQ0440MSS01
Rescinds PAEL No. AQ0440PL201

Date: Final – April 30, 2007

The Alaska Department of Environmental Conservation (Department), under the authority of AS 46.14 and 18 AAC 50, issues Air Quality Control Minor Permit No. AQ0440MSS01 to the Permittee listed below.

Permittee: Air Force Research Laboratory
AFRL/VSBXI
29 Randolph Road
Hanscomb AFB, MA 01731-3010
(781)-377-4669

Owner: Same as Permittee

Stationary Source: High Frequency Active Auroral Research Program (HAARP)
Research Site

Project: High Frequency Active Auroral Research Program

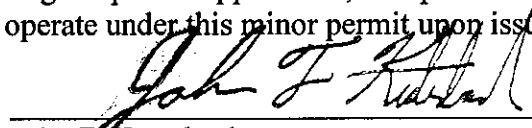
Location of HAARP: UTM Northing 6919151.169; Easting 596592.792

Physical Address: Gakona, Alaska

Source Contact: George Noel
(617) 494-1183

Billing Contact: Mark Fletcher
BAE Advanced Technologies
1250 24th Street NW
Washington, DC 20037
(202) 223-8808

This project is classified under 18 AAC 50.508(5) and 18 AAC 502(c)(3). The permit satisfies the obligation of the Permittee to obtain a minor permit under 18 AAC 50. This Permittee is authorized to operate under the terms and conditions of this permit, and as described in the original permit application, except as otherwise specified in this permit. The Permittee may operate under this minor permit upon issuance.



John E. Kuterbach
Manager, Air Permits Program

Table of Contents

Section 1	Emission Unit Inventory	3
Section 2	State Emission Standards	4
Section 3	Ambient Air Quality Protection	5
Section 4	Permit Terms and Conditions	7
Section 5	Emission Fees	9
Section 6	General Recordkeeping, Reporting, and Certification Requirements.....	10
Section 7	Terms to Make Permit Enforceable	14
Section 8	General Source Test Requirements.....	15
Section 9	Permit Documentation	17
	Visible Emissions Field Data Sheet.....	18
	Visible Emissions Observation Record	19

Section 1 Emission Unit Inventory

- Installation Authorization.** The Permittee is authorized to install the emission units listed in Table 1.

Table 1 – Minor Permit Emission Unit Inventory

Unit No.	Equipment Type	Make	Model	Serial Number	Capacity
1	Generator	General Motors	EMD 20-645-E4	73-E3-1521	4000 hp / 2600 kW
2	Generator	General Motors	EMD 20-645-E3	75-F3-1513	4000 hp / 2600 kW
3	Generator	General Motors	EMD 20-645-E4	73-B1-1069	4000 hp / 2600 kW
4	Generator	General Motors	EMD 20-645-E3	80-F3-1511	4000 hp / 2600 kW
5	Generator	General Motors	EMD 20-645-E3	79-K1-1209	4000 hp / 2600 kW
6	Boiler	Burnham	AV1107WLL	64077658	1281 MBH
7	Boiler	Burnham	AV1107WLL	64077655	1281 MBH
8	Heater	Hastings	CF-60-L02	57169-1	5.8 hp
9	Heater	Hastings	CF-60-L02	57169-2	5.8 hp
10	Fuel Storage Tank	Greer	N/A	N/A	12,000 gallons
11	Fuel Storage Tank	Brown-Minneapolis	N/A	N/A	12,000 gallons
12	Fuel Storage Tank	Brown-Minneapolis	N/A	N/A	12,000 gallons

- Maintenance.** The Permittee shall maintain equipment according to manufacturer's or operator's maintenance procedures.

Section 2 State Emission Standards

3. **Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from the fuel burning emission units listed in **Table 1** to reduce visibility through the exhaust effluent by any of the following:
 - a. more than 20 percent for a total of more than three minutes in any one hour¹;
 - b. more than 20 percent averaged over any six consecutive minutes².
 - 3.1 Perform a visible emissions observation on Emission Units 1 through 9 within 30 days of completing the installation and initial startup of these emission units using Method 9 as described in condition 35.1
 - 3.2 Record and report on the findings of the Method 9 visible emissions observation to the Department in the operating report, under condition 25 of this minor permit.
4. **Particulate Matter (PM).** The Permittee shall not cause or allow PM emitted from the fuel burning emission units listed in **Table 1** to exceed 0.05 grains per cubic foot (gr./dscf) of exhaust gas corrected to standard conditions and averaged over three hours.
5. **Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as Sulfur Dioxide (SO₂), from the fuel burning emission units listed in **Table 1** to exceed 500 parts per million averaged over three hours.
 - a. For all fuel burning emission units listed in **Table 1** shall be operated on fuel containing no greater than 0.15 percent sulfur by weight.

¹ For purposes of this permit, the “more than three minutes in any one hour” criterion in this condition will no longer be effective when the Air Quality Control (18 AAC 50) regulation package effective 05/03/02 is adopted by the U.S. EPA.

² The six-minute average standard is enforceable only by the state until 18 AAC 50.055(a)(1), dated 05/03/02, is approved by EPA and adopted into the SIP, at which time this standard becomes federally enforceable.

Section 3 Ambient Air Quality Protection

6. **SO₂ Ambient Air Quality Protection.** Protect the SO₂ ambient air quality standard as follows:
 - 6.1 Do not operate distillate fuel-burning equipment with a distillate fuel that contains a sulfur content greater than 0.15 percent by weight.
 - 6.2 The Permittee will monitor, record and report on the sulfur content of all fuel deliveries.
 - a. For distillate fuel, obtain a statement or receipt from the fuel supplier certifying the maximum sulfur content of the fuel for each shipment of fuel delivered to the stationary source. If a certificate is not available from the supplier, analyze a representative sample of the fuel to determine the sulfur content using ASTM method D-129, D 4294, or an alternative method approved by the Department.
 - b. Include in the operating report required under condition 25, a list of the fuel sulfur content for each shipment of distillate fuel received at the stationary source during the reporting period.
7. **Oxides of Nitrogen (NO_x) Ambient Air Quality Protection.** Protect the NO_x ambient air quality standard by complying with condition 12.
8. Maintain the existing stack heights of 10.22 meters, for Emission Units 1 through 5.
9. **Public Access Control Plan (Access Plan).** Establish and maintain the ambient air boundaries as follows:
 - 9.1 Comply with the provisions contained in the March 9, 2007 Public Access Control Plan (contained in the Technical Analysis Report for this permit), or a subsequent written version approved by the Department that contains at least the following elements:
 - a. A topographic map (or maps) that clearly shows the ambient air boundaries, road-ways and permit-related facilities/areas;
 - b. Ambient air boundaries that are consistent with the applicable land owner's authorization to preclude public access from the area within the boundaries;
 - c. Defined methods of establishing and maintaining the boundary, such as physical barriers, surveillance and the posting of strategically located warning signs (provide size, wording, and inspection/repair schedule);
 - d. The date of the Access Plan; and
 - e. The procedure for approaching members of the public who have crossed the ambient air boundary.

- 9.2 Post and maintain all warning signs described in the approved Access Plan as follows:
 - a. use a font, font size and contrast coloring that makes all lettering easy to read;
 - b. keep all signs free of nearby visible obstructions.
- 9.3 Maintain a hard-copy of the approved Access Plan for public review at the stationary source or electronically on the world-wide-web.
- 9.4 Keep a daily surveillance log sufficient to show compliance status with the surveillance plan. Keep records as set out by condition 23.
- 10. Submit all proposed revisions to the ambient boundary and/or Access Plan to the Department's Juneau and Fairbanks Offices.

Section 4 Permit Terms and Conditions

PSD Avoidance Conditions

ORL Conditions

11. The combined emissions of NO_x, for Emission Units 1 through 9, shall not exceed 240 tons per rolling 12-month period.
12. Emission Units 1 through 5 shall not exceed a combined 9,250 hours of operation, in a rolling 12-month period.

ORL Monitoring, Recording and Reporting Conditions

13. The Permittee shall monitor, record and report the hours of operation of Emission Units 1 through 5, for monthly and rolling 12-month totals.
 - 13.1 Include the combined monthly and rolling 12-month hours of operation in the operating report required by Condition 25 of this minor permit.
 - 13.2 Report as excess emission if the rolling 12-month hours of operation for Emission Units 1 through 5 exceed a combined 9,250 hours, in the excess emissions and permit deviation report required by Condition 24 of this minor permit.
14. The Permittee shall calculate, record and report monthly and rolling 12-month NO_x emissions for all emission units. This shall be accomplished using Condition 14.1 to calculate the monthly NO_x emissions for Emission Units 1 through 5, Condition 14.2 to account for the NO_x emissions from Emission Units 6 through 9 and Condition 14.3 for calculating the total monthly and rolling 12-month NO_x emissions.

14.1 Calculate monthly NO_x emissions for Emission Units 1 through 5 as follows:

Equation 1
$$NO_x = EF \times H \left(\frac{1 \text{ ton}}{2000 \text{ lb}} \right)$$

Where: NO_x = NO_x emissions in tons per month;
 H = Combined monthly operating hours of Units 1 through 5; and
 EF = Latest Department approved, source test, emission factor in pounds per hour¹

14.2 Add 0.27 tons of NO_x per month to the amount calculated in condition 14.1 to account for Units 6 through 9.

¹ The emission factor approved by the Department should be for the worst-case emissions, which will provide additional protection from exceeding the PSD limit.

- 14.3 Calculate the total monthly and rolling 12-month NO_x emissions for Emission Units 1 through 9.
- 14.4 Include the combined monthly and rolling 12-month NO_x emissions, calculated in Condition 14.3, in the operating report required by Condition 25 of this minor permit.
- 14.5 Report as excess emission, if the rolling 12-month NO_x emission calculated in Condition 14.3 exceeds 240 tons, in the excess emissions and permit deviation report required by Condition 24 of this minor permit.

Fuel Consumption Verification

15. The Permittee shall accurately monitor, record and report monthly and rolling 12-month fuel consumption, for Emission Units 1 through 5 individually.
 - 15.1 Using a fuel meter with accuracy of plus or minus 5 percent or better, monitor and record the monthly fuel consumption for Emission Units 1 through 5.
 - 15.2 Every month, calculate the previous rolling 12-month average fuel consumption rate for Units 1 through 5 in gallons per hour (using the rolling 12-month hours of operation from condition 13).
 - 15.3 Include the monthly and rolling 12-month fuel consumption for Emission Units 1 through 5 in the operating report required by Condition 25 of this minor permit.
16. The Permittee shall not allow the fuel consumption rate for Units 1 through 5 to exceed 187 gallons per hour, on an annual average basis each.
 - 16.1 Include the rolling 12-month average hourly fuel consumption for Emission Units 1 through 5 in the operating report required by Condition 25 of this minor permit.
 - 16.2 Report as excess emission if any one of Emission Units 1 through 5's rolling 12-month average hourly fuel consumption exceeds 187 gallons, in the excess emissions and permit deviation in the report required by Condition 24 of this minor permit.

Operating Permit Application

17. The stationary source NO_x emissions are greater than 100 tons, which drives a requirement for the AFRL to obtain a Title V Operating Permit for the HAARP Research Site.
 - 17.1 The Permittee shall submit an application for a Title V operating permit within 365 days of issuance of this permit.
 - 17.2 If the Permittee has submitted an application prior to issuance of this permit, that will be deemed in compliance with this condition.

Section 5 Emission Fees

18. Assessable Emissions

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

- a. the stationary source's assessable potential to emit of:
 - (i) 303 tpy; or
- b. 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:
 - (i) an enforceable test method described in 18 AAC 50.220;
 - (ii) material balance calculations;
 - (iii) emission factors from EPA's publication AP-42, Vol. I, adopted by reference in 18 AAC 50.035; or
 - (iv) other methods and calculations approved by the department.

19. Assessable Emission Estimates.

19.1 Emission fees will be assessed as follows:

- a. 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
- b. if no estimate is received 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 18.1a(i).

Section 6 General Recordkeeping, Reporting, and Certification Requirements

20. **Certification.** The Permittee shall certify all reports, or other documents 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 emissions 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.
21. **Submittals.** Unless otherwise directed by the Department or this permit, the Permittee shall send two copies 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 20.
22. **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, 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.
23. **Recordkeeping Requirements.** The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:
 - 23.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
 - 23.2 records of all monitoring required by this permit, and information about the monitoring including (if applicable):
 - a. calibration and maintenance records, original strip chart or computer-based recordings for continuous monitoring instrumentation;
 - b. sampling dates and times of sampling or measurements;
 - c. the operating conditions that existed at the time of sampling or measurement;
 - d. the date analyses were performed;
 - e. the location where samples were taken;
 - f. the company or entity that performed the sampling and analyses;
 - g. the analytical techniques or methods used in the analyses; and
 - h. the results of the analyses

24. Excess Emissions and Permit Deviation Reports.

24.1 Except as provided in condition 27, 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 nonroutine repair that caused emissions in excess of a technology based emissions standard;
- c. report all other excess emissions and permit deviations
 - (i) within 30 days of the end of the month in which emissions or deviation occurs or is discovered, except as provided in condition 24.1c(ii) and 24.1c(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 24.1c(i); and
 - (iii) for failure to monitor, as required in other applicable conditions of this permit.

24.2 The Permittee must report using either the Department's on-line form, or if the Permittee prefers, the form contained in Attachment 2. The Permittee must provide all information called for by the form that is used.

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

25. Operating Reports. During the life of this permit, the Permittee shall submit to the Department an original and two copies 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..

25.1 The operating report must include all information required to be in operating reports by other conditions of this permit

25.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under 25.1, 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 preventative measures taken and the date of such actions; or
 - b. when excess emissions or permit deviations have already been reported under condition 24 the Permittee may cite the date or dates of those reports.
- 26. 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
 - 26.1 enter upon the premises where an emissions unit subject to this permit is located or where records required by the permit are kept;
 - 26.2 have access to and copy any records required by this permit
 - 26.3 inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
 - 26.4 sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.
- 27. **Air Pollution Prohibited.** No person may permit any emissions 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.
 - 27.1 If emissions present a potential threat to health or safety, the Permittee shall report any such emissions according to condition 24.
 - 27.2 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 27.
 - 27.3 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 investigation because of complaint or other reason, the Permittee believes that emissions from the stationary source have caused or are causing a violation of condition 27; or
 - b. the Department notifies the Permittee that it has found a violation of condition 27.
 - 27.4 The Permittee shall keep records of
 - a. the date and 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 27; and
 - d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

27.5 With each operating report under condition 25, 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.
- e. 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.

Section 7 Terms to Make Permit Enforceable

28. 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
 - 28.1 an enforcement action; or
 - 28.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280.
29. 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.
30. 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.
31. 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.
32. The permit does not convey any property rights of any sort, nor any exclusive privilege.

Section 8 General Source Test Requirements

33. **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.
34. **Operating Conditions.** Unless otherwise specified by an applicable requirement or test method, the Permittee shall conduct source testing
- 34.1 at a point or points that characterize the actual discharge into the ambient air; and
 - 34.2 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.
35. **Reference Test Methods.** The Permittee shall use the following references for test methods when conducting source testing for compliance with this permit:
- 35.1 Source testing for the reduction in visibility through the exhaust effluent must be conducted in accordance with the procedures set out in 40 C.F.R. 60, Appendix A, Reference Method 9. The Permittee may use the form in Attachment 3 of this permit to record data.
 - 35.2 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.
 - 35.3 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.
 - 35.4 Source testing for emissions of any contaminant may be determined using an alternative method approved by the Department in accordance with 40 C.F.R. 63 Appendix A, Method 301.
36. **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.
37. **Test Plans.** Before conducting any source tests, the Permittee shall submit a plan to the Department. The plan must include the methods and procedures to be used for sampling, testing, and quality assurance, and must specify how the emissions unit will operate during the test and how the Permittee will document that operation. The Permittee shall submit a complete test plan 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.
38. **Test Notification.** At least 10 days before conducting a source test, the Permittee shall give the Department written notice of the date and time the source test will begin.

39. **Test Reports.** 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 as set out in condition 20. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

Section 9 Permit Documentation

December 26, 2006 Application Received for Air Quality Control Minor Permit for the
HAARP Research Site.

Attachment 1 - Visible Emissions Form

Visible Emissions Field Data Sheet

Certified Observer: _____

Company &
Stationary Source: _____

Location: _____

Test No.: _____

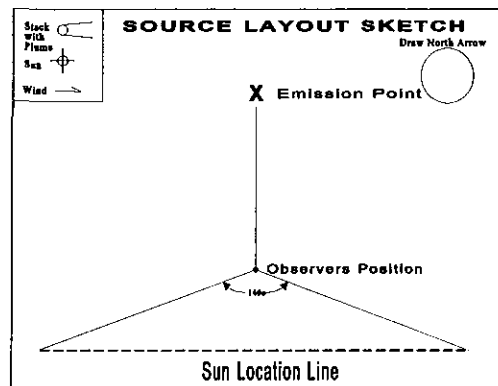
Date: _____

Source: _____

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					

Page of

Test Number _____ **Clock time** _____

Additional information:

Certified By and Date

Duration Required by Permit (minutes) _____

Highest Six – Minute Average Opacity (%)

In compliance with six-minute opacity limit? (Yes or No) _____

Set Number	Time Start—End	Opacity	
		Sum	Average

Attachment 2 - ADEC Notification Form¹

Excess Emissions and Permit Deviation Reporting
State of Alaska Department of Environmental Conservation
Division of Air Quality

Stationary Source Name

Air Quality Permit Number

Company Name

When did you discover the Excess Emissions/Permit Deviation?

Date: / / Time: :

When did the event/deviation?

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 conditions complete Section 2 and certify

☐ Deviation 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 Adjustments

☐ 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) Emission unit(s) Involved:

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

EU ID	Emission Unit Name	Permit Condition Exceeded/Limit/Potential
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¹ Revised as of December 6, 2004

		<u>Exceedance</u>

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

- | | | |
|--|--|---|
| <input type="checkbox"/> Opacity % | <input type="checkbox"/> Venting (gas/scf) | <input type="checkbox"/> Control Equipment Down |
| <input type="checkbox"/> Fugitive Emissions | <input type="checkbox"/> Emission Limit Exceeded | <input type="checkbox"/> Record Keeping Failure |
| <input type="checkbox"/> Marine Vessel Opacity | <input type="checkbox"/> Failure to monitor/report | <input type="checkbox"/> Flaring |
| <input type="checkbox"/> Other: | | |

(f) Unavoidable Emissions:

- Do you intend to assert that these excess emissions were unavoidable? ☐ YES ☐ NO
- Do you intend to assert the affirmative defense of 18 AAC 50.235? ☐ YES ☐ NO

Certify Report (go to end of form)

Section 2. Permit Deviations

(a) Permit Deviation Type (check one only) (check boxes correspond with sections in permit)

- ☐ Emission Unit Specific
- ☐ General Source Test/Monitoring Requirements
- ☐ Recordkeeping/Reporting/Compliance Certification
- ☐ Standard Conditions Not Included in Permit
- ☐ Generally Applicable Requirements
- ☐ Reporting/Monitoring for Diesel Engines
- ☐ Insignificant Emission Unit
- ☐ Stationary Source-Wide
- ☐ Other Section: (title of section and section # of your permit)

(b) Emission unit(s) Involved:

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

<u>EU ID</u>	<u>Emission Unit Name</u>	<u>Permit Condition /Potential Deviation</u>

(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 _____

To Submit this report:

Fax this form to: 907-451-2187

Or

Email to: airreports@dec.state.ak.us

if emailed, the report must be certified.

Or

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

Or

Phone notifications: 907-451-5173.

Phone notifications require written follow up report within the deadline listed in condition 24.

Or

Online submission of this report can be made at the following website (*Website is not yet available*). *If submitted online, the report must be certified.*

Signature: