

# DEPARTMENT OF ENVIRONMENTAL CONSERVATION

## AIR QUALITY CONTROL MINOR PERMIT

**Permit No. AQ0318MSS05, Revision 1**  
Rescinds Permit No. AQ0318MSS05

Preliminary – March 2, 2015

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. AQ0318MSS05 Revision 1 to the Permittee listed below.

**Operator and Permittee:** **United States Air Force**  
13 SWS/CC, P.O. Box 40013  
Clear Air Force Station, AK 99704-0013

**Owner:** United States Air Force

**Stationary Source:** Clear Air Force Station

**Location:** Latitude 64° 17' 31" North, Longitude 149° 11' 6" West

**Physical Address:** Mile Post 284 on Park Highway, Clear, AK 99704

**Permit Contact:** John Moylan, (907) 585-6341  
john.moylan.5.ctr@us.af.mil

**Project:** Central Heat/Power Plant Decommissioning

This permit establishes conditions under 18 AAC 50.508(5) for establishing an ORL. This 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 9 except as specified in this permit.

The Permittee may operate under the terms and conditions of this minor permit upon issuance.

---

John F. Kuterbach  
Manager, Air Permits Program

## Table of Contents

Section 1. Emission Unit Inventory .....	3
Section 2. Emission Fees.....	5
Section 3. Owner Requested Limit to Avoid Minor Permitting under 18 AAC 50.502(c)(3).....	6
Section 4. Owner Requested Limit to Avoid PSD Permitting under 18 AAC 50.306.....	7
Section 5. State Emissions Standards.....	8
Section 6. General Recordkeeping Requirements .....	9
Section 7. Standard Permit Conditions.....	13
Section 8. General Source Test and Monitoring Requirements .....	14
Section 9. Permit Documentation.....	16
Section 10. Visible Emissions Forms.....	17
Section 11. ADEC Notification Form .....	19

**Section 1. Emission Unit Inventory**

- 1. Emission Units (EU) Authorization.** EUs listed in **Table 1** have specific monitoring, record keeping, or reporting conditions in this permit. Except as noted elsewhere in the permit the information in **Table 1** is for information purposes only. The specific EU descriptions do not restrict the Permittee from replacing an EU identified in **Table 1**. The Permittee shall comply with all applicable provisions of AS 46.14 and 18 AAC 50 when installing a replacement EU, including any applicable minor or construction permit requirements.

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

EU ID	Description	Make/Model	Rating	Fuel Type	Install Date
1 <sup>1</sup>	Coal-Fired Boiler #1	Erie City Iron Works #95834	117 MMBtu/hr	Coal	1961
2 <sup>1</sup>	Coal-Fired Boiler #2	Erie City Iron Works #95833	117 MMBtu/hr	Coal	1961
3 <sup>1</sup>	Coal-Fired Boiler #3	Erie City Iron Works #95831	117 MMBtu/hr	Coal	1961
4 <sup>1</sup>	Ash Collection System and Storage	N/A	N/A	N/A	1961 (Updated in 2000 and 2007/2008)
5 <sup>1</sup>	Diesel Generator	General Motor #567C/60A-2	1,000 kW	Diesel	1961
10 <sup>1</sup>	Diesel Generator	Perkins Type KE31407U, 919640D	12.5 kW	Diesel	2003
40 <sup>1</sup>	Coal Crusher Facility	N/A	N/A	N/A	2000
43	Diesel Emergency Generator	TBD	1.25 MW	ULSD	TBD
44	Oil-Fired Boiler #1	TBD	13.39 MMBtu/hr	ULSD	TBD
45	Oil-Fired Boiler #2	TBD	13.39 MMBtu/hr	ULSD	TBD
46	Oil-Fired Boiler #3	TBD	13.39 MMBtu/hr	ULSD	TBD
47	Portable Boiler #1	York Shipley #A53-301W	10 MMBtu/hr	ULSD	2014
48	Portable Boiler #2	York Shipley #A53-301W	10 MMBtu/hr	ULSD	2014
49	Portable Emergency Engine	Caterpillar Model D-3516	1500 kW	ULSD	2014

Abbreviations:

ULSD means Ultra-Low Sulfur Diesel

TBD means To Be Determined

Table Notes:

<sup>1</sup>EU IDs 1 through 5, 10 and 40 were previously installed and are included in this permit for identification purposes only.

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

**2. Assessable Emissions.** The Permittee shall pay to the Department an annual emission fee based on the 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:

- 2.1 the stationary source's assessable potential to emit of **2,160 tpy**; or
- 2.2 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.

**3. Assessable Emission Estimates.** Emission fees will be assessed as follows:

- 3.1 no later than March 31 of each year, the Permittee may submit an estimate of the source's assessable emissions to the Department, 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
- 3.2 if no estimate is received on or before March 31 of each year, emission fees for the Department's next fiscal year (July 1- June 30) will be based on the potential to emit set forth in Condition 2.1.

***Section 3. Owner Requested Limit to Avoid Minor Permitting under  
18 AAC 50.502(c)(3)***

4. The Permittee shall decommission<sup>1</sup> the Central Heat/Power Plant (EU IDs 1 through 5, 10 and 40) within 90 days of the commissioning<sup>2</sup> of any of EU IDs 43 through 46. Report in the first operating report required in Condition 15, subsequent to commissioning EU IDs 43 through 46 and decommissioning EU IDs 1 through 5, 10, and 40:
  - 4.1 the dates that each of EU IDs 43 through 46 are commissioned;
  - 4.2 the dates that each of EU IDs 1 through 5, 10 and 40 are decommissioned.

---

<sup>1</sup> Decommission means lockout and tagout of each EU until it is physically removed. Lockout and tagout means all sources of electrical energy have been disconnected or otherwise prevented from energizing the equipment or circuits being worked on.

<sup>2</sup> Commissioning means the point when a new unit begins operation for start-up and testing.

---

**Section 4. Owner Requested Limit to Avoid PSD Permitting under  
18 AAC 50.306**

**Sulfur Dioxide (SO<sub>2</sub>) Limit**

5. The Permittee shall limit the combined SO<sub>2</sub> emissions for EU IDs 44 through 49 to no more than 0.22 tpy by using ultra-low sulfur diesel (ULSD). Monitor, record and report as follows:
- 5.1 For each shipment of fuel delivered to the stationary source, obtain and record the wt%S, as determined from:
- ASTM approved testing methods such as D129-00, D1552-98, D2622-98, D4294-98, and D4045-99;
  - certified test results from supplier or refinery; or
  - fuel grade receipts.
- 5.2 Report:
- in the Operating Report required by Condition 15, the fuel sulfur or fuel grade of all shipments received at the stationary source during the reporting period.
  - under the Excess Emissions and Permit Deviation Reports requirements of Condition 14, the fuel sulfur content of any shipment recorded under Condition 5.1 that exceeds 0.0015 wt%S.

**Nitrogen Oxide (NO<sub>x</sub>) Limit**

6. The Permittee shall limit the combined NO<sub>x</sub> emissions for EU IDs 47 and 48 to no more than 0.54 tpy by limiting the combined fuel consumption to no more than 53,700 gallons per 12-month rolling period.
- 6.1 Install, maintain and operate a fuel meter for monitoring the amount of fuel consumed in EU IDs 47 and 48, and monitor and record the total monthly fuel consumption in gallons for EUs 47 and 48;
- 6.2 By the 15<sup>th</sup> of each calendar month, calculate the 12-month rolling total fuel consumption for EU IDs 47 and 48 for the preceding 12 months.
- 6.3 Report:
- in the Operating Report required by Condition 15, the monthly and rolling 12-month combined fuel usage for EU IDs 47 and 48.
  - under the Excess Emissions and Permit Deviation Reports requirements of Condition 14, if any rolling 12-month combined fuel usage exceeds 53,700 gallons per rolling 12-month period.

## ***Section 5. State Emissions Standards***

- 7. Industrial Process and Fuel-Burning Equipment Visible Emissions.** The Permittee shall not cause or allow visible emissions, excluding condensed water vapor, emitted from EU IDs 43 through 49 listed in Table 1 to reduce visibility through the exhaust effluent by more than 20 percent averaged over any six consecutive minutes.
  - 7.1 Verify the initial compliance of EU IDs 43 through 49 by either:
    - a. obtaining a certified manufacturer guarantee, prior to the commissioning of the unit, that the emission unit will comply with the visible emission standard; or
    - b. conducting a Method 9 visible emission observation within 90 days of the commissioning of the unit.
  - 7.2 For each installed emission unit listed in Condition 7.1, attach a copy of the guarantee obtained under Condition 7.1a, or a copy of the observation records developed under Condition 7.1b, as applicable, to the operating report submitted under Condition 15 for the period that covers the 90<sup>th</sup> day after commissioning of the unit.
- 8. Industrial Process and Fuel-Burning Equipment Particulate Matter.** The Permittee shall not cause or allow particulate matter emitted from EU IDs 43 through 49 listed in Table 1 to exceed 0.05 grains per cubic foot of exhaust gas corrected to standard conditions and averaged over three hours.
- 9. Sulfur Compound Emissions.** The Permittee shall not cause or allow sulfur compound emissions, expressed as SO<sub>2</sub>, from EU IDs 43 through 49 listed in Table 1 to exceed 500 ppm averaged over three hours.

## **Section 6. General Recordkeeping Requirements**

- 10. Recordkeeping Requirements.** The Permittee shall keep all records required by this permit for at least five years after the date of collection, including:
- 10.1 copies of all reports and certifications submitted pursuant to this section of the permit; and
  - 10.2 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.
- 11. 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.
- 11.1 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 11.1a, that the person accepts or agrees to be bound by an electronic record executed or adopted with that signature.
- 12. 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.

- 
- 13. 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 11.
- 14. Excess Emissions and Permit Deviation Reports.**
- 14.1 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 nonroutine repair that causes emissions in excess of a technology based emission standard;
  - c. report all other excess emissions and permit deviations
    - (i) within 30 days of the end of the month in which the emissions or deviation occurs or is discovered, except as provided in Conditions 14.1c(ii) and 14.1c(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 14.1c(i); and
    - (iii) for failure to monitor, as required in other applicable conditions of this permit.
- 14.2 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 11 of this permit. The Permittee must provide all information called for by the form that is used.
- 14.3 If requested by the Department, the Permittee shall provide a more detailed written report as requested to follow up an excess emissions report.

**15. 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.

15.1 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.

15.2 If excess emissions or permit deviations that occurred during the reporting period are not reported under Condition 15.1, 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 14, the Permittee may cite the date or dates of those reports.

**16. 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.

16.1 Monitoring, Recordkeeping, and Reporting for Air Pollution Prohibited

- a. If emissions present a potential threat to human health or safety, the Permittee shall report any such emissions according to Condition 14.
- 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 16.

16.2 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 16; or

- b. the Department notifies the Permittee that it has found a violation of Condition 16.

16.3 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 16; and
- d. any corrective actions taken or planned for complaints attributable to emissions from the stationary source.

16.4 With each stationary source operating report under Condition 15 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.

16.5 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.

---

## ***Section 7. Standard Permit Conditions***

- 17.** 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
  - 17.1 an enforcement action;
  - 17.2 permit termination, revocation and reissuance, or modification in accordance with AS 46.14.280.
- 18.** 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.
- 19.** 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.
- 20.** 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.
- 21.** The permit does not convey any property rights of any sort, nor any exclusive privilege.
- 22.** 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
  - 22.1 enter upon the premises where a source subject to the permit is located or where records required by the permit are kept;
  - 22.2 have access to and copy any records required by the permit;
  - 22.3 inspect any stationary source, equipment, practices, or operations regulated by or referenced in the permit; and
  - 22.4 sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

---

## **Section 8. General Source Test and Monitoring Requirements**

- 20. 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.
- 21. Operating Conditions.** Unless otherwise specified by an applicable requirement or test method, the Permittee shall conduct source testing
- 21.1 at a point or points that characterize the actual discharge into the ambient air; and
  - 21.2 at the maximum rated burning or operating capacity of the emission unit or another rate determined by the Department to characterize the actual discharge into the ambient air.
- 22. Reference Test Methods.** The Permittee shall use the following as reference test methods when conducting source testing for compliance with this permit:
- 22.1 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.
  - 22.2 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 10 to record data.
  - 22.3 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.
  - 22.4 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.
  - 22.5 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.
- 23. 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 emission unit type, corrected to standard conditions (dry gas at 68° F and an absolute pressure of 760 millimeters of mercury).
- 24. 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.

- 25. Test Plans.** Except as provided in Condition 28, 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 20 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.
- 26. Test Notification.** Except as provided in Condition 28, 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.
- 27. Test Reports.** Except as provided in Condition 28, 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 11. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.
- 28. Test Exemption.** The Permittee is not required to comply with Conditions 25, 26, and 27 (Test Plans, Test Notification and Test Reports) when exhaust is observed for visible emissions using Method 9.

***Section 9. Permit Documentation***

May 16, 2014            Minor permit application, received May 16, 2014.  
January 22, 2015       Revised minor permit application, received January 23, 2015.

## Section 10. Visible Emissions Forms

### VISIBLE EMISSION OBSERVATION FORM

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

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



**Section 11. ADEC Notification Form<sup>3</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:

(b) Cause of Event (Check one)  Intermittent  Continuous

- 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>3</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 as in the permit. List the corresponding permit conditions and the deviation.

(c) Description of Potential Deviation:

Unit ID	Emission Unit Name	Permit Condition / 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 15.*

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.*