DEPARTMENT OF ENVIRONMENTAL CONSERVATION
AIR QUALITY CONTROL MINOR PERMIT

Minor Permit: **AQ0236MSS03 Revision 2** **Preliminary – September 20, 2024**
Rescinds Permit: AQ0236MSS03 Revision 1

The Alaska Department of Environmental Conservation (Department), under the authority of AS 46.14 and 18 AAC 50, issues Air Quality Control Minor Permit AQ0236MSS03 Revision 2 to the Permittee listed below.

Permittee:	**U.S. Army Garrison** ATTN: IMFW-ZA 1060 Gaffney Road #6000 Fort Wainwright, AK 99703-6000
Stationary Source:	**USAG Alaska Fort Wainwright**
Location:	NAD 1927 Latitude: 64.8345678 / Longitude: -147.61913
Project:	$PM_{2.5}$ Serious Nonattainment State Implementation Plan (SIP)
Permit Contact:	**Robert Larimore** Chief, Environmental Division (907) 361-4213 robert.k.larimore.civ@army.mil

The Permittee submitted an application for Minor Permit AQ0236MSS03 under AS 46.14.130(c)(2) because the Department found that public health or air quality effects provide a reasonable basis to regulate the stationary source. This finding is contained in the State Air Quality Control Plan adopted on November 19, 2019.

Minor Permit AQ0236MSS03 Revision 2 is issued to address comments from US EPA concerning State Implementation Plan requirements for $PM_{2.5}$ limits and associated monitoring, recordkeeping, and reporting for EU IDs 8 – 10, 11 – 13, 26 – 40, 50 – 54, and 55 – 69 of U.S. Army Garrison's Fort Wainwright.

This permit satisfies the obligation of the Permittee to obtain a minor permit under 18 AAC 50. As required by AS 46.14.120(c), the Permittee shall comply with the terms and conditions of this permit.

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James R. Plosay, Manager
Air Permits Program

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Abbreviations and Acronyms

AAAQS .....Alaska Ambient Air Quality Standards
AAC.....Alaska Administrative Code
ADEC .....Alaska Department of Environmental Conservation
AOS .....Air Online Services
AS .....Alaska Statutes
ASTM .....American Society for Testing and Materials
BACM .....Best Available Control Measures
BACT .....best available control technology
bhp .....brake horsepower
CDX.....Central Data Exchange
CEDRI .....Compliance and Emissions Data Reporting Interface
C.F.R. .....Code of Federal Regulations
CAA.....Clean Air Act
CO .....carbon monoxide
Department .....Alaska Department of Environmental Conservation
dscf .....dry standard cubic foot
EPA .....US Environmental Protection Agency
EU.....emissions unit
FWA .....Alaska Fort Wainright
gr/dscf.....grain per dry standard cubic foot (1 pound = 7000 grains)
gph .....gallons per hour
HAPs .....hazardous air pollutants [as defined in AS 46.14.990]
hp .....horsepower
ID.....emissions unit identification number
kPa .....kiloPascals
LAER.....lowest achievable emission rate
MACT .....maximum achievable control technology [as defined in 40 C.F.R. 63]
MMBtu/hr.....million British thermal units per hour
MMscf .....million standard cubic feet
MR&R .....monitoring, recordkeeping, and reporting
NAA .....Nonattainment area
NESHAPs.....National Emission Standards for Hazardous Air Pollutants [as contained in 40 C.F.R. 61 and 63]
NO_x.....nitrogen oxides
NRE.....nonroad engine
NSPS .....New Source Performance Standards [as contained in 40 C.F.R. 60]
O & M .....operation and maintenance
O_2.....oxygen
PAL .....plantwide applicability limitation
PM_{10} .....particulate matter less than or equal to a nominal 10 microns in diameter
$PM_{2.5}$.....particulate matter less than or equal to a nominal 2.5 microns in diameter
ppm .....parts per million
ppmv, ppmvd.....parts per million by volume on a dry basis
ppmw.....parts per million by weight
psia .....pounds per square inch (absolute)
PSD .....prevention of significant deterioration
PTE.....potential to emit
SIC.....Standard Industrial Classification
SIP .....State Implementation Plan
SPC.....Standard Permit Condition or Standard Operating Permit Condition
SO_2 .....sulfur dioxide
The Act.....Clean Air Act
TPH .....tons per hour
TPY .....tons per year
ULSD .....Ultra Low Sulfur Diesel
USAG.....United States Army Garrison
VOC .....volatile organic compound [as defined in 40 C.F.R. 51.100(s)]
VOL.....volatile organic liquid [as defined in 40 C.F.R. 60.111b, Subpart Kb]
vol% .....volume percent
wt% .....weight percent
$wt\%S_{fuel}$ .....weight percent of sulfur in fuel

Section 1 Emissions Unit Inventory

Emissions Unit (EU) Authorization. The Permittee is authorized to install and operate the EUs listed in Table 1 in accordance with the minor permit application and the terms and conditions of this permit. The information in Table 1 is for identification purposes only, unless otherwise noted in the permit. The specific EU descriptions do not restrict the Permittee from replacing an EU identified in Table 1.

Table 1 – EU Inventory

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Size	Installation or Construction Date
8	Backup Diesel-Fired Boiler 1	Bassett Hospital (Bldg 4076)	19 MMBtu/hr	Est. 2003-2004
9	Backup Diesel-Fired Boiler 2	Bassett Hospital (Bldg 4076)	19 MMBtu/hr	Est. 2003-2004
10	Backup Diesel-Fired Boiler 3	Bassett Hospital (Bldg 4076)	19 MMBtu/hr	Est. 2003-2004
11	Backup Diesel-Electric Generator 1	Bassett Hospital (Bldg 4076)	900 kW	Est. 2003-2004
12	Backup Diesel-Electric Generator 2	Bassett Hospital (Bldg 4076)	900 kW	Est. 2003-2004
13	Backup Diesel-Electric Generator 3	Bassett Hospital (Bldg 4076)	900 kW	Est. 2003-2004
22	VOC Extraction and Combustion	Remediation	NA	1993
23	Fort Wainwright Landfill	Landfill	1.97 million cubic meters	1962
24	Aerospace Activities	Painting and Degreasing	NA	1950s
26	Emergency Generator Building 2132	Cummins QSB7-G5 NR3	324 hp	2012
27	Emergency Generator Building 1580	John Deere 402HF285B	67 hp	2009
28	Emergency Generator Building 3406	Caterpillar C9 Genset	398 hp	2007
29	Emergency Generator Building 3567	SDMO TM30UCM	47 hp	2005
30	Fire Pump Building 2089	John Deere 6081AF001	275 hp	2007
31	Fire Pump #1 Building 1572	Clarke DDFP-04AT	235 hp	1994
32	Fire Pump #2 Building 1572	Clarke DDFP-04AT	235 hp	1994
33	Fire Pump #3 Building 1572	Clarke DDFP-04AT	235 hp	1994

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Size	Installation or Construction Date
34	Fire Pump #4 Building 1572	Clarke DDFP-04AT	235 hp	1994
35	Fire Pump #1 Building 2080	Cummins N-885-F	240 hp	1977
36	Fire Pump #2 Building 2080	Cummins N-885-F	240 hp	1977
37	Fire Pump Building 3498	Clarke, JU4H-UF40	105 hp	2005
38	Fire Pump #1 Building 5009	Clarke, PDFP-06YT	120 hp	1996
39	Fire Pump #2 Building 5009	Clarke, PDFP-06YT	120 hp	1996
40	Diesel-Fired Boiler Building 5007	Weil-McLain BL-988-SW	2.6 MMBtu/hr	1985
50	Emergency Generator Engine	Building 1060	762 hp	2010
51	Emergency Generator Engine	Building 1060	762 hp	2010
52	Emergency Generator Engine	Building 1193	82 hp	2002
53	Emergency Generator Engine	Building 1555	587 hp	2008
54	Emergency Generator Engine	Building 2117	1,059 hp	2005
55	Emergency Generator Engine	Building 2117	212 hp	2005
56	Emergency Generator Engine	Building 2088	176 hp	2007
57	Emergency Generator Engine	Building 2296	212 hp	2005
58	Emergency Generator Engine	Building 3004	71 hp	2007
59	Emergency Generator Engine	Building 3028	35 hp	1976
60a[1a]	Emergency Generator Engine	Building 3407	230 hp	2023
61	Emergency Generator Engine	Building 3703	50 hp	1993
62	Emergency Generator Engine	Building 5108	18 hp	2011

EU ID	Emissions Unit Name	Emissions Unit Description	Rating/Size	Installation or Construction Date
63	Emergency Generator Engine	Building 1620	68 hp	2003
64	Emergency Generator Engine	Building 1054	274 hp	2010
65	Emergency Generator Engine	Building 4390	274 hp	2010
66	Emergency Generator Engine	Building 3007	235 hp	2014
67	Emergency Generator Engine	Building 2121	67 hp	2016
68[1b]	Emergency Generator Engine	Building 3025	324 hp	2017
69[1b]	Emergency Generator Engine	Building 3030	86 hp	2023
NA	Paved Roads	Fugitive PM	8,376,750 vehicle miles traveled per year	Various
NA	Unpaved Roads	Fugitive PM	23,506 vehicle miles traveled per year	Various

Notes:

1. The following changes from AQ0236MSS03 Revision 1 are as follows:
    a. EU ID 60 was removed from the source in 2023 and replaced by EU ID 60a.
    b. EU IDs 68 and 69 are new emergency engines.

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.

2. **Verification of Equipment Specifications and Maintenance of Equipment.** The Permittee shall install and maintain the equipment listed in Table 1 according to the manufacturer's or operator's maintenance procedures. Keep a copy of the manufacturer's or operator's maintenance procedure onsite and make records available to the Department personnel upon request. The records may be kept in electronic format.

Section 2 Fee Requirements

3. Fee Requirements. The Permittee shall pay to the Department all assessed permit fees. Fee rates are set out in 18 AAC 50.400 – 499.

4. Assessable Emissions. For each period from July 1 through the following June 30, 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 Department will assess fees per ton of each air pollutant that the stationary source emits or has the potential to emit. The quantity for which fees will be assessed is the lesser of the stationary source's

4.1. potential to emit of 206.81 TPY; or

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

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

b. material balance calculations;

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

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

5. Assessable Emission Estimates. The Permittee shall comply 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 as determined in Condition 4.2. Submit actual emissions estimates in accordance with the submission instructions on the Department's Standard Permit Conditions web page at http://dec.alaska.gov/air/air-permit/standard-conditions/standard-condition-i-submission-instructions/.

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

5.3. If no estimate or waiver letter 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 out in Condition 4.1.

Section 3 State Implementation Plan (SIP) Requirements

Fairbanks $PM_{2.5}$ Serious Nonattainment Area SIP Requirements

6. Diesel-Fired Boilers Emissions Limit. The Permittee shall limit the emissions from the diesel-fired boilers (EU IDs 8 – 10 and 40), as specified in Table 2.

Table 2 - EU IDs 8 – 10 and 40, SIP BACT Limits

Pollutant	BACT Control	Fuel Type	BACT Emissions Limit
$PM_{2.5}$	Good Combustion Practices and Limited Operation	Diesel	0.016 lb/MMBtu (3-hour average)

6.1. For EU IDs 8 – 10 and 40, the Permittee shall demonstrate compliance with the $PM_{2.5}$ BACT emissions limit contained in Table 2 as follows:

a. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance requirements and procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept on electronic format.

(iii) Keep a copy of the manufacturer's and the operator's maintenance procedures.

(iv) Report in accordance with Condition 14 summary of the maintenance records collected under Condition 6.1.a(ii).

b. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 2 in accordance each annual compliance certification described in Condition 15.

c. Report in accordance with Condition 13, whenever

(i) an emissions rate in Table 2 is exceeded, or

(ii) if any of the requirements in Conditions 6.1.a through 6.1.b are not met.

6.2. Limit the combined operation of EU IDs 8 through 10 to less than 600 hours per 12-month rolling period.

a. Monitor and record the time, date, and duration for which each of EU IDs 8 through 10 operate, calculate and record the cumulative total hours of operation per 12-consecutive month period.

b. Report in accordance with Condition 14 the operating hour records collected under Condition 6.2.a.

c. Report in accordance with Condition 13, whenever

(i) the combined operation of EU IDs 8 through 10 exceeds the limit in Condition 6.2; or

(ii) any of Condition 6.2.a through 6.2.b are not met.

7. Diesel-Fired Engines Emissions Limit (I). The Permittee shall limit the emissions from the diesel-fired engines (EU IDs 50, 51, and 53), as specified in Table 3.

Table 3 - EU IDs 50, 51, and 53, SIP BACT Limits

Pollutant	BACT Control	Fuel Type	BACT Emissions Limit
$PM_{2.5}$	Good Combustion Practices Limited Operation Combust only ULSD	ULSD	0.15 g/hp-hr

7.1. For EU IDs 50, 51, and 53, the Permittee shall demonstrate compliance with the $PM_{2.5}$ BACT emissions limit contained in Table 3 as follows:

a. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of either the manufacturer's and the operator's maintenance procedures.

b. Combust only ULSD fuel (limit of 15 ppmw). Monitor, record, and report as follows:

(i) For each shipment of fuel, keep receipts that specify fuel grade and amount.

c. Limit the maintenance checks, readiness testing, and non-emergency operation of each EU to 100 hours per calendar year.

(i) For EU IDs 50, 51, and 53, monitor, record, and report as follows:

(A) Maintain and operate a non-resettable hour meter on each engine, capable of recording the total hours of operation.

(B) By the end of each calendar month, record the total operating hours of each EU

(1) for the previous calendar month; and

(2) for the previous 12 consecutive months, as calculated using the records obtained under Condition 7.1.c(i)(B)(1).

d. Report in accordance with Condition 14:

(i) a summary of the maintenance records collected under Condition 7.1.a(ii);

(ii) copies of the records required by Condition 7.1.b(i); and

(iii) the operating records for each engine collected under Condition 7.1.c(i)(B)(2).

e. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 3 in accordance with each annual compliance certification described in Condition 15.

f. Report in accordance with Condition 13, whenever

(i) an emissions rate exceeds the limit in Table 3; or

(ii) if any of the requirements in Conditions 7.1.a through 7.1.e are not met.

8. Diesel-Fired Engines Emissions Limit (II). The Permittee shall limit the emissions from the diesel-fired engines (EU IDs 11 – 13), as specified in Table 4.

Table 4 - EU IDs 11 – 13, SIP BACT Limits

Pollutant	BACT Control	Fuel Type	BACT Emissions Limit
$PM_{2.5}$	Good Combustion Practices Limited Operation Combust only ULSD	ULSD	0.32 g/hp-hr

8.1. For EU IDs 11 – 13, the Permittee shall demonstrate compliance with the $PM_{2.5}$ BACT emissions limit contained in Table 4 as follows:

a. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of either the manufacturer's and the operator's maintenance procedures.

b. Combust only ULSD fuel (limit of 15 ppmw). Monitor, record, and report as follows:

(i) For each shipment of fuel, keep receipts that specify fuel grade and amount.

c. Limit the combined operation of EU IDs 11 through 13 to less than 600 hours per 12-month rolling period.

(i) Maintain and operate a non-resettable hour meter on each engine, capable of recording the total hours of operation.

(ii) By the end of each calendar month, record the total operating hours of each EU and the EUs combined

(A) for the previous calendar month; and

(B) for the previous 12 consecutive months, as calculated using the records obtained under Condition 8.1.c(ii)(A).

d. Report in accordance with Condition 14:

(i) a summary of the maintenance records collected under Condition 8.1.a(ii);

(ii) copies of the records required by Condition 8.1.b(i); and

(iii) the operating records for each engine collected under Condition 8.1.c(ii)(B).

e. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 4 in accordance each annual compliance certification described in Condition 15.

f. Report in accordance with Condition 13, whenever

(i) an emissions rate in Table 4 is exceeded, or

(ii) if any of the requirements in Conditions 8.1.a through 8.1.e are not met.

9. Diesel-Fired Engines Emissions Limit (III). The Permittee shall limit the emissions from the diesel-fired engines (EU ID 54), as specified in Table 5.

Table 5 - EU ID 54, SIP BACT Limits

Pollutant	BACT Control	Fuel Type	BACT Emissions Limit
$PM_{2.5}$	Good Combustion Practices and Limited Operation	ULSD	0.32 g/hp-hr

9.1. For EU ID 54, the Permittee shall demonstrate compliance with the $PM_{2.5}$ BACT emissions limit contained in Table 5 as follows:

a. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of either the manufacturer's and the operator's maintenance procedures.

b. Combust only ULSD fuel (limit of 15 ppmw). Monitor, record, and report as follows:

(i) For each shipment of fuel, keep receipts that specify fuel grade and amount.

c. Limit the maintenance checks, readiness testing, and non-emergency operation of the EU to 100 hours per calendar year.

(i) Monitor, record, and report as follows:

(A) Maintain and operate a non-resettable hour meter, capable of recording the total hours of operation.

(B) By the end of each calendar month, record the total operating hours of the EU

(1) for the previous calendar month; and

(2) for the previous 12 consecutive months, as calculated using the records obtained under Condition 9.1.c(i)(B)(1).

d. Report in accordance with Condition 14:

(i) a summary of the maintenance records collected under Condition 9.1.a(ii);

(ii) copies of the records required by Condition 9.1.b(i); and

(iii) the operating records collected under Condition 9.1.c(i)(B)(2).

e. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 5 in accordance each annual compliance certification described in Condition 15.

f. Report in accordance with Condition 13, whenever

(i) an emissions rate in Table 5 is exceeded, or

(ii) if any of the requirements in Conditions 9.1.a through 9.1.e are not met.

10. Small Diesel-Fired Engines Emissions Limit. The Permittee shall limit the emissions from the small diesel-fired engines (EU IDs 26 – 39, 52, and 55 – 69), as specified in Table 6.

Table 6 - EU IDs 26 – 39, 52, and 55 – 69, SIP BACT Limits

Pollutant	BACT Control	Fuel Type	BACT Emissions Limit
$PM_{2.5}$	Good Combustion Practices Combust only ULSD Limited Operation	ULSD	**EU IDs 29, 31 – 39, 52, 55, 57, 59, 61, and 63**
			0.0022 lb/hp-hr
			EU IDs 26, 28, 30, 60a, 64, 65, 66, and 68
			0.2 g/kW-hr
			EU ID 27
			0.3 g/kW-hr

			EU ID 56
			0.4 g/hp-hr
			EU IDs 58, 62, 67, and 69
			0.4 g/kW-hr

10.1. For EU IDs 26 – 39, 52, and 55 – 69, the Permittee shall demonstrate compliance with the $PM_{2.5}$ BACT emissions limit contained in Table 6 as follows:

a. Maintain good combustion practices at all times the EUs are in operation.

(i) Perform regular maintenance according to the manufacturer's and the operator's maintenance procedures.

(ii) Keep records of any maintenance that would have a significant effect on emissions. The records may be kept in electronic format.

(iii) Keep a copy of either the manufacturer's and the operator's maintenance procedures.

b. Combust only ULSD fuel (limit of 15 ppmw). Monitor, record, and report as follows:

(i) For each shipment of fuel, keep receipts that specify fuel grade and amount.

c. Limit the maintenance checks, readiness testing, and non-emergency operation of each EU to 100 hours per calendar year.

(i) For each of EU IDs 26 – 39, 52, and 55 – 69, monitor and record as follows:

(A) Maintain and operate a non-resettable hour meter, capable of recording the total hours of operation.

(B) By the end of each calendar month, record the total operating hours of each EU

(1) for the previous calendar month; and

(2) for the previous 12 consecutive months, as calculated using the records obtained under Condition 10.1.c(i)(B)(1).

d. Report in accordance with Condition 14:

(i) a summary of the maintenance records collected under Condition 10.1.a(ii);

(ii) copies of the records required by Condition 10.1.b(i); and

(iii) the operating records for each engine collected under Condition 10.1.c(i)(B)(2).

e. Report the compliance status with the $PM_{2.5}$ emissions limit in Table 6 in accordance each annual compliance certification described in Condition 15.

f. Report in accordance with Condition 13, whenever

(i) an emissions rate in Table 6 is exceeded, or

(ii) if any of the requirements in Conditions 10.1.a through 10.1.e are not met.

Section 4 Recordkeeping, Reporting, and Certification Requirements

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 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.

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

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

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

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

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

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

13.1. **Excess Emissions Reporting.** The Permittee shall report all emissions or operations that exceed emissions standards or limits of this permit as follows:

a. In accordance with 18 AAC 50.240(c), as soon as possible after the event commenced or is discovered, report

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

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

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

c. If a continuous or recurring excess emissions is not corrected within 48 hours of discovery, report within 72 hours of discovery unless the Department provides written permission to report under Condition 13.1.d.

d. Report all other excess emissions not described in Conditions 13.1.a, 13.1.b, and 13.1.c within 30 days after the end of the month during which the excess emissions occurred or as part of the next routine operating report in Condition 14 for excess emissions that occurred during the period covered by the report, whichever is sooner.

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

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

a. Report all other permit deviations within 30 days after the end of the month during which the deviation occurred or as part of the next routine operating report in Condition 14 for permit deviations that occurred during the period covered by the report, whichever is sooner.

13.3. **Reporting Instruction.** When reporting either excess emissions or permit deviations, the Permittee shall report using the Department's online form for all such submittals, beginning no later than September 7, 2023. The form can be found at the Division of Air Quality's Air Online Services (AOS) system webpage http://dec.alaska.gov/applications/air/airtoolsweb using the Permittee Portal option. Alternatively, upon written Department approval, the Permittee may submit the form contained in Section 8 of this permit. The Permittee must provide all information called for by the form that is used. Submit the report in accordance with the submission instructions on the Department's Standard Permit Conditions webpage found at http://dec.alaska.gov/air/air-permit/standard-conditions/standard-conditions-iii-and-iv-submission-instructions/.

14. Operating Reports. During the life of this permit[1], the Permittee shall submit to the Department an operating report in accordance with Conditions 11 and 12 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.

14.1. The operating report must include all information required to be in operating reports by other conditions of this permit, for the period covered by the report.

14.2. When excess emissions or permit deviations that occurred during the reporting period are not included with the operating report under Condition 14.1, the Permittee shall identify

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

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

b. the equipment involved;

c. the permit condition affected;

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

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

14.3. when excess emissions or permit deviation reports have already been reported under Condition 13 during the period covered by the operating report, the Permittee shall either

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

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

15. Annual Compliance Certification. Each year by March 31, the Permittee shall compile and submit to the Department an annual compliance certification report according to Condition 11.

15.1. Certify the compliance status of the stationary source over the preceding calendar year consistent with the monitoring required by this permit, as follows:

a. identify each term or condition set forth in Section 2through Section 6, that is the basis of the certification;

b. briefly describe each method used to determine the compliance status;

c. state whether compliance is intermittent or continuous; and

d. identify each deviation and take it into account in the compliance certification.

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

Section 5 Standard Permit Conditions

16. 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

16.1. an enforcement action; or

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

17. It is not a defense in an enforcement action to claim that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with a permit term or condition.

18. 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.

19. 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.

20. The permit does not convey any property rights of any sort, nor any exclusive privilege.

21. 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

21.1. enter upon the premises where an emissions unit subject to this permit is located or where records required by the permit are kept;

21.2. have access to and copy any records required by this permit;

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

21.4. sample or monitor substances or parameters to assure compliance with the permit or other applicable requirements.

Section 6 General Source Test Requirements

22. 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.

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

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

23.2. at the maximum rated burning or operating capacity of the emissions unit or another rate determined by the Department to characterize the actual discharge into the ambient air.

24. Reference Test Methods. The Permittee shall use the following references for test methods when conducting source testing for compliance with this permit:

24.1. 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 1 of this permit to record data.

24.2. 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.

24.3. Source testing for emissions of PM_{10} and $PM_{2.5}$ must be conducted in accordance with the procedures specified in 40 C.F.R. 51, Appendix M, Methods 201 or 201A and 202.

24.4. 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.

25. Excess Air Requirements. To determine compliance with this permit, standard exhaust gas volumes must include only the volume of gases formed from the theoretical combustion of the fuel, plus the excess air volume normal for the specific emissions unit type, corrected to standard conditions (dry gas at 68° F and an absolute pressure of 760 millimeters of mercury).

26. 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.

27. **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 plan within 60 days after receiving a request under Condition 22 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.

28. **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.

29. **Test Reports.** Within 60 days after completing a source test, the Permittee shall submit one certified copy of the results in the format set out in the *Source Test Report Outline*, adopted by reference in 18 AAC 50.030. The Permittee shall certify the results in the manner set out in Condition 11. If requested in writing by the Department, the Permittee must provide preliminary results in a shorter period of time specified by the Department.

Section 7 Permit Documentation

Date	Document Details
July 30, 2024	The Department sent U.S. Army Garrison a Notice of Intent to Revoke and Reissue Minor Permit No. AQ0236MSS03 Revision 1.
September 20, 2024	Preliminary Draft Minor Permit No. AQ0236MSS03 Revision 2 and TAR sent for public notice.

Section 8 Notification Form[2]

USAG Alaska Fort Wainwright
Stationary Source Name

AQ0236MSS03 Revision 2
Air Quality Permit Number.

U.S**. Army Garrison**
Company Name

When did you discover the Excess Emissions/Permit Deviation?

Date: ____/____/____ Time: ____:____

When did the event/deviation occur?

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

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

What was the duration of the event/deviation? ____:____ (hrs:min) or ____days

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

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

☐ Excess Emissions - Complete Section 1 and Certify

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

☐ Deviation from Permit Conditions - Complete Section 2 and Certify

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

☐ Deviation from COBC[3], CO[4], or Settlement Agreement - Complete Section 2 and Certify

[2] Revised as of July 22, 2020.
[3] Compliance Order By Consent
[4] Compliance Order

Section 1. Excess Emissions

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

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

☐Start Up/Shut Down
☐Natural Cause (weather/earthquake/flood)
☐Control Equipment Failure
☐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. Attach supporting information if necessary.

(d) **Emissions Units (EU) Involved:**

Identify the emissions 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	EU Name	Permit Condition Exceeded/Limit/Potential Exceedance

(e) **Type of Incident:** (Please check all that apply and provide the value requested, if any):

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

(f) **Corrective Actions:**

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

(g) **Unavoidable Emissions:**

Do you intend to assert that these excess emissions were unavoidable? ☐YES ☐NO

Do you intend to assert the affirmative defense of 18 AAC 50.235? ☐YES ☐NO

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

Section 2. Permit Deviations

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

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

(b) **Emissions Units (EU) Involved:**

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

EU ID	EU Name	Permit Condition /Potential Deviation

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

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

(d) **Corrective Actions:**

Describe actions taken to correct the deviation or potential deviation and to prevent future recurrence. Attach supporting information if necessary.

Certification:

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

Printed Name:_____Title_____Date _____

Signature:_____ Phone number_____

NOTE: *This document must be certified in accordance with 18 AAC 50.345(j). Read and sign the certification in the bottom of the form above. (See Condition 11.)*

Beginning September 7, 2023, Excess Emissions and Permit Deviations must be submitted through the AOS Permittee Portal at http://dec.alaska.gov/applications/air/airtoolsweb/.

This Notification Form may only be used to satisfy the reporting requirements if the Department has approved alternative reporting options in writing prior to submittal.

[18 AAC 50.346(b)(3)]