Maryland
Department of
the Environment

Wes Moore, Governor
Aruna Miller, Lt. Governor

Serena McIlwain, Secretary
Suzanne E. Dorsey, Deputy Secretary
Adam Ortiz, Deputy Secretary

Dr. Hazoor Khan, Engineer
Environmental Compliance Branch
U.S. Army Garrison, Aberdeen Proving Ground
4303 Rodman Road
Aberdeen Proving Ground, MD 21005-5001

APR 15 2026

Dear Dr. Khan:

Re: Renewal Part 70/ Title V Operating Permit 24-025-0081 Aberdeen Area

Enclosed, please find the Renewal Part 70/Title V Operating Permit and Fact Sheet for the U.S. Army Garrison, Aberdeen Proving Ground, Aberdeen Area. The Permit will expire on January 31, 2030.

The Code of Maryland Regulations (COMAR) 26.11.03.11 states the following:

If the Department denies a Part 70 permit or issues it with terms and conditions that are objectionable to the applicant, the applicant may request that a contested case hearing be held regarding the permit. This request shall be made to the Department in writing not later than 15 days after the applicant receives notice that the permit has been denied or of the objectionable terms and conditions. The request shall include the basis for the request and refer to any objectionable terms and conditions.

Please note the following revised condition in the Permit under Section II, General Conditions, Number 5, Permit Renewal:

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit 12 months before the expiration of the permit. Upon submitting a complete application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

If you have any questions, please feel free to contact Mr. Schuyler Fearins at shuyler.fearins@maryland.gov or (410) 537-3764.

Sincerely,

Suna Yi Sariscak, Manager
Air Quality Permits Program
Air & Radiation Administration

SYS/jm

Enclosures

cc: EPA Region III (w/encl)

KEEP PERMIT AT SITE

CONTROL NO. B - 08114

Wes Moore
Governor

Serena McIlwain
Secretary

State of Maryland

DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Administration
1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

[ ] Construction Permit

[X] Part 70 Operating Permit

PERMIT NO. 24-025-0081

DATE ISSUED APR 15 2026

PERMIT FEE To be paid in accordance with COMAR 26.11.02.19B

EXPIRATION DATE January 31, 2030

LEGAL OWNER & ADDRESS

U. S Army Garrison Aberdeen Proving Ground
6504 Rodman Road, Building 4304
Aberdeen Proving Ground, MD 21005-5001
Attn: Dr. Hazoor B. Khan

SITE

APG-Aberdeen Area
Aberdeen Proving Ground, MD 21005
Harford County
AI # 26474

SOURCE DESCRIPTION

Renewal Part 70 Permit to Operate for one military facility.

This source is subject to the conditions described on the attached pages.

Program Manager

Director, Air and Radiation Administration

MDE/ARMA/PER.009 (REV. 10-08-03)

(NOT TRANSFERABLE)

U.S. ARMY GARRISON ABERDEEN PROVING GROUND
ABERDEEN AREA
6504 RODMAN ROAD, BLDG 4304
ABERDEEN PROVING GROUND, MD 21005-5001
PART 70 OPERATING PERMIT NO. 24-025-0081

SECTION I SOURCE IDENTIFICATION

1. DESCRIPTION OF FACILITY

The Aberdeen Proving Ground (APG) is a military installation for the testing of military equipment, laboratory research, and training. APG is divided into two distinct areas: the northern Aberdeen Area and the southern Edgewood Area. This Part 70 permit application is for the Aberdeen Area of APG. The regulated activities which produce air emissions at the Aberdeen Area include space heating, process and NSPS boilers, emergency generators, stationary engines, paint spray booths, underground storage tanks, fire test laboratory and an atmospheric burner at Heat Engine Systems Altitude Test Facility (HESATF). The applicable primary SIC code is 9711.

2. FACILITY INVENTORY LIST

Emissions Unit	ARA Registration Number	Description	Date of Installation
Miscellaneous – Consolidated oil-fired	4-0619	Consolidated Oil-fired boilers rated between 1-10 million Btu per hour heat input.	Various
0445-A01	4-0707	One (1) Burnham No. 2 fuel oil fired boiler rated at 1.116 million Btu per hour heat input	2013
0394-A01	4-0708	One (1) Smith No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2010
0339-A01	4-0710	One (1) Peerless No. 2 fuel oil fired boiler rated at 2.06 million Btu per hour heat input	2009
0507-A05	4-0717	One (1) Cleaver Brooks No. 2 fuel oil fired boiler rated at 6.70 million Btu per hour heat input	2016
0507-A04	4-0104	One (1) Cleaver Brooks No. 2 fuel oil fired boiler rated at 8.164 million Btu per hour heat input	1997
0642-A01	4-0689	One (1) Burnham No. 2 fuel oil fired boiler rated at 1.90 million Btu per hour heat input	2009

Emissions Unit	ARA Registration Number	Description	Date of Installation
0643-A01	4-0721	One (1) Cleaver Brooks No. 2 fuel oil fired boiler rated at 1.143 million Btu per hour heat input	2016
0688-A01	4-0720	One (1) Burnham No. 2 fuel oil fired boiler rated at 1.713 million Btu per hour heat input	2016
0670-A01	4-0719	One (1) Bryan No. 2 fuel oil fired boiler rated at 2.088 million Btu per hour heat input	2016
26-0449-A01	4-0722	One (1) HB Smith Cast Iron Fuel oil fired boiler, rated at 2.088-MMBtu/hr. located Bldg. A0449	2016
906C-A01	4-0724	One (1) Weil McLain fuel oil fired boiler, each rated at 1.23-MMBtu/hr.	2018
Miscellaneous – Consolidated natural gas	5-0152	Consolidated natural gas-fired boilers rated between 1-10 million Btu per hour heat input.	Various
26-6007-C2CNT West-A01 thru A04	5-0298	Four (4) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input	2009
26-6006-GMS Tower-A01 thru A03	5-0299	Three (3) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input and equipped with low NO_X burners	2009
26-6002-HQ Building-A01 thru A05	5-0300	Five (5) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input	2009
26-6003-GMS Lab-A01 thru A03	5-0301	Three (3) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input	2009
5100-A01 & A02	5-0309 & 5-0310	Two (2) natural gas fired boilers each rated at 3.00 million Btu per hour heat input	2010
26-0525-A02	5-0315	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.17 million Btu per hour heat input	2010
26-3660-A01	5-0318	One (1) natural gas/No. 2 fuel oil fired boiler rated at 1.83-MMBtu/hr.	2019

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PART 70 OPERATING PERMIT NO. 24-025-0081

Emissions Unit	ARA Registration Number	Description	Date of Installation
2202-A01 & A02	5-0322	Two (2) Harsco Kelly natural gas fired boilers each rated at 2.00 million Btu per hour heat input	2010
26-0525-A03	5-0334	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.37 million Btu per hour heat input	1985
26-0525-A01	5-0335	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.37 million Btu per hour heat input	1985
26-04119-A03	5-0336	One (1) natural gas fired boiler rated at 8.17-MMBtu/hr.	2014
26-0459-A02	5-0337	One (1) Cleaver Brooks, Model CB200-50-30-HW natural gas-fired boiler rated at 2.095 million Btu per hour heat input located at building 0459	2011
26-367-A01	5-0352	Camus DR-1000 Propane fired boiler (Bldg. 367-ARL/AMSSA Compound). General Permit issued May 6, 2014	2014
26-2485-A01	5-0367	One (1) Harsco Patterson-Kelly natural gas fired boiler rated at 2.0-MMBtu/hr.	2016
3660-A01	5-0371	One (1) RBI Futera Fusion natural gas fired boiler rated at 2.50 million Btu per hour heat input	2016
0383A-A01 & -A02	5-0376	Two (2) Cleaver Brooks natural gas fired boilers, each rated at 3.347-MMBtu/hr.	2017
5046-A01 thru A03	5-0377	Three (3) Camus natural gas fired boilers, each rated at 1.50-MMBtu/hr.	2018
2522-A01	5-0378	GP- small fuel burning - Bldg. 2522	2019
26-0400-A02 & -A03	5-0384	Two (2) Cleaver Brooks natural gas fired boilers, each rated at 1.69-MMBtu/hr.	2020
NSPS Boilers			
26-0345-A01 &A02	5-0079 & 5-0080	Two (2) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers, each rated at 64 million Btu per hour heat input	1994
26-0345-A03	5-0081	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 23.4 million Btu per hour heat input	1996

Emissions Unit	ARA Registration Number	Description	Date of Installation
26-4600-A06 & A08	5-0085 & 5-0087	Two (2) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers each rated at 21 million Btu per hour heat input.	1995
26-5014-A01 & A02	5-0164 & 5-0165	Two (2) H.B. Smith natural gas/No. 2 fuel oil fired boilers each rated at 13.5 million Btu per hour heat input	1991
26-4600-A09	5-0370	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers each rated at 20.13 million Btu per hour heat input.	2016
Process Boilers			
26-4219-A02	4-0522N	One (1) Clever Brooks oil-fired boiler rated at 8.4 million BTU per hour.	1994
26-4219-A03	5-0308	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.165 million Btu per hour heat input	2009
26-04312-A01 & A02	5-0364	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 4.18 million Btu per hour heat input	2015
26-3062-A02	5-0378	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 12.5 million Btu per hour heat input	2009
26-4404-A04	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.70-MMBtu/hr.	1999
26-04404-A06		One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.17-MMBtu/hr.	2012
Spray Booth			
07-0525-A04 & A06	6-0162 & 6-0159	Two (2) custom made cross draft paint spray booths	1960
Generators			
03-0328-A01	9-0229	One (1) emergency generator rated at 1072 bhp	1997
03-0394-A01 & A02	9-0227 & 9-0228	Two (2) emergency generators each rated at 1341 bhp	1997
03-4600-A04 & A05	9-0276 & 9-0277	Two (2) emergency generators each rated at 1877 bhp at ARL Materials Research Lab	1996
03-0394-A03 thru A07	9-0386 thru 9-0390	Five (5) Cummins emergency generator sets each rated at 750 bhp (500-kW) located in Bldg. 394-ARL Compound.	2008

Emissions Unit	ARA Registration Number	Description	Date of Installation
26-6003-GMS Lab-A04	9-0393	One (1) 2500 kW (3778 bhp) Cummins diesel emergency generator set (Tier I certified) to be located at C4ISR-Research and Development – GMS Lab Building.	2009
26-6007-C2CNT West-A05	9-0394	One (1) 1500 kW (2200 bhp) Cummins diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – C2CNT West Building	2008
26-6006-GMS Tower-A04	9-0395	One (1) 1500 kW (2200 bhp) Cummins diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – GMS Tower Building	2008
26-6002-HQ Building-A06	9-0396	One (1) 2000 kW (2922 bhp) Cummins diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – HQ Building 2 and serves both HQ Building 1 & HQ Building 2.	2008
0120-A01	9-0408	One (1) Cummins emergency generator rated at 2922 bhp	2012
0316-A01	9-0409	One (1) Cummins emergency generator rated at 2000-kW located at Bldg. 316	2012
3090-JSEC-A01	9-0410	One (1) emergency generator rated at 2923 bhp	2010
6009-C2CNT East SEC	9-0412	One (1) emergency generator rated at 2200 bhp	2010
6010-C2CNT East	9-0411	Two (2) emergency generators each rated at 2919 bhp	2019
0328-A02	09-0414	One (1) emergency generator rated at 761 bhp	2006
0328-A03	9-0418	One (1) Detroit emergency generator rated at 804 bhp	2006
0311-A01	9-0419	One (1) emergency generator rated at 447 kW (600 brake horsepower)	1986
0120-A02	9-0433	One (1) Cummins emergency generator rated at 2922 bhp	2012
0120-A03	9-0434	One (1) Cummins emergency generator rated at 2922 bhp	2012

Emissions Unit	ARA Registration Number	Description	Date of Installation
3147-A01	9-0491	One (1) Katolight diesel fired emergency generator rated at 500-kW (670-bhp)	2015
2202-A01	9-0499	One (1) emergency generator rated at 755 bhp	2015
3660-A01	9-0500	One (1) Kohler diesel fired emergency generator rated at 643-bhp	1995
0120-A04	9-0503	One (1) Cummins emergency generator rated at 2922 bhp	2017
0120-A05	9-0504	One (1) Cummins emergency generator rated at 2922 bhp	2016
5016-A01	9-0510	One (1) Cummins emergency generator rated at 2346 bhp	2017
5046-A01	9-0509	One (1) Cummins emergency generator rated at 617 bhp	2017
3511-A01 & A02	9-0539 & 9-540	Two (2) MTU 16V4000G84F diesel fired emergency generator sets, each rated at 2970-hp. PTC issued 2/27/2024	2024
436-A01	9-0548	One (1) MTU 8V1600DS400 diesel fired emergency generator set rated at 460-kW, Bldg. 463 (Tier III). GP issued 4/30/2025	2025
Non-Emergency Generators			
BSS-01	9-0435	One (1) Detroit non-emergency generator rated at 600 bhp	2001
LWE-01 through LWE-05	9-0436	Five (5) Detroit non-emergency generators each rated at 550 bhp	2006
UTF-01	9-0437	One (1) Cummins non-emergency generator rated at 500 bhp	1993
Miscellaneous			
26-4029-A03 & A05	9-0152	Two (2) 20,000-gallon underground storage tanks equipped with Stage I vapor recovery systems	1993
07-00P17-A01	9-0212	One (1) Fire Safety Test Enclosure facility	September 1997

SECTION II GENERAL CONDITIONS

1. DEFINITIONS

[COMAR 26.11.01.01] and [COMAR 26.11.02.01]

The words or terms in this Part 70 permit shall have the meanings established under COMAR 26.11.01 and .02 unless otherwise stated in this permit.

2. ACRONYMS

ARA	Air and Radiation Administration
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CEM	Continuous Emissions Monitor
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMAR	Code of Maryland Regulations
EPA	United States Environmental Protection Agency
FR	Federal Register
gr	grains
HAP	Hazardous Air Pollutant
MACT	Maximum Achievable Control Technology
MDE	Maryland Department of the Environment
MVAC	Motor Vehicle Air Conditioner
NESHAPS	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OTR	Ozone Transport Region
PM	Particulate Matter
PM_{10}	Particulate Matter with Nominal Aerodynamic Diameter of 10 micrometers or less
ppm	parts per million
ppb	parts per billion
PSD	Prevention of Significant Deterioration
PTC	Permit to construct
PTO	Permit to operate (State)
SIC	Standard Industrial Classification

SO_2	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	tons per year
VE	Visible Emissions
VOC	Volatile Organic Compounds

3. EFFECTIVE DATE

The effective date of the conditions in this Part 70 permit is the date of permit issuance, unless otherwise stated in the permit.

4. PERMIT EXPIRATION

[COMAR 26.11.03.13B(2)]

Upon expiration of this permit, the terms of the permit will automatically continue to remain in effect until a new Part 70 permit is issued for this facility provided that the Permittee has submitted a timely and complete application and has paid applicable fees under COMAR 26.11.02.16.

Otherwise, upon expiration of this permit the right of the Permittee to operate this facility is terminated.

5. PERMIT RENEWAL

[COMAR 26.11.03.02B(3)] and [COMAR 26.11.03.02E]

The Permittee shall submit to the Department a completed application for renewal of this Part 70 permit at least 12 months before the expiration of the permit. Upon submitting a completed application, the Permittee may continue to operate this facility pending final action by the Department on the renewal.

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information no later than 10 days after becoming aware that this occurred. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a completed application was submitted, but prior to the release of a draft permit. This

information shall be submitted to the Department no later than 20 days after a new requirement has been adopted.

6. CONFIDENTIAL INFORMATION

[COMAR 26.11.02.02G]

In accordance with the provisions of the State Government Article, Sec. 10-611 et seq., Annotated Code of Maryland, all information submitted in an application shall be considered part of the public record and available for inspection and copying, unless the Permittee claims that the information is confidential when it is submitted to the Department. At the time of the request for inspection or copying, the Department will make a determination with regard to the confidentiality of the information. The Permittee, when requesting confidentiality, shall identify the information in a manner specified by the Department and, when requested by the Department, promptly provide specific reasons supporting the claim of confidentiality. Information submitted to the Department without a request that the information be deemed confidential may be made available to the public. Subject to approval of the Department, the Permittee may provide a summary of confidential information that is suitable for public review. The content of this Part 70 permit is not subject to confidential treatment.

7. PERMIT ACTIONS

[COMAR 26.11.03.06E(3)] and [COMAR 26.11.03.20(A)]

This Part 70 permit may be revoked or reopened and revised for cause. The filing of an application by the Permittee for a permit revision or renewal; or a notification of termination, planned changes or anticipated noncompliance by the facility, does not stay a term or condition of this permit.

The Department shall reopen and revise, or revoke the Permittee's Part 70 permit under the following circumstances:

a. Additional requirements of the Clean Air Act become applicable to this facility and the remaining permit term is 3 years or more;

b. The Department or the EPA determines that this Part 70 permit contains a material mistake, or is based on false or inaccurate information supplied by or on behalf of the Permittee;

c. The Department or the EPA determines that this Part 70 permit must be revised or revoked to assure compliance with applicable requirements of the Clean Air Act; or

d. Additional requirements become applicable to an affected source under the Federal Acid Rain Program.

8. PERMIT AVAILABILITY

[COMAR 26.11.02.13G]

The Permittee shall maintain this Part 70 permit in the vicinity of the facility for which it was issued, unless it is not practical to do so, and make this permit immediately available to officials of the Department upon request.

9. REOPENING THE PART 70 PERMIT FOR CAUSE BY THE EPA

[COMAR 26.11.03.20B]

The EPA may terminate, modify, or revoke and reissue a permit for cause as prescribed in 40 CFR §70.7(g)

10. TRANSFER OF PERMIT

[COMAR 26.11.02.02E]

The Permittee shall not transfer this Part 70 permit except as provided in COMAR 26.11.03.15.

11. REVISION OF PART 70 PERMITS – GENERAL CONDITIONS

[COMAR 26.11.03.14] and [COMAR 26.11.03.06A(8)]

a. The Permittee shall submit an application to the Department to revise this Part 70 permit when required under COMAR 26.11.03.15 -.17.

b. When applying for a revision to a Part 70 permit, the Permittee shall comply with the requirements of COMAR 26.11.03.02 and .03 except that the application for a revision need include only information listed that is related to the proposed change to the source and revision to the permit. This information shall be sufficient to evaluate the proposed change and to determine whether it will comply with all applicable requirements of the Clean Air Act.

c. The Permittee may not change any provision of a compliance plan or schedule in a Part 70 permit as an administrative permit amendment or as a minor permit modification unless the change has been approved by the Department in writing.

d. A permit revision is not required for a change that is provided for in this permit relating to approved economic incentives, marketable permits, emissions trading, and other similar programs.

12. SIGNIFICANT PART 70 OPERATING PERMIT MODIFICATIONS

[COMAR 26.11.03.17]

The Permittee may apply to the Department to make a significant modification to its Part 70 Permit as provided in COMAR 26.11.03.17 and in accordance with the following conditions:

a. A significant modification is a revision to the federally enforceable provisions in the permit that does not qualify as an administrative permit amendment under COMAR 26.11.03.15 or a minor permit modification as defined under COMAR 26.11.03.16.

b. This permit does not preclude the Permittee from making changes, consistent with the provisions of COMAR 26.11.03, that would make the permit or particular terms and conditions of the permit irrelevant, such as by shutting down or reducing the level of operation of a source or of an emissions unit within the source. Air pollution control equipment shall not be shut down or its level of operation reduced if doing so would violate any term of this permit.

c. Significant permit modifications are subject to all requirements of COMAR 26.11.03 as they apply to permit issuance and renewal,

including the requirements for applications, public participation, and review by affected states and EPA, except:

(1) An application need include only information pertaining to the proposed change to the source and modification of this permit, including a description of the change and modification, and any new applicable requirements of the Clean Air Act that will apply if the change occurs;

(2) Public participation, and review by affected states and EPA, is limited to only the application and those federally enforceable terms and conditions of the Part 70 permit that are affected by the significant permit modification.

d. As provided in COMAR 26.11.03.15B(5), an administrative permit amendment may be used to make a change that would otherwise require a significant permit modification if procedures for enhanced preconstruction review of the change are followed that satisfy the requirements of 40 CFR 70.7(d)(1)(v).

e. Before making a change that qualifies as a significant permit modification, the Permittee shall obtain all permits-to-construct and approvals required by COMAR 26.11.02.

f. The Permittee shall not make a significant permit modification that results in a violation of any applicable requirement of the Clean Air Act.

g. The permit shield in COMAR 26.11.03.23 applies to a final significant permit modification that has been issued by the Department, to the extent applicable under COMAR 26.11.03.23.

13. MINOR PERMIT MODIFICATIONS

[COMAR 26.11.03.16]

The Permittee may apply to the Department to make a minor modification to the federally enforceable provisions of this Part 70 permit as provided in COMAR 26.11.03.16 and in accordance with the following conditions:

a. A minor permit modification is a Part 70 permit revision that:

(1) Does not result in a violation of any applicable requirement of the Clean Air Act;

(2) Does not significantly revise existing federally enforceable monitoring, including test methods, reporting, record keeping, or compliance certification requirements except by:

(a) Adding new requirements,

(b) Eliminating the requirements if they are rendered meaningless because the emissions to which the requirements apply will no longer occur, or

(c) Changing from one approved test method for a pollutant and source category to another;

(3) Does not require or modify a:

(a) Case-by-case determination of a federally enforceable emissions standard,

(b) Source specific determination for temporary sources of ambient impacts, or

(c) Visibility or increment analysis;

(4) Does not seek to establish or modify a federally enforceable permit term or condition for which there is no corresponding underlying applicable requirement of the Clean Air Act, but that the Permittee has assumed to avoid an applicable requirement to which the source would otherwise be subject, including:

(a) A federally enforceable emissions standard applied to the source pursuant to COMAR 26.11.02.03 to avoid classification as a Title I modification; and

(b) An alternative emissions standard applied to an emissions unit pursuant to regulations promulgated under Section 112(i)(5) of the Clean Air Act

(5) Is not a Title I modification; and

(6) Is not required under COMAR 26.11.03.17 to be processed as a significant modification to this Part 70 permit.

b. Application for a Minor Permit Modification

The Permittee shall submit to the Department an application for a minor permit modification that satisfies the requirements of COMAR 26.11.03.03 which includes the following:

(1) A description of the proposed change, the emissions resulting from the change, and any new applicable requirements that will apply if the change is made;

(2) The proposed minor permit modification;

(3) Certification by a responsible official, in accordance with COMAR 26.11.02.02F, that:

(a) The proposed change meets the criteria for a minor permit modification, and

(b) The Permittee has obtained or applied for all required permits-to-construct required by COMAR 26.11.03.16 with respect to the proposed change;

(4) Completed forms for the Department to use to notify the EPA and affected states, as required by COMAR 26.11.03.07-.12.

c. Permittee's Ability to Make Change

(1) For changes proposed as minor permit modifications to this permit that will require the applicant to obtain a permit to construct, the permit to construct must be issued prior to the new change.

(2) During the period of time after the Permittee applies for a minor modification but before the Department acts in accordance with COMAR 26.11.03.16F(2):

(a) The Permittee shall comply with applicable requirements of the Clean Air Act related to the change and the permit

terms and conditions described in the application for the minor modification.

(b) The Permittee is not required to comply with the terms and conditions in the permit it seeks to modify. If the Permittee fails to comply with the terms and conditions in the application during this time, the terms and conditions of both this permit and the application for modification may be enforced against it.

d. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.16 is not within the scope of this regulation.

e. Minor permit modification procedures may be used for Part 70 permit modifications involving the use of economic incentives, marketable permits, emissions trading, and other similar approaches, but only to the extent that the minor permit modification procedures are explicitly provided for in regulations approved by the EPA as part of the Maryland SIP or in other applicable requirements of the Clean Air Act.

14. ADMINISTRATIVE PART 70 OPERATING PERMIT AMENDMENTS

[COMAR 26.11.03.15]

The Permittee may apply to the department to make an administrative permit amendment as provided in COMAR 26.11.03.15 and in accordance with the following conditions:

a. An application for an administrative permit amendment shall:

(1) Be in writing;

(2) Include a statement certified by a responsible official that the proposed amendment meets the criteria in COMAR 26.11.03.15 for an administrative permit amendment, and

(3) Identify those provisions of this part 70 permit for which the amendment is requested, including the basis for the request.

b. An administrative permit amendment:

(1) Is a correction of a typographical error;

(2) Identifies a change in the name, address, or phone number of a person identified in this permit, or a similar administrative change involving the Permittee or other matters which are not directly related to the control of air pollution;

(3) requires more frequent monitoring or reporting by the Permittee;

(4) Allows for a change in ownership or operational control of a source for which the Department determines that no other revision to the permit is necessary and is documented as per COMAR 26.11.03.15B(4);

(5) Incorporates into this permit the requirements from preconstruction review permits or approvals issued by the Department in accordance with COMAR 26.11.03.15B(5), but only if it satisfies 40 CFR 70.7(d)(1)(v);

(6) Incorporates any other type of change, as approved by the EPA, which is similar to those in COMAR 26.11.03.15B(1)—(4);

(7) Notwithstanding COMAR 26.11.03.15B(1)—(6), all modifications to acid rain control provisions included in this Part 70 permit are governed by applicable requirements promulgated under Title IV of the Clean Air Act; or

(8) Incorporates any change to a term or condition specified as State-only enforceable, if the Permittee has obtained all necessary permits-to-construct and approvals that apply to the change.

c. The Permittee may make the change addressed in the application for an administrative amendment upon receipt by the Department of the application, if all permits-to-construct or approvals otherwise required by COMAR 26.11.02 prior to making the change have first been obtained from the Department.

d. The permit shield in COMAR 26.11.03.23 applies to administrative permit amendments made under Section B(5) of COMAR 26.11.03.15, but only after the Department takes final action to revise the permit.

e. The Permittee is subject to enforcement action if it is determined at any time that a change made under COMAR 26.11.03.15 is not within the scope of this regulation.

15. OFF-PERMIT CHANGES TO THIS SOURCE

[COMAR 26.11.03.19]

The Permittee may make off-permit changes to this facility as provided in COMAR 26.11.03.19 and in accordance with the following conditions:

a. The Permittee may make a change to this permitted facility that is not addressed or prohibited by the federally enforceable conditions of this Part 70 permit without obtaining a Part 70 permit revision if:

(1) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;

(2) The change is not subject to any requirements under Title IV of the Clean Air Act;

(3) The change is not a Title I modification; and

(4) The change does not violate an applicable requirement of the Clean Air Act or a federally enforceable term or condition of the permit.

b. For a change that qualifies under COMAR 26.11.03.19, the Permittee shall provide contemporaneous written notice to the Department and the EPA, except for a change to an emissions unit or activity that is exempt from the Part 70 permit application, as provided in COMAR 26.11.03.04. This written notice shall describe the change, including the date it was made, any change in emissions, including the pollutants emitted, and any new applicable requirements of the Clean Air Act that apply as a result of the change.

c. Upon satisfying the requirements of COMAR 26.11.03.19, the Permittee may make the proposed change.

d. The Permittee shall keep a record describing:

(1) Changes made at the facility that result in emissions of a regulated air pollutant subject to an applicable requirement of the Clean Air Act, but not otherwise regulated under this permit; and

(2) The emissions resulting from those changes.

e. Changes that qualify under COMAR 26.11.03.19 are not subject to the requirements for Part 70 revisions.

f. The Permittee shall include each off-permit change under COMAR 26.11.03.19 in the application for renewal of the part 70 permit.

g. The permit shield in COMAR 26.11.03.23 does not apply to off-permit changes made under COMAR 26.11.03.19.

h. The Permittee is subject to enforcement action if it is determined that an off-permit change made under COMAR 26.11.03.19 is not within the scope of this regulation.

16. ON-PERMIT CHANGES TO SOURCES

[COMAR 26.11.03.18]

The Permittee may make on-permit changes that are allowed under Section 502(b)(10) of the Clean Air Act as provided in COMAR 26.11.03.18 and in accordance with the following conditions:

a. The Permittee may make a change to this facility without obtaining a revision to this Part 70 permit if:

(1) The change is not a Title I modification;

(2) The change does not result in emissions in excess of those expressly allowed under the federally enforceable provisions of the Part 70 permit for the permitted facility or for an emissions

unit within the facility, whether expressed as a rate of emissions or in terms of total emissions;

(3) The Permittee has obtained all permits and approvals required by COMAR 26.11.02 and .03;

(4) The change does not violate an applicable requirement of the Clean Air Act;

(5) The change does not violate a federally enforceable permit term or condition related to monitoring, including test methods, record keeping, reporting, or compliance certification requirements;

(6) The change does not violate a federally enforceable permit term or condition limiting hours of operation, work practices, fuel usage, raw material usage, or production levels if the term or condition has been established to limit emissions allowable under this permit;

(7) If applicable, the change does not modify a federally enforceable provision of a compliance plan or schedule in this Part 70 permit unless the Department has approved the change in writing; and

(8) This permit does not expressly prohibit the change under COMAR 26.11.03.18.

b. The Permittee shall notify the Department and the EPA in writing of a proposed on-permit change under COMAR 26.11.03.18 not later than 7 days before the change is made. The written information shall include the following information:

(1) A description of the proposed change;

(2) The date on which the change is proposed to be made;

(3) Any change in emissions resulting from the change, including the pollutants emitted;

(4) Any new applicable requirement of the Clean Air Act; and

(5) Any permit term or condition that would no longer apply.

c. The responsible official of this facility shall certify in accordance with COMAR 26.11.02.02F that the proposed change meets the criteria for the use of on-permit changes under COMAR 26.11.03.18.

d. The Permittee shall attach a copy of each notice required by condition b. above to this Part 70 permit.

e. On-permit changes that qualify under COMAR 26.11.03.18 are not subject to the requirements for part 70 permit revisions.

f. Upon satisfying the requirements under COMAR 26.11.03.18, the Permittee may make the proposed change.

g. The permit shield in COMAR 26.11.03.23 does not apply to on-permit changes under COMAR 26.11.03.18.

h. The Permittee is subject to enforcement action if it is determined that an on-permit change made under COMAR 26.11.03.18 is not within the scope of the regulation or violates any requirement of the State air pollution control law.

17. FEE PAYMENT

[COMAR 26.11.02.16A(2) & (5)(b)]

a. The fee for this Part 70 permit is as prescribed in Regulation .19 of COMAR 26.11.02.

b. The fee is due on and shall be paid on or before each 12-month anniversary date of the permit.

c. Failure to pay the annual permit fee constitutes cause for revocation of the permit by the Department.

18. REQUIREMENTS FOR PERMITS-TO-CONSTRUCT AND APPROVALS

[COMAR 26.11.02.09.]

The Permittee may not construct or modify or cause to be constructed or modified any of the following sources without first obtaining, and having in current effect, the specified permits-to-construct and approvals:

a. New Source Review source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;

b. Prevention of Significant Deterioration source, as defined in COMAR 26.11.01.01, approval required, except for generating stations constructed by electric companies;

c. New Source Performance Standard source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;

d. National Emission Standards for Hazardous Air Pollutants source, as defined in COMAR 26.11.01.01, permit to construct required, except for generating stations constructed by electric companies;

e. A stationary source of lead that discharges one ton per year or more of lead or lead compounds measured as elemental lead, permit to construct required, except for generating stations constructed by electric companies;

f. All stationary sources of air pollution, including installations and air pollution control equipment, except as listed in COMAR 26.11.02.10, permit to construct required;

g. In the event of a conflict between the applicability of (a.— e.) above and an exemption listed in COMAR 26.11.02.10, the provision that requires a permit applies.

h. Approval of a PSD or NSR source by the Department does not relieve the Permittee obtaining an approval from also obtaining all permits-to-construct required by (c.— g.) above.

19. CONSOLIDATION OF PROCEDURES FOR PUBLIC PARTICIPATION

[COMAR 26.11.02.11C] and [COMAR 26.11.03.01K]

The Permittee may request the Department to authorize special procedures for the Permittee to apply simultaneously, to the extent possible, for a permit to construct and a revision to this permit.

These procedures may provide for combined public notices, informational meetings, and public hearings for both permits but shall not adversely affect the rights of a person, including EPA and affected states, to obtain information about the application for a permit, to comment on an application, or to challenge a permit that is issued.

These procedures shall not alter any existing permit procedures or time frames.

20. PROPERTY RIGHTS

[COMAR 26.11.03.06E(4)]

This Part 70 permit does not convey any property rights of any sort, or any exclusive privileges.

21. SEVERABILITY

[COMAR 26.11.03.06A(5)]

If any portion of this Part 70 permit is challenged, or any term or condition deemed unenforceable, the remainder of the requirements of the permit continues to be valid.

22. INSPECTION AND ENTRY

[COMAR 26.11.03.06G(3)]

The Permittee shall allow employees and authorized representatives of the Department, the EPA, and local environmental health agencies, upon presentation of credentials or other documents as may be required by law, to:

a. Enter at a reasonable time without delay and without prior notification the Permittee's property where a Part 70 source is located, emissions-related activity is conducted, or records required by this permit are kept;

b. Have access to and make copies of records required by the permit;

c. Inspect all emissions units within the facility subject to the permit and all related monitoring systems, air pollution control equipment, and practices or operations regulated or required by the permit; and

d. Sample or monitor any substances or parameters at or related to the emissions units at the facility for the purpose of determining compliance with the permit.

23. DUTY TO PROVIDE INFORMATION

[COMAR 26.11.03.06E(5)]

The Permittee shall furnish to the Department, within a reasonable time specified by the Department, information requested in writing by the Department in order to determine whether the Permittee is in compliance with the federally enforceable conditions of this Part 70 permit, or whether cause exists for revising or revoking the permit. Upon request, the Permittee shall also furnish to the Department records required to be kept under the permit.

For information claimed by the Permittee to be confidential and therefore potentially not discloseable to the public, the Department may require the Permittee to provide a copy of the records directly to the EPA along with a claim of confidentiality.

The Permittee shall also furnish to the Department, within a reasonable time specified by the Department, information or records requested in writing by the Department in order to determine if the Permittee is in compliance with the State-only enforceable conditions of this permit.

24. COMPLIANCE REQUIREMENTS

[COMAR 26.11.03.06E(1)] and [COMAR 26.11.03.06A(11)] and [COMAR 26.11.02.05]

The Permittee shall comply with the conditions of this Part 70 permit. Noncompliance with the permit constitutes a violation of the Clean Air Act, and/or the Environment Article Title 2 of the Annotated Code of Maryland and may subject the Permittee to:

a. Enforcement action,

b. Permit revocation or revision,

c. Denial of the renewal of a Part 70 permit, or

d. Any combination of these actions.

The conditions in this Part 70 permit are enforceable by EPA and citizens under the Clean Air Act except for the State-only enforceable conditions.

Under Environment Article Section 2-609, Annotated Code of Maryland, the Department may seek immediate injunctive relief against a person who violates this permit in such a manner as to cause a threat to human health or the environment.

25. CREDIBLE EVIDENCE

Nothing in this permit shall be interpreted to preclude the use of credible evidence to demonstrate noncompliance with any term of this permit.

26. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

[COMAR 26.11.03.06E(2)]

The need to halt or reduce activity in order to comply with the conditions of this permit may not be used as a defense in an enforcement action.

27. CIRCUMVENTION

[COMAR 26.11.01.06]

The Permittee may not install or use any article, machine, equipment or other contrivance, the use of which, without resulting in a reduction in the total weight of emissions, conceals or dilutes emissions which would otherwise constitute a violation of any applicable air pollution control regulation.

28. PERMIT SHIELD

[COMAR 26.11.03.23]

A permit shield as described in COMAR 26.11.03.23 shall apply only to terms and conditions in this Part 70 permit that have been specifically identified as covered by the permit shield. Neither this permit nor COMAR 26.11.03.23 alters the following:

a. The emergency order provisions in Section 303 of the Clean Air Act, including the authority of EPA under that section;

b. The liability of the Permittee for a violation of an applicable requirement of the Clean Air Act before or when this permit is issued or for a violation that continues after issuance;

c. The requirements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act;

d. The ability of the Department or EPA to obtain information from a source pursuant to Maryland law and Section 114 of the Clean Air Act; or

e. The authority of the Department to enforce an applicable requirement of the State air pollution control law that is not an applicable requirement of the Clean Air Act.

29. ALTERNATE OPERATING SCENARIOS

[COMAR 26.11.03.06A(9)]

For all alternate operating scenarios approved by the Department and contained within this permit, the Permittee, while changing from one approved scenario to another, shall contemporaneously record in a log maintained at the facility each scenario under which the emissions unit is operating and the date and time the scenario started and ended.

SECTION III PLANT WIDE CONDITIONS

1. PARTICULATE MATTER FROM CONSTRUCTION AND DEMOLITION

[COMAR 26.11.06.03D]

The Permittee shall not cause or permit any building, its appurtenances, or a road to be used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne.

2. OPEN BURNING

[COMAR 26.11.07]

Except as provided in COMAR 26.11.07.04, the Permittee shall not cause or permit an open fire from June 1 through August 31 of any calendar year. Prior to any open burning, the Permittee shall request and receive approval from the Department.

3. AIR POLLUTION EPISODE

[COMAR 26.11.05.04]

When requested by the Department, the Permittee shall prepare in writing standby emissions reduction plans, consistent with good industrial practice and safe operating procedures, for reducing emissions creating air pollution during periods of Alert, Warning, and Emergency of an air pollution episode.

4. REPORT OF EXCESS EMISSIONS AND DEVIATIONS

[COMAR 26.11.01.07] and [COMAR 26.11.03.06C(7)]

The Permittee shall comply with the following conditions for occurrences of excess emissions and deviations from requirements of this permit, including those in Section VI – State-only Enforceable Conditions:

a. Report any deviation from permit requirements that could endanger human health or the environment, by orally notifying the Department immediately upon discovery of the deviation;

b. Promptly report all occurrences of excess emissions that are expected to last for one hour or longer by orally notifying the Department of the onset and termination of the occurrence;

c. When requested by the Department the Permittee shall report all deviations from permit conditions, including those attributed to malfunctions as defined in COMAR 26.11.01.07A, within 5 days of the request by submitting a written description of the deviation to the Department. The written report shall include the cause, dates and times of the onset and termination of the deviation, and an account of all actions planned or taken to reduce, eliminate, and prevent recurrence of the deviation;

d. The Permittee shall submit to the Department semi-annual monitoring reports that confirm that all required monitoring was performed, and that provide accounts of all deviations from permit requirements that occurred during the reporting periods. Reporting periods shall be January 1 through June 30 and July 1 through December 31, and reports shall be submitted within 30 days of the end of each reporting period. Each account of deviation shall include a description of the deviation, the dates and times of onset and termination, identification of the person who observed or discovered the deviation, causes and corrective actions taken, and actions taken to prevent recurrence. If no deviations from permit conditions occurred during a reporting period, the Permittee shall submit a written report that so states.

e. When requested by the Department, the Permittee shall submit a written report to the Department within 10 days of receiving the request concerning an occurrence of excess emissions. The report shall contain the information required in COMAR 26.11.01.07D(2).

5. ACCIDENTAL RELEASE PROVISIONS

[COMAR 26.11.03.03B(23)] and [40 CFR 68]

The Permittee shall submit risk management plans by the date specified in 40 CFR 68.150.

The Permittee shall certify compliance with the requirements of 40 CFR 68 as part of the annual compliance certification as required by 40 CFR 70.

6. GENERAL TESTING REQUIREMENTS

[COMAR 26.11.01.04]

The Department may require the Permittee to conduct, or have conducted, testing to determine compliance with this Part 70 permit. The Department, at its option, may witness or conduct these tests. This testing shall be done at a reasonable time, and all information gathered during a testing operation shall be provided to the Department.

7. EMISSIONS TEST METHODS

[COMAR 26.11.01.04]

Compliance with the emissions standards and limitations in this Part 70 permit shall be determined by the test methods designated and described below or other test methods submitted to and approved by the Department.

Reference documents of the test methods approved by the Department include the following:

a. 40 CFR 60, appendix A

b. 40 CFR 51, appendix M

c. The Department's Technical Memorandum 91-01 "Test Methods and Equipment Specifications for Stationary Sources", (January 1991), as amended through Supplement 3, (October 1, 1997)

8. EMISSIONS CERTIFICATION REPORT

[COMAR 26.11.01.05-1] and [COMAR 26.11.02.19C] and [COMAR 26.11.02.19D]

The Permittee shall certify actual annual emissions of regulated pollutants from the facility on a calendar year basis.

a. The certification shall be on forms obtained from the Department and submitted to the Department not later than April 1 of the year following the year for which the certification is required;

b. The individual making the certification shall certify that the information is accurate to the individual's best knowledge. The individual shall be:

(1) Familiar with each source for which the certifications forms are submitted, and

(2) Responsible for the accuracy of the emissions information;

c. The Permittee shall maintain records necessary to support the emissions certification including the following information if applicable:

(1) The total amount of actual emissions of each regulated pollutant and the total of all regulated pollutants;

(2) An explanation of the methods used to quantify the emissions and the operating schedules and production data that were used to determine emissions, including significant assumptions made;

(3) Amounts, types and analyses of all fuels used;

(4) Emissions data from continuous emissions monitors that are required by this permit, including monitor calibration and malfunction information;

(5) Identification, description, and use records of all air pollution control equipment and compliance monitoring equipment including:

(a) Significant maintenance performed,
(b) Malfunctions and downtime, and
(c) Episodes of reduced efficiency of all equipment;

(6) Limitations on source operation or any work practice standards that significantly affect emissions; and

(7) Other relevant information as required by the Department.

9. COMPLIANCE CERTIFICATION REPORT

[COMAR 26.11.03.06G(6) and (7)]

The Permittee shall submit to the Department and EPA Region III a report certifying compliance with each term of this Part 70 permit including each applicable standard, emissions limitation, and work practice for the previous calendar year by April 1 of each year.

a. The compliance certification shall include:

(1) The identification of each term or condition of this permit which is the basis of the certification;

(2) The compliance status;

(3) Whether the compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of each source, currently and over the reporting period; and

(5) Any other information required to be reported to the Department that is necessary to determine the compliance status of the Permittee with this permit.

b. The Permittee shall submit the compliance certification reports to the Department and EPA simultaneously.

10. CERTIFICATION BY RESPONSIBLE OFFICIAL

[COMAR 26.11.02.02F]

All application forms, reports, and compliance certifications submitted pursuant to this permit shall be certified by a responsible official as to truth, accuracy, and completeness. The Permittee shall expeditiously notify the Department of an appointment of a new responsible official.

The certification shall be in the following form:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

11. SAMPLING AND EMISSIONS TESTING RECORD KEEPING

[COMAR 26.11.03.06C(5)]

The Permittee shall gather and retain the following information when sampling and testing for compliance demonstrations:

a. The location as specified in this permit, and the date and time that samples and measurements are taken;

b. All pertinent operating conditions existing at the time that samples and measurements are taken;

c. The date that each analysis of a sample or emissions test is performed and the name of the person taking the sample or performing the emissions test;

d. The identity of the Permittee, individual, or other entity that performed the analysis;

e. The analytical techniques and methods used; and

f. The results of each analysis.

12. GENERAL RECORDKEEPING

[COMAR 26.11.03.06C(6)]

The Permittee shall retain records of all monitoring data and information that support the compliance certification for a period of five (5) years from the date that the monitoring, sample measurement, application, report or emissions test was completed or submitted to the Department.

These records and support information shall include:

a. All calibration and maintenance records;

b. All original data collected from continuous monitoring instrumentation;

c. Records which support the annual emissions certification; and

d. Copies of all reports required by this permit.

13. GENERAL CONFORMITY

[COMAR 26.11.26.09]

The Permittee shall comply with the general conformity requirements of 40 CFR 93, Subpart B and COMAR 26.11.26.09.

14. ASBESTOS PROVISIONS

[40 CFR 61, Subpart M]

The Permittee shall comply with 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

15. OZONE DEPLETING REGULATIONS

[40 CFR 82, Subpart F]

The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the prohibitions and required practices pursuant to 40 CFR 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair or disposal of appliances shall comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

c. Persons performing maintenance, service, repairs or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.

d. Persons disposing of small appliances, MVACS, and MVAC-like appliances as defined in 40 CFR 82.152, shall comply with record keeping requirements pursuant to 40 CFR 82.155.

e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

16. ACID RAIN PERMIT

Not applicable

SECTION IV PLANT SPECIFIC CONDITIONS

This section provides tables that include the emissions standards, emissions limitations, and work practices applicable to each emissions unit located at this facility. The Permittee shall comply with all applicable emissions standards, emissions limitations and work practices included herein.

The tables also include testing, monitoring, record keeping and reporting requirements specific to each emissions unit. In addition to the requirements included here in **Section IV**, the Permittee is also subject to the general testing, monitoring, record keeping and reporting requirements included in **Section III – Plant Wide Conditions** of this permit.

Unless otherwise provided in the specific requirements for an emissions unit, the Permittee shall maintain at the facility for at least five (5) years and shall make available to the Department upon request all records that the Permittee is required under this section to establish. **[Reference: COMAR 26.11.03.06C(5)(g)]**

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Table	Equipment	Description
Table IV-1	94 Boilers – see list at the end of Table IV-1	Space Heating Boilers < 10 MMBtu/hr. used as space heaters
Table IV-2	7 Boilers – see list at the end of Table IV-2	Process Boilers
Table IV-3	8 Boilers – see list at the end of Table IV-3	NSPS Boilers
Table IV-4	Site maintains list of boilers subject to JJJJJJ	#2 Fuel oil-fired boilers and dual fired boilers – subject to 40 CFR Part 63, Subpart JJJJJJ.
Table IV-5	41 Generators/Engines – see list at the end of Table IV-5	Emergency and Non-Emergency Generators
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Table IV-5b	17 MACT Generators/Engines – See list at the end of Table IV-5b.	Generators/Engines subject to NESHAP Subpart ZZZZ
Table IV-6	07-0525-A04 & A06	Paint Spry Booth Cross Draft Auto and equipment refinishing booth

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Table	**Equipment**	**Description**
Table IV-7	26-4029-A03 & A05	Underground storage tanks
Table IV-8	Facility-wide	VOC emissions facility wide

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1.0	**Emissions Unit Number(s): Space Heating Boilers** See Table Below: Boilers less than 10 million Btu per hour heat input and used as space heaters.
1.1	**Applicable Standards/Limits:** A. Control of Visible Emissions **COMAR 26.11.09.05A** – Fuel Burning Equipment "(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity. (3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty-minute period." **Condition B applies to No. 2 oil-fired boilers only** B. Control of Sulfur Oxide Emissions **COMAR 26.11.09.07A(2)** - Sulfur Content Limitations for Fuel. "A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (b) Distillate fuel oils, 0.3 percent." C. Control of Nitrogen Oxide Emissions **COMAR 26.11.09.08B(5)** - Operator Training.

Table IV – 1	
	(a) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation. (b) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department." **COMAR 26.11.09.08F** - Requirements for Space Heaters. "(1) A person who owns or operates a space heater as defined in Regulation .01B of this chapter shall: (a) Submit to the Department a list of each affected installation on the premises and the types of fuel used in each installation; (b) Develop an operating and maintenance plan to minimize NO_x emissions based on the recommendations of equipment vendors and other information including the source's operating and maintenance experience; (c) Implement the operating and maintenance plan and maintain the plan at the premises for review upon request by the Department; (d) Require installation operators to attend in-State operator training programs once every 3 years on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and (e) Prepare and maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request. (2) A person who owns or operates an installation that no longer qualifies as a space heater shall inform the Department not later than 60 days after the date when the fuel-burning equipment did not qualify and shall meet the applicable fuel-burning equipment RACT requirement in this regulation." D. Operational Limits **[Reference: MDE Reg. No. 025-0081-5-0298 thru 5-0301 issued October 2009)** (1) The boilers equipped with low NO_x burners not to exceed 30ppm shall only burn natural gas or No.2 fuel oil. (2) The boilers shall not burn any No.2 fuel oil with sulfur content greater than 0.3% by weight. (3) For the purpose of maintaining synthetic minor status for the C4ISR-Research and Development Facility, the combined NO_x emissions from the all fuel burning equipment (boilers and generators) at the facility must be less than 25 tons in any rolling 12-month period. (4) The total fuel oil and natural gas usage for the fifteen (15) boilers shall not exceed the following limits unless the Permittee can demonstrate, to the

Table IV – 1

satisfaction of the Department, that the NO_x emissions for the C4ISR-Research and Development Facility are less than 25 tons in any rolling 12-month period at a higher usage rate:

MDE PTC No.	Location	Proposed Limit		Quantity and Size
		Natural gas (ft^3/yr)	No. 2 fuel oil (gallons)	
5-0298	C2CNT West Building	82,355,000	160,000	Four (4) 3.5 MMBtu/hr. boilers
5-0299	GMS Tower Building	61,765,000	120,000	Three (3) 3.5 MMBtu/hr. boilers
5-0300	HQ Building 1	102,942,000	200,000	Five (5) 3.5 MMBtu/hr. boilers
5-0301	GMS Lab Building	61,765,000	120,000	Three (3) 3.5 MMBtu/hr. boilers

1.2 **Testing Requirements:**

A. Control of Visible Emissions
See Monitoring Requirements.

B. Control of Sulfur Oxide Emissions
See Monitoring Requirements.

C. Control of Nitrogen Oxides Emissions
See Monitoring Requirements.

D. Operational Limits
See Monitoring Requirements.

1.3 **Monitoring Requirements:**

A. Control of Visible Emissions
The Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions, in accordance with the operation and maintenance manual. **[Reference:** COMAR **26.11.03.06C]**

B. Control of Sulfur Oxide Emissions
The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitations on the sulfur content in fuel oil. **[Reference: COMAR 26.11.03.06C].**

Table IV – 1	
	C. Control of Nitrogen Oxide Emissions The Permittee shall develop and maintain an operating and maintenance plan to minimize NOx emissions. **[Reference: COMAR 26.11.09.08F(1)(b)]**. D. Operational Limits The Permittee shall calculate the NOx emissions for the previous calendar month and a total for the previous 12 consecutive months for the C4ISR-R&D facility. The calculations shall be updated monthly within 30 days of each following month. **(Reference: MDE Reg. No. 025-0081-5-0298 thru 5-0301 issued July 16, 2009, Part E, Condition 2)**
1.4	**Record Keeping Requirements:** **NOTE: All** records must be maintained for a period of 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]** A. Control Visible Emissions The Permittee shall maintain operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. [**Reference: COMAR 26.11.03.06C**]. B. Control of Sulfur Oxide Emissions The Permittee shall retain fuel supplier certifications stating that the fuel oil is in compliance with this regulation. [**Reference: COMAR 26.11.09.07C**]. C. Control of Nitrogen Oxide Emissions The Permittee shall maintain: 1) Records of maintenance performed that relates to combustion performance in keeping with the requirements of an operations and maintenance plan. **[Reference: COMAR 26.11.09.08F(1)(c)]**. 2) Record of training program attendance for each operator. **[Reference: COMAR 26.11.09.08F(1)(e)]**. 3) An operations manual and preventive maintenance plan. **[Reference: COMAR 26.11.09.08F(1)(b)]**. 4) Records of fuel use that demonstrate that the boiler meets the definition of a space heater. **[Reference: COMAR 26.11.09.08K(3) and COMAR 26.11.03.06C]**. D. Operational Limits The Permittee shall maintain on site and make available to the Department upon request, records of the monthly and rolling 12-month total natural gas in million cubic feet and the No. 2 fuel oil usage in gallons. **(Reference: MDE**

Table IV – 1	
	Reg. No. 025-0081-5-0298 thru 5-0301 issued July 16, 2009, Part E, Condition 1) The Permittee shall keep records of the NOx emissions for each calendar month and update them monthly with 30 days of each following month. **(Reference: MDE Reg. No. 025-0081-5-0298 thru 5-0301 issued July 16, 2009, Part E, Condition 2)**
1.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations". B. Control of Sulfur Oxide Emissions The Permittee shall report fuel supplier certifications to the Department upon request. **[Reference: COMAR 26.11.09.07C]** C. Control of Nitrogen Oxide Emissions The Permittee shall submit: a record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08F(1)(e)]** D. Operational Limits The Permittee shall report fuel consumption to the Department upon request. The Permittee shall submit the records to the Department as part of the semi-annual report. **(Reference: COMAR 26.11.03.06C)**

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0030-A01 & 0030-A02	4-0619	Two (2) No. 2 fuel oil fired boilers each rated at 2.1 million Btu per hour heat input	2012
0045-A01		One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input	2013
0269C-A01		One (1) No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2016
0280B-A01		One (1) No. 2 fuel oil fired boiler rated at 1.458 million Btu per hour heat input	2016

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0322-A01		One (1) No. 2 fuel oil fired boiler rated at 2.07 million Btu per hour heat input	2013
0384-A01		One (1) No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2016
0402-A03		One (1) No. 2 fuel oil fired boiler rated at 3.200 million Btu per hour heat input	1985
0439-A01		One (1) No. 2 fuel oil fired boiler rated at 1.054 million Btu per hour heat input	
0456-A01		One (1) No. 2 fuel oil fired boiler rated 1.400 million Btu per hour heat input	2004
26-0699A-A01		One (1) No. 2 fuel oil fired boiler rated at 4.2 million Btu per hour heat input	2016
26-0700-A01		One (1) No. 2 fuel oil fired boiler rated at 3.347 million Btu per hour heat input	1987
26-0702-A01		One (1) No. 2 fuel oil fired boiler rated at 1.25 million Btu per hour heat input.	2002
0733A-A01		One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input.	2013
0740B-A01		One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input.	2006
0740C-A01		One (1) No. 2 fuel oil fired boiler rated at 1.987 million Btu per hour heat input.	2010
26-0860-A01	4-0619	One (1) No. 2 fuel oil fired boiler rated at 1.289 million Btu per hour heat input	2003
26-1064-A01		One (1) No. 2 fuel oil fired boiler rated at 3.36 million Btu per hour heat input	2009
26-1064-A02		One (1) No. 2 fuel oil fired boiler rated at 3.36 million Btu per hour heat input	2009
26-1100F-A01		One (1) No. 2 fuel oil fired boiler rated at 1.987 million Btu per hour heat input	1996
1134-A01		One (1) No. 2 fuel oil fired boiler rated at 1.340 million Btu per hour heat input.	2013
26-2184-A01		One (1) No. 2 fuel oil fired boiler rated at 1.116 million Btu per hour heat input	1983
26-2207-A03		One (1) No. 2 fuel oil fired boiler rated at 2.37 million Btu per hour heat input	1999
0383A-A01 & A02	5-0376	Two (2) Cleaver Brooks natural gas fired boilers each rated at 3.347 million Btu per hour hear input	2017
26-2312-A02	4-0619	One (1) No. 2 fuel oil fired boiler rated at 2.10 million Btu per hour heat input	2009
26-2377-A01		One (1) No. 2 fuel oil fired boiler rated at 2.37 million Btu per hour heat input	1987
26-2377-A02		One (1) No. 2 fuel oil fired boiler rated at 1.26 million Btu per hour heat input	2009
3070-A01		One (1) No. 2 fuel oil fired boiler rated at 8.165 million Btu per hour heat input	2004

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-3011-A01		One (1) No. 2 fuel oil fired boiler rated at 1.110 million Btu per hour heat input	2005
26-4725-A01		One (1) No. 2 fuel oil fired boiler rated at 1.281 million Btu per hour heat input	
26-4728-A02		One (1) natural gas/No. 2 fuel oil fired boiler rated at 2.7 million Btu per hour heat input	2016
26-2485-A01	5-0367	One (1) natural gas-fired boiler rated at 2.00 million Btu per hour heat input	2017
26-5046-A01 thru A03	5-0377	Three (3) natural gas-fired boilers rated at 1.50 million Btu per hour heat input	2018
0445-A01	4-0707	One (1) No. 2 fuel oil fired boiler rated at 1.116 million Btu per hour heat input	2013
0394-A01	4-0708	One (1) No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2010
0339-A01	4-0710	One (1) No. 2 fuel oil fired boiler rated at 2.06 million Btu per hour heat input	2009
0507-A05	4-0717	One (1) No. 2 fuel oil fired boiler rated at 6.70 million Btu per hour heat input	2016
0507-A04	4-0104	One (1) No. 2 fuel oil fired boiler rated at 8.164 million Btu per hour heat input	1997
0642-A01	4-0689	One (1) No. 2 fuel oil fired boiler rated at 1.900 million Btu per hour heat input	2009
0643-A01	4-0721	One (1) No. 2 fuel oil fired boiler rated at 1.143 million Btu per hour heat input	2016
0644-A01	4-0619	One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input	2006
0688-A01	4-0720	One (1) No. 2 fuel oil fired boiler rated at 1.73 million Btu per hour heat input	2016
0670-A01	4-0719	One (1) No. 2 fuel oil fired boiler rated at 2.088 million Btu per hour heat input	2016
5116-A01	4-0619	One (1) No. 2 fuel oil fired boiler rated at 1.680 million Btu per hour heat input	2011
26-0120-A01 & A02	5-0152	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 2.51 million Btu per hour heat input	2008
26-0402-A01 & A02	5-0152	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 3.27 million Btu per hour heat input	1996
26-0436-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 2.5 million Btu per hour heat input	2016
26-0436 A02	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 2.200 million Btu per hour heat input	1995
26-0449-A01	4-0722	One (1) No. 2 fuel oil fired boiler rated at 2.088 million Btu per hour heat input	2016
26-0455-A01 & A02	5-0152	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 8.37 million Btu per hour heat input	1990
26-0459-A02	5-0337	One (1) natural gas fired boiler rated at 2.10 million Btu per hour heat input	2011

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-0525-A01 & A03	5-0335 & 5-0334	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 8.37 million Btu per hour heat input	1985
26-0525-A02	5-0315	One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.17 million Btu per hour heat input	2010
26-2312-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 5.100 million Btu per hour heat input and equipped with low NO_X burners.	1996
26-2352-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.28 million Btu per hour heat input	1998
906C-A01	4-0724	One (1) Weil-McLain fuel oil fired boiler rated at 1.23 million Btu per hour heat input	2018
26-3062-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.12 million Btu per hour heat input	2011
26-4304-A02	5-0152	One (1) natural gas-fired boiler rated at 3.0 million Btu per hour heat input	2015
26-4727-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 4.0 million Btu per hour heat input	2016
26-5014-A03	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 7.500 million Btu per hour heat input	1991
26-6007-C2CNT West-A01 through A04	5-0298	Four (4) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input	2009
26-6006-GMS Tower-A01 thru A03	5-0299	Three (3) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input and equipped with low NO_X burners	2009
26-6002-HQ Building-A01 thru A05	5-0300	Five (5) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input	2009
26-6003-GMS Lab-A01 thru A03	5-0301	Three (3) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input	2009
2202-A01 & 2202-A02	5-0322	Two (2) natural gas fired boilers each rated at 2.000 million Btu per hour heat input	2010
3144-A01	5-0152	One (1) natural gas fired boiler rated at 4.81 million Btu per hour heat input	2012
26-3660-A01	5-0371	One (1) natural gas fired boiler rated at 2.50 million Btu per hour heat input	2016
26-4119-A02	5-0152	One (1) Cleaver Brooks dual-fired boiler rated at 8.165 million Btu per hour heat input	1994
26-04119-A03	5-0336	One (1) natural gas fired boiler rated at 8.17 million Btu per hour heat input	2014
5100-A01 & 5100-A02	5-0309 & 5-0310	Two (2) natural gas fired boilers each rated at 3.000 million Btu per hour heat input	2010
26-367-A01	5-0352	Camus DR-1000 Propane fired boiler (Bldg. 367-ARL/AMSSA Compound) General Permit issued May 6, 2014	2014

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-0400-A02 & A03	5-0384	Two (2) natural gas fired boilers each rated at 1.69 million Btu per hour heat input	2020

Table IV – 2	
2.0	**Emissions Unit Number(s) – Process Boilers** See Process Boilers Table Below
2.1	**Applicable Standards/Limits:** A. Control of Visible Emissions **COMAR 26.11.09.05A** – Fuel Burning Equipment "(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity. (3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period." B. Control of Sulfur Oxide Emissions **COMAR 26.11.09.07A(2)** - Sulfur Content Limitations for Fuel. "A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (b) Distillate fuel oils, 0.3 percent." C. Control of Nitrogen Oxide Emissions **COMAR 26.11.09.08B(5)** - Operator Training. (a) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation.

Table IV – 2	
	(b) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department." **COMAR 26.11.09.08E.** - Requirements for Fuel-Burning Equipment with a Rated Heat Input Capacity of 100 Million Btu Per Hour or Less. "A person who owns or operates fuel-burning equipment with a rated heat input capacity of 100 Million Btu per hour or less shall: (1) Submit to the Department an identification of each affected installation, the rated heat input capacity of each installation, and the type of fuel burned in each; (2) Perform a combustion analysis for each installation at least once each year and optimize combustion based on the analysis; (3) Maintain the results of the combustion analysis at the site for at least 2 years and make this data available to the Department and the EPA upon request; (4) Once every 3 years, require each operator of the installation to attend operator training programs on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and (5) Prepare and maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request."
2.2	**Testing Requirements:** A. Control of Visible Emissions See Monitoring Requirements. B. Control of Sulfur Oxide Emissions See Monitoring Requirements C. Control of Nitrogen Oxide Emissions The Permittee shall perform a combustion analysis once a year. **[Reference: COMAR 26.11.09.08E(2)]**
2.3	**Monitoring Requirements:** A. Control of Visible Emissions The Permittee shall: (1) Properly operate and maintain the boilers in a manner to prevent visible emissions; and (2) Verify no visible emissions when burning No. 2 fuel oil. The Permittee shall perform a visual observation for a 6-minute period once for each 168 hours that the boiler burns oil or at a minimum of once per year.

Table IV – 2	
	The Permittee shall perform the following, if emissions are visible: (1) Inspect combustion control system and boiler operations, (2) Perform all necessary adjustments and/or repairs to the boiler within 48 hours, so that visible emissions are eliminated; (3) Document in writing the results of the inspections, adjustments and/or repairs to the boiler; and (4) After 48 hours, if the required adjustments and/or repairs had not eliminated the visible emissions, perform Method 9 observations once daily for 18 minutes until corrective actions have eliminated the visible emissions. **[Reference: COMAR 26.11.03.06C]**. B. Control of Sulfur Oxide Emissions The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of the fuel oil. **[Reference: COMAR 26.11.03.06C]**. C. Control of Nitrogen Oxide Emissions The Permittee shall optimize combustion based on the annual combustion analysis. **[Reference: COMAR 26.11.09.08E(2)]**
2.4	**Record Keeping Requirements:** **NOTE:** All records must be maintained for a period of 5 years. **[Reference: COMAR 26.11.03.06.C(5)(g)].** A. Control of Visible Emissions The Permittee shall: (1) Maintain an operation manual and prevention maintenance plan on site; (2) Maintain a record of the maintenance preformed that relates to combustion performance; (3) Maintain a log of visible emissions observations performed and make it available to the Department's representative upon request; (4) Maintain a record of the hours that No. 2 fuel oil is burned. **[Reference: COMAR 26.11.03.06C]**. B. Control of Sulfur Oxide Emissions The Permittee shall maintain records of fuel supplier's certification and shall make records available to the Department upon request. **[Reference: COMAR 26.11.03.06C]**. C. Control of Nitrogen Oxide Emissions

Table IV – 2	
	The Permittee shall maintain: (1) Records of the results of the annual combustion analysis on site. **[Reference: COMAR 26.11.09.08E(5)].** (2) Record of combustion optimization training program attendance for each operator at the site for at least five years and make available to the Department upon request **[Reference: COMAR 26.11.09.08E(5)]**.
2.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations". B. Control of Sulfur Oxide Emissions The Permittee shall report fuel supplier certification to the Department upon request **[Reference: COMAR 26.11.09.07C]**. C. Control of Nitrogen Oxide Emissions The Permittee shall submit: (1) The results of combustion analysis to the department and the EPA upon request. **[Reference: COMAR 26.11.09.08E(3)]** (2) A record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08E(5)].**

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

PROCESS BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-03062-A02	5-0167	One (1) natural gas/No. 2 fuel oil fired boiler rated at 12.2 million Btu per hour heat input	2009
26-4219-A02	4-0522N	One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.37 million Btu per hour heat input	1994
26-4219-A03	5-0308	One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.165 million Btu per hour heat input	2009
26-04312-A01 & A02	5-0364	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 4.18 million Btu per hour heat input	2015
26-04404-A04	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.695 million Btu per hour heat input	1999
4404-A06		One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.165million Btu per hour heat input	2012

Table IV – 3	
3.0	**Emissions Unit Number(s) – NSPS Boilers** See NSPS Boilers Table Below
3.1	**Applicable Standards/Limits:** A. Control of Visible Emissions **COMAR 26.11.09.05A** – Fuel Burning Equipment "(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity. (3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if: (a) The visible emissions are not greater than 40 percent opacity; and (b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period." The Federal New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units with a heat input capacity less than 100 million Btu/hour but greater than 10 million Btu/hour for which construction began after June 9, 1989, **40 CFR 60, Subpart Dc**, which contains the following: **§60.43c** – "(**c**) On and after the date on which the initial performance test is completed or required to be completed under Sec. 60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 million Btu/hr.) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. (**d**) The PM and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction." *Note: Compliance with the "No Visible Emissions" requirement of COMAR 26.11.09.05A(2) will be used to show compliance with this NSPS standard.*

Table IV – 3

B. Control of Sulfur Oxide Emissions

COMAR 26.11.09.07A(2) - Sulfur Content Limitations for Fuel.

"A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (b) Distillate fuel oils, 0.3 percent."

The Federal New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units with a heat input capacity less than 100 million Btu/hour but greater than 10 million Btu/hour for which construction began after June 9, 1989, ***40 CFR 60, Subpart Dc****, which contains the following:*

§60.42c – Standard for sulfur dioxide

"**(d)** On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2 in excess of 215 ng/J (0.50 lb./million Btu) heat input; or an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater that 0.5 percent weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph."

"**(h)** For affected facilities listed under paragraphs (h)(1), (2), or (3) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f), as applicable.

(1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr.)."

"**(i)** The SO_2 emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction."

Note: The monitoring, record keeping, and reporting requirements under NSPS Subpart Dc will be used to demonstrate compliance with COMAR 26.11.09.07A and the NSPS sulfur in fuel standard.

C. Control of Nitrogen Oxide Emissions

COMAR 26.11.09.08B(5) - Operator Training.

Table IV – 3	
	(1) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation. (2) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department." **COMAR 26.11.09.08E**. - Requirements for Fuel-Burning Equipment with a Rated Heat Input Capacity of 100 Million Btu Per Hour or Less. "A person who owns or operates fuel-burning equipment with a rated heat input capacity of 100 Million Btu per hour or less shall: (1) Submit to the Department an identification of each affected installation, the rated heat input capacity of each installation, and the type of fuel burned in each; (2) Perform a combustion analysis for each installation at least once each year and optimize combustion based on the analysis; (3) Maintain the results of the combustion analysis at the site for at least 2 years and make this data available to the Department and the EPA upon request; (4) Once every 3 years, require each operator of the installation to attend operator training programs on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and (5) Prepare and maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request."
3.2	**Testing Requirements:** A. Control of Visible Emissions See Monitoring Requirements. B. Control of Sulfur Oxide Emissions **§60.44c(h)** - Compliance and performance test methods and procedures for sulfur dioxide. "For affected facilities subject to §60.42c(h)(1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO_2 standards based on fuel supplier certification, the performance test shall consist of the certification, the certification from the fuel supplier, as described under §60.48c(f)(1), (2), or (3), as applicable." C. Control of Nitrogen Oxide Emissions The Permittee shall perform a combustion analysis once a year. **[Reference: COMAR 26.11.09.08E(2)]**

Table IV – 3	
3.3	**Monitoring Requirements:** A. Control of Visible Emissions The Permittee shall: (1)Properly operate and maintain the boilers in a manner to prevent visible emissions; and (2)Verify no visible emissions when burning No. 2 fuel oil. The Permittee shall perform a visual observation for a 6-minute period once for each 168 hours that the boiler burns oil or at a minimum of once per year. The Permittee shall perform the following, if emissions are visible: (1) Inspect combustion control system and boiler operations, (2) Perform all necessary adjustments and/or repairs to the boiler within 48 hours, so that visible emissions are eliminated; (3) Document in writing the results of the inspections, adjustments and/or repairs to the boiler; and (4) After 48 hours, if the required adjustments and/or repairs had not eliminated the visible emissions, perform Method 9 observations once daily for 18 minutes until corrective actions have eliminated the visible emissions. **[Reference: COMAR 26.11.03.06C]**. B. Control of Sulfur Oxide Emissions **§60.46c** – Emission monitoring for sulfur dioxide. "**(e)** The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to §60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO_2 standards based on fuel supplier certification, as described under §60.48c(f)(1), (2) or (3), as applicable." C. Control of Nitrogen Oxide Emissions The Permittee shall optimize combustion based on the annual combustion analysis. **[Reference: COMAR 26.11.09.08E(2)]**
3.4	**Record Keeping Requirements:** **NOTE:** All records must be maintained for a period of 5 years. **[Reference: COMAR 26.11.03.06.C (5)(g)].** A. Control of Visible Emissions The Permittee shall: (1) Maintain an operation manual and prevention maintenance plan on site;

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	(2) Maintain a record of the maintenance preformed that relates to combustion performance; (3) Maintain a log of visible emissions observations performed and make it available to the Department's representative upon request; (4) Maintain a record of the hours that No. 2 fuel oil is burned. **[Reference: COMAR 26.11.03.06C]**. B. Control of Sulfur Oxide Emissions **§60.48c** – Reporting and record keeping requirements. "(**a**) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include: (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility. (2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c. (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired." "(**c**) The owner or operator of each coal-fired, **oil-fired**, or wood-fired affected facility subject to the opacity limits under §60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period." "(**e**)(11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2) or (3) of this section as applicable. In addition to records of fuel supplier certifications, **the report** shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period." "(**f**) Fuel supplier certification shall include the following information: (1) For distillate oil: (i) The name of the oil supplier; and (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c." "(**g**)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and

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	maintain records of the amount of each fuel combusted during each operating day. (2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO_2 standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month. (3) As an alternative to meeting the requirements of paragraph (g)(1) of this Sec. ion, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in Sec. 60.42C to use fuel certification to demonstrate compliance with the SO2 standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month." "(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record." C. Control of Nitrogen Oxide Emissions The Permittee shall maintain: (1) Records of the results of the annual combustion analysis on site. **[Reference: COMAR 26.11.09.08E(5)]**. (2) Record of training program attendance for each operator at the site. **[Reference: COMAR 26.11.09.08E(5)]**.
3.5	**Reporting Requirements**: A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations". B. Control of Sulfur Oxide Emissions **§60.48c** – Reporting and record keeping requirements.

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	"(j) The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period." The Permittee shall report fuel supplier certification to the Department upon request **[Reference: COMAR 26.11.09.07C]**. C. Control of Nitrogen Oxide Emissions The Permittee shall submit: (1)The results of combustion analysis to the department and the EPA upon request. **[Reference: COMAR 26.11.09.08E(3)]** (2)A record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08E(5)].**

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

NSPS Process BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-0345-A01 & A02	5-0079 & 5-0080	Two (2) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers each rated at 63.80 million Btu per hour heat input	1994
26-0345-A03	5-0081	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 23.4 million Btu per hour heat input	1996
26-4600-A06	5-0085	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 21.0 million Btu per hour heat input	1995
26-4600-A09	5-0370	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 20.13 million Btu per hour heat input	2016
26-4600- A08	5-0087	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 21.0 million Btu per hour heat input	1995
26-5014-A01 & A02	5-0164 & 5-0165	Two (2) H.B. Smith natural gas/No. 2 fuel oil fired boilers each rated at 13.50 million Btu per hour heat input	1991

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4.0	**Emissions Unit Number(s): Boilers Cont'd** All Oil-fired boilers: Space heaters, Process boilers & NSPS boilers.
4.1	**Applicable Standards/Limits:** Control of HAPs: **40 CFR Part 63, Subpart JJJJJJ—National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources** **§63.11193** - Am I subject to this subpart? You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195. **§63.11194** - What is the affected source of this subpart? "(a) This subpart applies to each new, reconstructed, or existing affected source as defined in paragraphs (a)(1) and (2) of this section. (1) The affected source of this subpart is the collection of all existing industrial, commercial, and institutional boilers within a subcategory, as listed in §63.11200 and defined in §63.11237, located at an area source. (2) The affected source of this subpart is each new or reconstructed industrial, commercial, or institutional boiler within a subcategory, as listed in §63.11200 and as defined in §63.11237, located at an area source. (b) An affected source is **an existing source** if you commenced construction or reconstruction of the affected source **on or before June 4, 2010**. (c) An affected source is **a new source** if you commenced construction of the affected source **after June 4, 2010**, and the boiler meets the applicability criteria at the time you commence construction." **§63.11196** - What are my compliance dates? (a) If you own or operate an existing affected boiler, you must achieve compliance with the applicable provisions in this subpart as specified in paragraphs (a)(1) through (3) of this section.

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(1) If the existing affected boiler is subject to a work practice or management practice standard of a tune-up, you must achieve compliance with the work practice or management practice standard no later than March 21, 2014.
(2) If the existing affected boiler is subject to emission limits, you must achieve compliance with the emission limits no later than March 21, 2014.
(3) If the existing affected boiler is subject to the energy assessment requirement, you must achieve compliance with the energy assessment requirement no later than March 21, 2014.
(c) If you start up a new affected source after May 20, 2011, you must achieve compliance with the provisions of this subpart upon startup of your affected source.

§63.11201 - What standards must I meet?
(a) You must comply with each emission limit specified in Table 1 to this subpart that applies to your boiler.
(b) You must comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to this subpart that applies to your boiler. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in Table 2 to this subpart satisfies the energy assessment requirement. A facility that operates under an energy management program established through energy management systems compatible with ISO 50001, that includes the affected units, also satisfies the energy assessment requirement.
(c) You must comply with each operating limit specified in Table 3 to this subpart that applies to your boiler.
(d) These standards apply at all times the affected boiler is operating, except during periods of startup and shutdown as defined in §63.11237, during which time you must comply only with Table 2 to this subpart.

Table 1 to Subpart JJJJJJ of Part 63—Emission Limits
As stated in §63.11201, you must comply with the following applicable emission limits:

If your boiler is in this subcategory	For the following pollutants	You must achieve less than or equal to the following emission limits, except during periods of startup and shutdown

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5. **New oil-fired boilers with heat input capacity of 10 MMBtu/hr. or greater** that do not meet the definition of seasonal boiler or limited-use boiler.	PM (Filterable)	3.0E-02 lb. per MMBtu of heat input.

Table 2 to Subpart JJJJJJ of Part 63—Work Practice Standards, Emission Reduction Measures, and Management Practices

As stated in §63.11201, you must comply with the following applicable work practice standards, emission reduction measures, and management practices:

If your boiler is in this subcategory	You must meet the following
4. **Existing** oil-fired boilers with heat input capacity **greater than 5 MMBtu/hr.** that do not meet the definition of seasonal boiler or limited-use boiler, or use an oxygen trim system that maintains an optimum air-to-fuel ratio	Conduct an initial tune-up as specified in §63.11214, and conduct a tune-up of the boiler **biennially** as specified in §63.11223.
5. **New oil-fired boilers** with heat input capacity **greater than 5 MMBtu/hr.** that do not meet the definition of seasonal boiler or limited-use boiler, or use an oxygen trim system that maintains an optimum air-to-fuel ratio	Conduct a tune-up of the boiler biennially as specified in §63.11223.
12. **Existing oil-fired boilers with heat input capacity of equal to or less than 5 MMBtu/hr.**	Conduct an initial tune-up as specified in §63.11214, and conduct a tune-up of the boiler every 5 years as specified in §63.11223.
13. **New oil-fired boilers with heat input capacity of equal to or less than 5 MMBtu/hr.**	Conduct a tune-up of the boiler every 5 years as specified in §63.11223.
16. **Existing** coal-fired, biomass-fired, or **oil-fired boilers (units with heat input**	Must have a one-time energy assessment performed by a qualified energy assessor. An energy

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	capacity of 10 MMBtu/hr. and greater), not including limited-use boilers	assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operates under an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (1) to (4) appropriate for the on-site technical hours listed in §63.11237:
		(1) A visual inspection of the boiler system,
		(2) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,
		(3) An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,
		(4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,

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		(5) A list of major energy conservation measures that are within the facility's control,
		(6) A list of the energy savings potential of the energy conservation measures identified, and
		(7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

4.2 **Testing Requirements:**

Control of HAPs:

CONTINUOUS COMPLIANCE REQUIREMENTS

§63.11220 - When must I conduct subsequent performance tests or fuel analyses?

"(a) If your boiler has a heat input capacity of **10 million British thermal units per hour or greater**, you must conduct all applicable performance (stack) tests according to §63.11212 on a triennial basis, except as specified in paragraphs (b) through (d) of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test.

(b) When demonstrating initial compliance with the PM emission limit, if your boiler's performance test results show that your PM emissions are equal to or less than half of the PM emission limit, you do not need to conduct further performance tests for PM but must continue to comply with all applicable operating limits and monitoring requirements. If your initial performance test results show that your PM emissions are greater than half of the PM emission limit, you must conduct subsequent performance tests as specified in paragraph (a) of this section."

"(d) **For existing affected boilers** that have not operated since the previous compliance demonstration and more than 3 years have passed since the previous compliance demonstration, you must complete your subsequent compliance demonstration no later than 180 days after the re-start of the affected boiler."

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	§63.11222 - How do I demonstrate continuous compliance with the emission limits? "(a) You must demonstrate continuous compliance with each emission limit and operating limit in Tables 1 and 3 to this subpart that applies to you according to the methods specified in Table 7 to this subpart and to paragraphs (a)(1) through (4) of this section. (2) If you have an applicable mercury or **PM emission limit**, you must keep records of the type and amount of all fuels burned in each boiler during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would result in lower emissions of mercury than the applicable emission limit (if you demonstrate compliance through fuel analysis), or result in lower fuel input of mercury than the maximum values calculated during the last performance stack test (if you demonstrate compliance through performance stack testing). (b) You must report each instance in which you did not meet each emission limit and operating limit in Tables 1 and 3 to this subpart that apply to you. These instances are deviations from the emission limits in this subpart. These deviations must be reported according to the requirements in §63.11225." **§63.11223** - How do I demonstrate continuous compliance with the work practice and management practice standards? "(a) For affected sources subject to the work practice standard or the management practices of a tune-up, you must conduct a performance tune-up according to paragraph (b) of this section and keep records as required in §63.11225(c) to demonstrate continuous compliance. You must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up." "(b) Except as specified in paragraphs (c) through (f) of this section, you must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (b)(1) through (7) of this section. Each **biennial** tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler. (1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for

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	sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. (5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. (6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section. (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. (ii) A description of any corrective actions taken as a part of the tune-up of the boiler. (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. (7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup." "(e) Oil-fired boilers with a heat input capacity of equal to or less than 5 million Btu per hour must conduct a tune-up every 5 years as specified in paragraphs (b)(1) through (7) of this section. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed oil-fired boiler with a heat input capacity of equal to or less than 5 million Btu per hour, the first 5-year tune-up must be no later than 61 months after the initial startup. You may delay the burner inspection specified in paragraph (b)(1) of this section and inspection of the system controlling the air-to-fuel ratio specified in

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	paragraph (b)(3) of this section until the next scheduled unit shutdown, but you must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months."
4.3	**Monitoring Requirements:** Control of HAPs: The Permittee must operate and maintain, at all times, any affected source, including air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **[Reference: 40 CFR §63.11205(a)]**
4.4	**Record Keeping Requirements:** Control of HAPs: **§63.11225** - What are my notification, reporting, and **recordkeeping** requirements? "(c) You must maintain the records specified in paragraphs (c)(1) through (7) of this section. (1) As required in §63.10(b)(2)(xiv), you must keep a copy of each notification and report that you submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted. (2) You must keep records to document conformance with the work practices, emission reduction measures, and management practices required by §63.11214 and §63.11223 as specified in paragraphs (c)(2)(i) through (vi) of this section. (i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. (ii) *Not Applicable*. (iii) For each boiler required to conduct an energy assessment, you must keep a copy of the energy assessment report. (iv) For each boiler subject to an emission limit in Table 1 to this subpart, you must also keep records of monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used. (v) For each boiler that meets the definition of seasonal boiler, you must keep records of days of operation per year. (vi) For each boiler that meets the definition of limited-use boiler, you must keep a copy of the federally enforceable permit that limits the

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	annual capacity factor to less than or equal to 10 percent and records of fuel use for the days the boiler is operating. (3) For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation that were done to demonstrate compliance with the mercury emission limits. Supporting documentation should include results of any fuel analyses. You can use the results from one fuel analysis for multiple boilers provided they are all burning the same fuel type. (4) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in §63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation. (6) You must keep the records of all inspection and monitoring data required by §§63.11221 and 63.11222, and the information identified in paragraphs (c)(6)(i) through (vi) of this section for each required inspection or monitoring. (i) The date, place, and time of the monitoring event. (ii) Person conducting the monitoring. (iii) Technique or method used. (iv) Operating conditions during the activity. (v) Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation. (vi) Maintenance or corrective action taken (if applicable). (7) *Not Applicable*. (d) Your records must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each recorded action. You must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years."
4.5	**Reporting Requirements**: Control of HAPs: **§63.11225** - What are my **notification, reporting**, and recordkeeping requirements?

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	"(a) You must submit the notifications specified in paragraphs (a)(1) through (5) of this section to the administrator. (1) You must submit all of the notifications in §§63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to you by the dates specified in those sections except as specified in paragraphs (a)(2) and (4) of this section. (2) An Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to the standard. (3) If you are required to conduct a performance stack test you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin. (4) You must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in §63.11196 unless you must conduct a performance stack test. If you must conduct a performance stack test, you must submit the Notification of Compliance Status within 60 days of completing the performance stack test. You must submit the Notification of Compliance Status in accordance with paragraphs (a)(4)(i) and (vi) of this section. The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs (a)(4)(i) through (v) of this section, as applicable, and signed by a responsible official. (i) You must submit the information required in §63.9(h)(2), except the information listed in §63.9(h)(2)(i)(B), (D), (E), and (F). If you conduct any performance tests or CMS performance evaluations, you must submit that data as specified in paragraph (e) of this section. If you conduct any opacity or visible emission observations, or other monitoring procedures or methods, you must submit that data to the Administrator at the appropriate address listed in §63.13. (ii) "This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler." (iii) "This facility has had an energy assessment performed according to §63.11214(c)." (iv) For units that install bag leak detection systems: "This facility complies with the requirements in §63.11224(f)." (v) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." (vi) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this

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	subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in §63.13. (5) If you are using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of this subpart, you must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to this subpart. (b) You must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in paragraphs (b)(1) through (4) of this section. You must submit the report by March 15 if you had any instance described by paragraph (b)(3) of this section. For boilers that are subject only to a requirement to conduct a biennial or 5-year tune-up according to §63.11223(a) and not subject to emission limits or operating limits, you may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of this section. (1) Company name and address. (2) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official: (i) "This facility complies with the requirements in §63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler." (ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit." (iii) "This facility complies with the requirement in §§63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available." (3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.

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	(4) The total fuel use by each affected boiler subject to an emission limit, for each calendar month within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by you or EPA through a petition process to be a non-waste under §241.3(c), whether the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of §241.3, and the total fuel usage amount with units of measure."

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

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5.0	**Emissions Unit Number(s): Emergency & Non-Emergency Generators** See Generators Listed in Table Below
5.1	**Applicable Standards/Limits:** A. Control of Visible Emissions **COMAR 26.11.09.05E** - Stationary Internal Combustion Engine Powered Equipment. "(2) Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity. (3) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity. (4) Exceptions. (a) Section E(2) of this regulation does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system. (b) Section E(2) of this regulation does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods: (i) Engines that are idled continuously when not in service: 30 minutes; (ii) All other engines: 15 minutes. (c) Section E(2) and (3) of this regulation do not apply while maintenance, repair, or testing is being performed by qualified mechanics." B. Control of Sulfur Oxides **COMAR 26.11.09.07A(2)** - Sulfur Content Limitations for Fuel.

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	"A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: () Distillate fuel oils, 0.3 percent." C. Control of Nitrogen Oxides **COMAR 26.11.09.08G**- Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent. (1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall: (a) Provide certification of the capacity factor of the equipment to the Department in writing; (b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually; (c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request; (d) Require each operator of an installation, except combustion turbines, to attend operator training programs at least once every 3 years, on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and (e) Maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request.
5.2	**Testing Requirements**: A. Control of Visible Emissions See Monitoring Requirements. B. Control of Sulfur Oxides See Monitoring Requirements. C. Control of Nitrogen Oxides The Permittee shall perform a combustion analysis and optimize combustion at least once annually for any of the engines that operates more than 500 hours during a calendar year. [**Reference: COMAR 26.11.09.08G(1)(b)**].

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5.3	**Monitoring Requirements:** A. Control of Visible Emissions The Permittee shall properly operate and maintain the engines in a manner to minimize visible emissions. **[Reference: COMAR 26.11.03.06C]** B. Control of Sulfur Oxides The Permittee shall obtain a certification from the fuel supplier indicating that the fuel oil complies with the limitation on sulfur content of the fuel oil. **[Reference: COMAR 26.11.03.06C].** C. Control of Nitrogen Oxides For engines that operate more than 500 hours during a calendar year, the Permittee shall perform a combustion analysis and optimize combustion. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall calculate the capacity factor of the engine within 30 days after the end of each month. **[Reference: COMAR 26.11.03.06C].**
5.4	**Record Keeping Requirements:** A. Control of Visible Emissions The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to the Department upon request. **[Reference: COMAR 26.11.03.06C]** B. Control of Sulfur Oxides The Permittee shall retain annual fuel supplier certifications stating that the fuel oil is in compliance with this regulation must be maintained for at least 5 years. **[Reference: COMAR 26.11.09.07C].** C. Control of Nitrogen Oxides The Permittee shall maintain records of the results of the combustion analyses and any stack tests on site for at least five years and make them available to the Department and EPA upon request. **[Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C]**. The Permittee shall maintain a record of the calculated capacity factor. **[Reference: COMAR 26.11.09.08G(1)(c)].** The Permittee shall maintain record of training program attendance for each operator on site for at least five years and make the records available to the Department upon request. **[Reference: COMAR 26.11.09.08G(e) & COMAR 26.11.03.06C]**.

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5.5	**Reporting Requirements:** A. Control of Visible Emissions The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emissions and Deviations" B. Control of Sulfur Oxides The Permittee shall report annual fuel supplier certification to the Department upon request. **[Reference: COMAR 26.11.09.07C].** C. Control of Nitrogen Oxides The Permittee shall provide certification of the capacity factor of the equipment to the Department in writing as part of the April 1 certification report. **[Reference: COMAR 26.11.03.06C].** The Permittee shall submit a list of trained operators to the Department upon request. **[Reference: COMAR 26.11.09.08G(e) and COMAR 26.11.03.06C].**

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

EMERGENCY & NON-EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
Emergency Generators			
03-0328-A01	9-0229	One (1) emergency generator rated at 1072-bhp.	1997
03-0394-A01 & A02	9-0227 & 9-0228	Two (2) emergency generator sets each rated at 1341 bhp	1997
03-4600-A04 & A05	9-0276 & 9-0277	Two (2) emergency generator sets each rated at 1877 bhp	1996
03-0394-A03 thru A07	9-0386 thru -9-0390	Five (5) Cummins emergency generator sets each rated at 750 bhp (500 kW) located in Bldg. 394 – ARL Compound	2008
26-6003-GMS Lab-A04	9-0393	One (1) 2500 kW (3778 bhp) diesel emergency generator set (Tier I certified) to be located at C4ISR-Phase I Research and Development – GMS Lab Building.	2009
26-6007-C2CNT West-A05	9-0394	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – C2CNT West Building	2008
26-6006-GMS Tower-A04	9-0395	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at	2008

EMERGENCY & NON-EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
		C4ISR-Phase I Research and Development – GMS Tower Building	
26-6002-HQBuilding-A06	9-0396	One (1) 2000 kW (2900 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – HQ Building 2 and serves both HQ Building 1 & HQ Building 2.	2008
0120-A01	9-0408	One (1) Cummins emergency generator rated at 2922 bhp	2012
0316-A01	9-0409	One (1) Cummins emergency generator set rated at 2922 bhp	2012
3090-JSEC-01	9-0410	One (1) emergency generator rated at 2000-kW	2010
26-6010-C2CNT East-6009-JSEC	9-0411	Two (2) emergency generator sets each rated at 2919 bhp	2010
	9-0412	One (1) emergency generator set rated at 2200 bhp	2010
0328-A02	9-0414	One (1) emergency generator set rated at 670.5 bhp	2006
0328-A03	9-0418	One (1) Detroit emergency generator set rated at 804.6 bhp	2006
0311-A01	9-0419	One (1) emergency generator set rated 600 bhp	1986
0120-A02 & 0120-A03	9-0433 & 9-0434	Two (2) Cummins emergency generator sets each rated at 2922 bhp	2012
3147-A01	9-0491	One (1) emergency generator set rated at 670 bhp	2015
2202-A01	9-0499	One (1) emergency generator set rated at 755 bhp	2015
3660-A01	9-0500	One (1) emergency generator set rated at 643 bhp	1995
0120-A04	9-0503	One (1) emergency generator set rated at 2922 bhp	2017
0120-A05	9-0504	One (1) emergency generator set rated at 2922 bhp	2016
5016-A01	9-0510	One (1) Cummins emergency generator rated at 2356 bhp	2017
5046-A01	9-0509	One (1) Cummins emergency generator rated at 617 bhp	2017
3511-A01 & A02	9-0539 & 9-0540	Two (2) MTU 16V4000G84F diesel fired emergency generator sets, each rated at 2970-hp. PTC issued 2/27/2024	2024
0463-A01	9-0548	One (1) MTU 8V1600DS400 diesel fired emergency generator set rated at 460-kW, Bldg. 463. (Tier III). GP issued 4/30/2025	2025
Non–Emergency Generators			
BSS-01	9-0435	One (1) Detroit non-emergency generator set rated at 600 bhp	2001
LWE-01 thru LWE-05	9-0436	Five (5) Detroit non-emergency generator sets each rated at 550 bhp	2006
UTF-01	9-0437	One (1) Cummins non-emergency generator set rated at 500 bhp	1993

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5a.0	**Emissions Unit Number(s): Emergency Generators Cont'd** See NSPS & NESHAP for Emergency Generators Table Below
5a.1	**Applicable Standards/Limits:** A. New Source Performance Standards (**NSPS**) under 40 CFR Part 60 Subpart IIII for Stationary Compression Ignition Internal Combustion Engines. (1) This permit is valid only for the installation of an emergency diesel generator with piston displacement less than 10 liters per cylinder. (2) The provisions of 40 CFR Part 60, Subpart IIII apply if the emergency diesel generator uses a diesel engine manufactured after April 1, 2006 **[Ref: §60.4200]**. (3) An emergency diesel generator or diesel engine subject to the requirements of 40 CFR 60, Subpart IIII ("NSPS emergency diesel generator" or "NSPS emergency diesel engine") shall be equipped with a non-resettable hour meter **[Ref: §60.4209(a)].** (4) The Permittee shall only purchase emergency generator sets certified to meet the emission standards of §60.4205(b). The generators must be installed and configured according to the manufacturer's specifications. **[Ref: §60.4211(c)]** (5) The Permittee must purchase and install emergency generator sets certified to the emission standards for new nonroad diesel engines in 40 CFR §1039.105, appendix I **[Ref: §62.4202(a)(2)];** (6) The requirements of condition (5) above do not apply to owners or operators of NSPS emergency diesel engines that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location **[Ref: §60.4208]**. B. National Emissions Standards for Hazardous Air Pollutants (**NESHAP**) promulgated under 40 CFR 63, Subparts A and ZZZZ for Reciprocating Internal Combustion Engines "**§63.6590** - What parts of my plant does this subpart cover? This subpart applies to each affected source.

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	(c) Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of **40 CFR part 60 subpart IIII**, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. *No further requirements apply for such engines under this part.* (1) A new or reconstructed stationary RICE located at an area source." C. Operational Limits (1) The Permittee must operate and maintain an NSPS emergency diesel generator and control devices according to the manufacturer's written instructions or according to procedures developed by the owner or operator that are approved by the manufacturer. Additionally the Permittee may change only those settings that are permitted by the manufacturer. The Permittee must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they may apply to an owner or operator [**Ref: §60.4211**]. (2) The Permittee must meet the non-road diesel fuel sulfur requirements of 40 CFR §1090.305 as follows: (a) Maximum sulfur content 15 ppm and (b) Minimum cetane index of 40; or (c) Maximum aromatic content of 35 volume percent. **[Ref: 40 CFR §60.4207(b) and §1090.305]** *Note: **Compliance** with this requirement demonstrates compliance with COMAR 26.11.09.07A(2)(b) which limits the sulfur content of diesel fuel (No. 2 fuel oil) to 0.3 percent by weight.* (3) The Permittee must comply with the following emissions standards for the emergency generator set: (a) Non-methane Hydrocarbons and NO_x (NMHC+NO_x): 6.4 grams per kilowatt-hour (g/kW-hr) (b) Carbon Monoxide (CO): 3.5 g/kW-hr (c) Particulate Matter (PM): 0.2 g/kW-hr **[Ref: 40 CFR §60.4205(b), §60.4202(a)(2), and §1039.105, appendix I]** *Note: Compliance is demonstrated by maintaining documentation that the engine is certified to meet these limits by the manufacturer.* (4) The exhaust opacity from the emergency generator shall not exceed: (a) 20 percent during the acceleration mode;

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	(b) 15 percent during the lugging mode; and (c) 50 percent during the peaks in either the acceleration or lugging modes. [**Ref: 40 CFR §60.4205(b), §60.4202(a)(2), and §1039.105**] (5) The Permittee must use diesel fuel in the emergency generator set that meets the requirements of 40 CFR §1090.305 diesel fuel that has a per-gallon sulfur content that does not exceed 15 ppm, and that either has a minimum per-gallon cetane index of 40 or a maximum per-gallon aromatic content of 35 volume percent), unless a waiver is obtained from the Department and/or the EPA Administrator. **[Ref: §60.4207]**. (6) In accordance with 40 CFR §60.4211(f), non-emergency use of the emergency diesel generator set for the purpose of maintenance checks and readiness testing is limited to 100 hours per year or less unless prior approval is received from the Department. (7) There is no time limit on the use of the emergency generator in emergency situations. **[Reference: 40 CFR §60.4211(f)(1)]** (8) The Permittee may operate the emergency stationary ICE for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. **[Reference: 40 CFR §60.4211(f)(2)(i)]** (9) For the purpose of maintaining synthetic minor status for the C4ISR-Phase I Research and Development Facility, the combined NOx emissions from the all fuel burning equipment (boilers and generators) at the facility must be less than 25 tons in any rolling 12-month period. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 issued July 15, 2009, Part D-Operating Conditions, Condition 7]**

Table IV – 5a	
5a.2	**Testing Requirements:** A. NSPS See Record Keeping Requirements. B. NESHAP See NSPS Requirements. C. Operational Limit See Record Keeping Requirements.
5a.3	**Monitoring Requirements:** A. NSPS See Record Keeping Requirements. B. NESHAP See NSPS Requirements. C. Operational Limit See Record Keeping Requirements.
5a.4	**Record Keeping Requirements:** **Note:** All records must be maintained for a period of at least 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]** A. NSPS (1) The Permittee shall maintain a log for the emergency generator indicating the amounts of fuel oil combusted or the hours of operation, and reason for generator operation (i.e., maintenance or operational testing, power outage, etc.). **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 & 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Condition 1].** (2) The Permittee shall maintain on site for the life of the source the following records for the emergency diesel generator(s): (a) Documentation of the manufacture date of the diesel engine, if manufactured prior to April 1, 2006 and the manufacturer model year of the diesel engine; (b) The installation date of each emergency diesel generator; and (c) The certifications of compliance or manufacturer engine test data required by 40 CFR §60.4211 and §60.4214(b). **[Reference: MDE**

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	PTC 025-0081-9-0393 thru -9-0396 & 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Conditions 2]. (3) Beginning October 1, 2007, for any NSPS emergency diesel generator the Permittee shall, for each fuel delivery obtain from the fuel supplier a fuel supplier certification consisting of the name of the oil supplier, the date of delivery, the amount of fuel delivered, and a statement from the fuel supplier that the diesel fuel oil complies with the specifications of 40 CFR §1090.305. The Permittee shall maintain the required records on site for at least five (5) years. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 & 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Condition 3].** B. NESHAP See NSPS Requirements. C. Operational Limit: In order to demonstrate compliance with the annual emissions limitations, the Permittee shall calculate and record the NO_x emissions for each previous calendar month and a total for the previous 12 consecutive calendar months for the C4ISR-Phase I Research and Development Facility. The calculations and records shall be updated monthly, within the first 15 days of each following month. These records shall be submitted to the Department as part of the semi-annual report. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 issued July 15, 2009, Part E-Record Keeping and Reporting Requirements, Condition 4]**
5a.5	**Reporting Requirements:** A. NSPS See Record Keeping Requirements. B. NESHAP See NSPS Requirements. C. Operational Limit The Permittee shall report the amounts of fuel oil combusted or the hours of operation, and reason for generator operation (i.e., maintenance or operational testing, power outage, etc.) to the Department in the annual emission certification report due on April 1 of each year. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 & 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Condition 1].**

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0120-A01 thru 0120-A03	9-0408 & 9-0433 & 9-0434	Three (3) emergency generator sets each rated at 2922 bhp	2012
0120-A04	9-0503	One (1) emergency generator set rated at 2922 bhp	2017
0120-A05	9-0504	One (1) emergency generator set rated at 2922 bhp	2016
0328-A02	9-0414	One (1) emergency generator set rated at 670.5 bhp	2006
0328-A03	9-0418	One (1) emergency generator set rated at 804.6 bhp	2006
03-0394-A03 thru A07	9-0386 thru -9-0390	Five (5) emergency generator sets each rated at 750 bhp (500 kW) located in Bldg. 394 – ARL Compound	2008
6009-JSEC	9-0412	One (1) emergency generator set rated at 2200 bhp	2010
26-6010-C2CNT East-	9-0411	Two (2) emergency generator sets each rated at 2919 bhp	2010
26-6003-GMS Lab-A04	9-0393	One (1) 2500 kW (3778 bhp) diesel emergency generator set (Tier I certified) to be located at C4ISR-Phase I Research and Development – GMS Lab Building.	2009
26-6007-C2CNT West-A05	9-0394	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – C2CNT West Building	2008
26-6006-GMS Tower-A04	9-0395	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – GMS Tower Building	2008
26-6002-HQBuilding-A06	9-0396	One (1) 2000 kW (2900 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – HQ Building 2 and serves both HQ Building 1 & HQ Building 2.	2008
2202-A01	9-0499	One (1) emergency generator set rated at 755 bhp	2015
3147-A01	9-0491	One (1) Katolight diesel fired emergency generator set rated at 500-kW (670 bhp)	2015
0316-A01	9-0409	One (1) Cummins emergency generator set rated at 2922 bhp	2012
5016-A01	9-0510	One (1) Cummins emergency generator rated at 2356 bhp	2017
5046-A01	9-0509	Emergency Generator rated at 617 bhp	2017
3090-JSEC-01	9-0410	One (1) emergency generator set rated at 2923 bhp	2010
3511-A01 & A02	9-0539 & 9-0540	Two (2) MTU 16V4000G84F diesel fired emergency generator sets, each rated at 2970-hp. PTC issued 2/27/2024	2024

EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0463-A01	9-0548	One (1) MTU 8V1600DS400 diesel fired emergency generator set rated at 460-kW, Bldg. 463. (Tier III). GP issued 4/30/2025	2025

Table IV – 5b: MACT	
5b.0	**Emissions Unit Number(s): Emergency & Non-Emergency Generators Cont'd** Emergency & non-emergency generators subject to NESHAP Subpart ZZZZ Requirements. See Table below
5b.1	**Applicable Standards/Limits:** **§63.6595 - When do I have to comply with this subpart?** (a) *Affected sources.* (1)" ..... If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, **or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.** .....". **§63.6603** - What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions? Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart. (a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 1b and Table 2b to this subpart that apply to you. **Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions** As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

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For each.	You must meet the following requirement, except during periods of startup.	During periods of startup you must.
1. **Non-Emergency**, non-black start CI stationary RICE ≤300 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;[1] b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
2. **Non-Emergency**, non-black start CI stationary RICE 300<HP≤500	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O_2; or	
	b. Reduce CO emissions by 70 percent or more.	
3. **Non-Emergency,** non-black start CI stationary RICE>500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O_2; or	
	b. Reduce CO emissions by 70 percent or more.	
4. **Emergency stationary CI RICE** and black start stationary CI RICE.[2]	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1]	

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	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	

[1]Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

[2]If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

§63.6605 - What are my general requirements for complying with this subpart?

"(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.
(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source."

5b.2	**Testing Requirements:** **§63.6615** - When must I conduct subsequent performance tests?

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	"If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart." **§63.6620** - What performance tests and other procedures must I use? (a) "You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you." (b) "Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load for the stationary RICE listed in paragraphs (b)(1) through (4) of this section."
5b.3	**Monitoring Requirements:** **§63.6625** - What are my monitoring, installation, collection, operation, and maintenance requirements? "(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (6) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011. (1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in §63.8(d). As specified in §63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan. (i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations; (ii) Sampling interface (*e.g.,* thermocouple) location such that the monitoring system will provide representative measurements;

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	(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures; (iv) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (c)(3); and (v) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i). (2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan. (3) The CPMS must collect data at least once every 15 minutes (see also §63.6635). (4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger. (5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually. (6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan." "(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions: (3) An **existing emergency** or black start stationary RICE located at an area source of HAP emissions." "(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or **an existing emergency stationary RICE located at an area source of HAP emissions,** you must install a non-resettable hour meter if one is not already installed." "(g) If you own or operate an existing **non-emergency**, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for

Table IV – 5b: MACT	
	operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska that meet either §63.6603(b)(1) or §63.6603(b)(2) do not have to meet the requirements of this paragraph (g). Existing CI engines located on offshore vessels that meet §63.6603(c) do not have to meet the requirements of this paragraph (g). (1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or (2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals." "(h) If you operate a new, reconstructed, or **existing stationary engine**, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply." "(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the

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	program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine." **§63.6640** - How do I demonstrate continuous compliance with the emission limitations and operating limitations? (a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart. (b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE. "(f) If you own or operate an **emergency stationary RICE**, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines. (1) There is no time limit on the use of emergency stationary RICE in emergency situations. (2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

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	(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. (3) *Not Applicable.* (4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity."
5b.4	**Record Keeping Requirements:** **Note:** All records must be maintained for a period of at least 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]** **§63.6655** - What records must I keep? "(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section. (1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv). (2) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment. (3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii). (4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

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	(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation." "(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section. (1) Records described in §63.10(b)(2)(vi) through (xi). (2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3). (3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable." "(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors." "(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you." "(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE; (2) An existing stationary emergency RICE. (3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart." "(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

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	(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines."
5b.5	**Reporting Requirements**: "If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable." **[Footnote 2 of Table 2d]** **§63.6650** - What reports must I submit and when? "(a) You must submit each report in Table 7 of this subpart that applies to you." "(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section. (1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595. (2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595. (3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

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	(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. (5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section. (6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31. (7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595. (8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31. (9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31." "(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section. (1) Company name and address. (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report. (3) Date of report and beginning and ending dates of the reporting period. (4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction. (5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

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	(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period." "(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section. (1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period. (2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken." "(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section. (1) The date and time that each malfunction started and stopped. (2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks. (3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8). (4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period. (5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period. (6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes. (7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period. (8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

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	(9) A brief description of the stationary RICE. (10) A brief description of the CMS. (11) The date of the latest CMS certification or audit. (12) A description of any changes in CMS, processes, or controls since the last reporting period." "(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority." "(h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section. (1) The report must contain the following information: (i) Company name and address where the engine is located. (ii) Date of the report and beginning and ending dates of the reporting period. (iii) Engine site rating and model year. (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place. (v) Hours operated for the purposes specified in §63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(2)(ii) and (iii). (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §63.6640(f)(2)(ii) and (iii). (vii) Hours spent for operation for the purpose specified in §63.6640(f)(4)(ii), including the date, start time, and end time for

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	engine operation for the purposes specified in §63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine. (viii) If there were no deviations from the fuel requirements in §63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period. (ix) If there were deviations from the fuel requirements in §63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken. (2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year. (3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §63.13."

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

MACT Emergency and non-emergency GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
03-0328-A01	9-0229	One (1) emergency generator set rated at 1072 bhp	1997
0328-A02	9-0414	One (1) emergency generator set rated at 670.5 bhp	2006
0328-A03	9-0418	One (1) emergency generator set rated at 804.6 bhp	2006
0311-A01	9-0419	One (1) emergency generator set rated at 600 bhp	1986
03-0394-A01 & A02	9-0227 & 9-0228	Two (2) emergency generator sets each rated at 1341 bhp	1997
03-4600-A04 & A05	9-0276 & 9-0277	Two (2) emergency generator sets each rated at 1877 bhp	1996
3660-A01	9-0500	One (1) emergency generator set rated at 643 bhp	1995
Non-Emergency Generators			
BSS-01	9-0435	One (1) Detroit non-emergency generator rated at 600 bhp that runs hydraulic equipment	2001
LWE-01 thru LWE-05	9-0436	Five (5) Detroit non-emergency generators each rated at 550 bhp that run hydraulic equipment	2006

MACT Emergency and non-emergency GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
UTF-01	9-0437	One (1) Cummins non-emergency generator rated at 500 bhp that runs hydraulic equipment	1993

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6.0 **Emissions Unit Number(s): Paint Spray Booth**

07-0525-A04 & A06 - Two (2) custom made cross draft paint spray booths. **[12-6-0159 & 12-6-0162]**.

6.1 **Applicable Standards/Limits:**

Control of Volatile Organic Compounds
COMAR 26.11.19.23E. General Requirements and Standards.
(1) VOC Content Limits.
(a) Except as provided in this regulation, effective July 1, 2013, a person who is subject to this regulation may not supply, sell, offer for sale, distribute, or manufacture for use within the State an automotive coating or cleaning solvent with a VOC content in excess of the corresponding limit specified in Table 1 of §E(1) or in §E(5) of this regulation.
(b) A person may not use or apply to a motor vehicle, mobile equipment, or associated parts and components, an automotive coating or cleaning solvent for vehicle refinishing that exceeds the VOC content specified in Table 1 of §E(1) or in §E(5) of this regulation.

Table 1. VOC Content Limits for Automotive Coatings for Motor Vehicle and Mobile Equipment Non-Assembly Line Refinishing and Recoating.

	VOC Content Limit of Coatings as Applied*	
Coating Category	Pounds per gallon	Grams per liter
Adhesion promoter	4.5	540
Automotive pretreatment coating	5.5	660
Automotive primer	2.1	250
Clear coating	2.1	250

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Color coating, including metallic/iridescent color coating	3.5	420
Multicolor coating	5.7	680
Other automotive coating type	2.1	250
Single-stage coating, including single-stage metallic/iridescent coating	2.8	340
Temporary protective coating	0.5	60
Truck bed liner coating	1.7	200
Underbody coating	3.6	430

* The VOC content is determined as the weight of volatile compounds (prepared to manufacturer's maximum VOC content), less water and exempt compounds, as specified in §E(2) of this regulation.

COMAR 26.11.19.23H. Work Practice Standards.
(1) Spray guns used to apply automotive coating components or automotive coatings shall be cleaned by one or a combination of the following:
(a) A fully enclosed spray gun cleaning system that is kept closed when not in use and is maintained in accordance with the requirements of §L(1)(a)—(c) of this regulation;
(b) Unatomized discharge of solvent into a paint waste container that is kept closed when not in use;
(c) Disassembly of the spray gun and cleaning in a vat that is kept closed when not in use; or
(d) Atomized spray into a paint waste container that is filled with a device designed to capture atomized mist or spray solvent emissions.
(2) The owner or operator of an automotive refinishing facility or non-assembly line operation subject to this regulation shall implement the following work practice standards and training measures:
(a) Fresh and used automotive coating components, automotive coatings, solvents, and cleaning solvents shall be stored in vapor tight, nonabsorbent, nonleaking containers that shall be kept closed at all times except when filling or emptying;
(b) Cloth or paper, or absorbent applicators, moistened with automotive coatings components, automotive coatings, solvents, or cleaning solvents shall be stored in closed, vapor tight, nonabsorbent, nonleaking containers;
(c) Handling and transfer procedures to minimize spills during the transfer of automotive coating components, automotive coatings, solvents, and cleaning solvents; and

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	(d) Ensure that a person who uses or applies automotive coating components, automotive coatings, solvents, or cleaning solvents has completed training in the proper use and handling of the automotive coating components, automotive coatings, solvents, and waste products in order to minimize the emission of air contaminants and to comply with the provisions of this regulation.
6.2	**Testing Requirements**: Control of Volatile Organic Compounds See Monitoring Requirements.
6.3	**Monitoring Requirements:** Control of Volatile Organic Compounds **COMAR 26.11.19.23I.** Compliance Procedures and Monitoring Requirements. (1) Compliance Statement Requirements. (a) For each automotive coating product or automotive coating component product, a manufacturer and repackager who is subject to the provisions of this regulation shall include the following information on product data sheets or an equivalent documentation: (i) The VOC actual content and VOC regulatory content, as supplied, for the coating product or coating component product, expressed in grams per liter, calculated in accordance with §E(2)(a)(i) and (ii) of this regulation; (ii) The weight percent of volatiles, water, and exempt compounds; (iii) The volume percent of water and exempt compounds; and (iv) The density of the material (in grams per liter). (b) For each ready to spray mixture (based on the manufacturer's and repackager's stated mix ratio) product, the manufacturer and repackager shall include the following information on product data sheets or an equivalent documentation: (i) The VOC actual content and the VOC regulatory content, as applied, for the coating product or coating component product, expressed in grams per liter; (ii) The weight percent of volatiles, water, and exempt compounds; (iii) The volume percent of water and exempt compounds; and (iv) The density of the material (in grams per liter). (c) The manufacturer and repackager of cleaning solvents subject to this regulation shall include the VOC content of the cleaning solvents as supplied, calculated in accordance with the requirements of §E(2)(a)(iii)

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	of this regulation, expressed in grams per liter, on product data sheets or an equivalent documentation. (2) Container Labeling Requirements. The manufacturer and repackager of automotive coatings or automotive coating components shall include the following information on all containers or on a label affixed to the container: (a) The applicable use category or categories; (b) The VOC actual content of the coating or coating component, as supplied, calculated in accordance with the requirements of §E(2)(a)(ii of this regulation) and expressed in grams per liter; (c) The VOC regulatory content of the coating or coating component as supplied, calculated in accordance with the requirements of §E(2)(a)(i) of this regulation and expressed in grams per liter; and (d) The manufacturer and repackager of cleaning solvents subject to this rule shall include on all containers, or on a label affixed to the container, the VOC content for cleaning solvents, as supplied, calculated in accordance with the requirements of §E(2)(a)(iii of this regulation) and expressed in grams per liter.
6.4	**Record Keeping Requirements:** **Note:** All records must be maintained for a period of at least 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]** Control of Volatile Organic Compounds **COMAR 26.11.19.23J**. Record Keeping. (1) Record-Keeping Requirements for Coatings, Coating Components and Solvents. A person who uses automotive coatings, automotive coating components, ready-to-spray coatings (based on the manufacturer's stated mix ratio), or cleaning solvents subject to this regulation shall maintain and have available at all times, the following: (a) A current list of all coatings, coating components and cleaning solvents used that are subject to this regulation which includes the following information for each coating, coating component and cleaning solvent: (i) Whether the material is a coating, coating component, or cleaning solvent; (ii) Coating, coating component or cleaning solvent name and manufacturer; (iii) Application method; (iv) Coating type; (v) The mix ratio specific to the coating, coating component or cleaning solvent; and

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	(vi) The VOC actual content and VOC regulatory content as applied, for each ready to spray or ready to apply coating or cleaning solvent and copies of data sheets documenting how the as applied values were determined; (b) The VOC actual content and VOC regulatory content as supplied and copies of current manufacturer specification sheets, product data sheets, material safety data sheets, technical data sheets, or air quality data sheets documenting the as supplied value; and (c) Purchase records identifying the following; (i) The coating type; (ii) Coating, coating component, or cleaning solvent name; and (iii) Volume purchased of the coating, coating component or cleaning solvent. (2) Record-Keeping Requirements for Emission Control Systems. A person using an emission control system shall maintain daily records of the following key system operating parameters which demonstrate continuous operation and compliance of the emission control system during periods of VOC emission producing activities: (a) Temperatures; (b) Pressure drops; and (c) Air flow rates. (3) The records under this regulation shall be maintained for not less than 3 years and made available to the Department upon request.
6.5	**Reporting Requirements:** Control of Volatile Organic Compounds The Permittee shall report material usage and VOC content of coatings to the Department annually in the Emission Certification Report. **[Reference: COMAR 26.11.03.06C]**

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

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7.0	**Emissions Unit Number(s): Underground Storage Tank** **26-04029-A03 & A05 –** Two (2) 20,000-gallon underground storage tanks equipped with Stage I vapor recovery systems installed in 1993. **[9-0152].** APG has a bulk gasoline/diesel terminal that is used to fill fuel trucks to deliver fuel by trucks as needed.

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7.1	**Applicable Standards/Limits:** Control of Volatile Organic Compounds **COMAR 26.11.13.04C** - Small Storage Tanks. (1) "Applicability. This section applies to a person who owns or operates: (a) A gasoline storage tank that has a tank capacity greater than 2,000 gallons but less than 40,000 gallons; or (b) A gasoline tank truck used to transfer gasoline into a storage tank that is listed in Sec. C(1)(a) of this regulation. (2) Stage I Vapor Recovery. An owner or operator of a gasoline tank truck or an owner or operator of a stationary storage tank subject to this regulation may not cause or permit gasoline to be loaded into a stationary tank unless the loading system is equipped with a vapor balance line that is properly installed, maintained and used." Operational Limits **COMAR 26.11.24.06**-Training Requirements for Operation and Maintenance of Approved Systems. A. "General. An operator shall ensure that: (1) At least one employee at each facility subject to this regulation is trained in accordance with the requirements of Sec. B of this regulation; and (2) The trained employee assists in the training of each of the other employees at that facility who are involved in the operation or maintenance of the approved system. B. Approved Training Course Contents and Duration. (1) An approved training course shall contain, at a minimum, a discussion of the following: (a)Purposes and effects of Stage II vapor recovery; (b)Stage II vapor recovery equipment design, function, operation and maintenance; (c)Daily inspection requirements and development and maintenance of records and files; and (d)Equipment warranties and spare parts. (2) The approved training course shall be of duration sufficient to properly train persons in the requirements of this chapter." **COMAR 26.11.24.08** - Instructional Signs A. "An operator who is subject to this chapter shall place instructional signs in conspicuous locations at each gasoline dispenser.

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	B. The instructional signs shall include: (1) Instructions, with illustrations, on how to insert the nozzle, dispensing gasoline, and how to remove the nozzle; (2) A warning against attempts to continue refueling after automatic shutoff of the gasoline (that is, topping off); and (3) The Department's toll-free telephone number, which may be used for complaints or comments concerning the use of the Stage II vapor recovery systems."
7.2	**Testing Requirements:** **COMAR 26.11.24.04** - Testing Requirements. A. Except as provided in §§E and F of this regulation, an owner subject to this chapter shall perform the following CARB-approved tests. (1) A leak test in accordance with the Vapor Recovery Test Procedure TP-201.3 referenced in Regulation .01-1B(1) of this chapter; (2) An air to liquid volume ratio test in accordance with the Vapor Recovery Test Procedure TP-201.5 referenced in Regulation .01-1B(2) of this chapter. (3) A dynamic pressure performance test in accordance with the Vapor Recovery Test Procedure TP-201.4 referenced in Regulation .01-1B(3) of this chapter; (4) A vapor return line vacuum integrity test for the Healy Model 400 ORVR System in accordance with Executive Order G-70-186, Exhibit 4 referenced in Regulation .01-1B(4) of this chapter; and (5) A vapor return line vacuum integrity test for the Healy Model 600 System in accordance with Executive Order G-70-165 Exhibit 4 referenced in Regulation .01-1B(5) of this chapter. B. The leak and liquid blockage tests required in §A of this regulation shall be performed on each approved system before the gasoline dispensing facility is initially used to refuel motor vehicles, or by the applicable dates in Regulation .03 of this chapter, whichever occurs later. C. Reserved D. If a gasoline dispensing facility fails any test required by this chapter, the owner shall notify the Department of the failure in writing within 5 working days after the test and before retesting. E. Alternative test methods approved by CARB may be used in place of the test methods specified in § A of this regulation, if the alternative test methods are approved by the U.S. Environmental Protection Agency (EPA) as a revision to the State Implementation Plan, which is Maryland's plan for meeting the National Ambient Air Quality Standards.

Table IV–7	
	F. Test methods and the frequency of testing required by this regulation may be modified for vapor assist systems, if the test methods and testing frequency are approved by the Department and the EPA.
7.3	**Monitoring Requirements:** **COMAR 26.11.24.05 -** Inspection Requirements. A. "An operator subject to this chapter shall ensure that each approved system is inspected at least once each day of operation to verify that it is working properly. B. Except as provided in Sec. C of this regulation, the Department shall consider an operator of a gasoline dispensing facility to be in violation of Regulation .03E of this chapter during periods of time when defective equipment at the facility is placed in operation. C. The operator is not in violation of Regulation .03E of this chapter during any period of time that the operator establishes, to the satisfaction of the Department, that nozzles associated with defective equipment were tagged out of service and that no nozzle associated with the defective equipment was actually used. D. For any defective equipment identified by the Department, the operator shall effect necessary repairs before placing the equipment in service, and shall inform the Department by telephone within 72 hours after the repair or replacement of the defective equipment has been effected."

Table IV–7	
7.4	**Record Keeping Requirements:** **COMAR 26.11.24.07 -** Recording Keeping and Reporting Requirements. A. "An operator subject to this chapter shall create and maintain a record file at the facility. B. The record file shall contain copies of all test reports, permits, violation notices, correspondence with the Department, equipment maintenance records, training records, and other information pertinent to the requirements of this chapter. Verification of training shall be maintained in the facility file. Equipment maintenance records required under this chapter shall be maintained for at least 2 years. All other records shall be maintained for at least 5 years. C. The equipment maintenance records shall include: (1) The date on which defective equipment was found, a description of each defect, a description of the corrective action and the date on which the defect was corrected, and the probable cause of the defect; (2) If parts are replaced, the location within the approved system of the part, the part number, and assurance that the replacement part does not degrade the efficiency of the system; and (3) Inspection reports and any other information relating to maintenance or care of the approved system."
7.5	**Reporting Requirements:** If any test is failed, the Permittee shall notify the Department in writing within 5 days after the test and before retesting. **[Reference: COMAR 26.11.24.04E]** The Permittee shall submit written notification to the Department within 5 days of the incident, unless otherwise specified by the Permit. **[Reference: COMAR 26.11.24.04E]** **COMAR 26.11.24.07E**: "The following reporting requirements apply to a test under this chapter: (1) The Department shall be notified 5 days before a test is to be conducted; (2) A test protocol shall be available at the test site during testing; (3) Copies of all test results shall be forwarded to the Department within 30 days of the test; and

Table IV–7	
	(4) Test failures shall be reported to the Department in writing within 5 days following the date of the failure."

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

Table IV – 8	
10.0	**Emissions Unit Number(s)** Facility-Wide
10.1	**Applicable Standards/Limits:** Control of VOC Emissions A. **COMAR 26.11.19.02I.** - Good Operating Practices, Equipment Cleanup, and VOC Storage. "(1) Applicability. The requirements in this section apply to a person who owns or operates an installation that is subject to any requirement in this chapter. (2) Good Operating Practices. (a) A person who is subject to this section shall implement good operating practices to minimize VOC emissions into the atmosphere. (b) Good operating practices shall, at a minimum, include the following: (i) Provisions for training of operators on practices, procedures, and maintenance requirements that are consistent with the equipment manufacturers' recommendations and the source's experience in operating the equipment, with the training to include proper procedures for maintenance of air pollution control equipment; (ii) Maintenance of covers on containers and other vessels that contain VOC and VOC-containing materials when not in use; (iii) As practical, scheduling of operations to minimize color or material changes when applying VOC coatings or other materials by spray gun; (iv) For spray gun applications of coatings, use of high volume low pressure (HVLP) or other high efficiency application methods where practical; and

Table IV – 8	
	(v) As practical, mixing or blending materials containing VOC in closed containers and taking preventive measures to minimize emissions for products that contain VOC. (c) A person subject to this regulation shall: (i) Establish good operating practices in writing; (ii) Make the written operating practices available to the Department upon request; and (iii) Display the good operating practices so that they are clearly visible to the operator or include them in operator training. (3) Equipment Cleanup. (a) A person subject to this section shall take all reasonable precautions to prevent or minimize the discharge of VOC into the atmosphere when cleaning process and coating application equipment, including containers, vessels, tanks, lines, and pumps. (b) Reasonable precautions for equipment cleanup shall, at a minimum, include the following: (i) Storing all wastes and waste materials, including cloth and paper that are contaminated with VOC, in closed containers; (ii) Preparing written standard operating procedures for frequently cleaned equipment, including when practical, provisions for the use of low-VOC or non-VOC materials and procedures to minimize the quantity of VOC materials used; (iii) Using enclosed spray gun cleaning, VOC-recycling systems and other spray gun cleaning methods where practical that reduce or eliminate VOC emissions; and (iv) Using, when practical, detergents, high-pressure water, or other non-VOC cleaning options to clean coating lines, containers, and process equipment. (4) VOC Storage and Transfer. (a) A person subject to this section who stores VOCs shall, at a minimum, install conservation vents or other vapor control measures on storage tanks with a capacity of 2,000 gallons or more, to minimize VOC emissions. (b) A person subject to this section shall, at a minimum, utilize vapor balance, vapor control lines, or other vapor control measures when VOCs are transferred from a tank truck into a stationary storage tank with a capacity greater than 10,000 gallons and less than 40,000 gallons that store VOCs or materials containing VOCs, other than gasoline, that have a vapor pressure greater than 1.5 psia."

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	B. **COMAR 26.11.19.16B, C & D** - Control of VOC Equipment Leaks "Applicability. A person subject to any VOC emission standard or limitation established in this chapter and not otherwise subject to more specific VOC leak requirements of another regulation is subject to the requirements of this regulation. General Requirements. A person subject to this regulation shall comply with all of the following requirements: (1) Visually inspect all components on the premises for leaks at least once each calendar month. (2) Tag any leak immediately so that the tag is clearly visible. The tag shall be made of a material that will withstand any weather or corrosive conditions to which it may be normally exposed. The tag shall bear an identification number, the date the leak was discovered, and the name of the person who discovered the leak. The tag shall remain in place until the leak has been repaired. (3) Take immediate action to repair all observed VOC leaks that can be repaired within 48 hours. (4) Repair all other leaking components not later than 15 days after the leak is discovered. If a replacement part is needed, the part shall be ordered within 3 days after discovery of the leak, and the leak shall be repaired within 48 hours after receiving the part. (5) Maintain a supply of components or component parts that are recognized by the source to wear or corrode, or that otherwise need to be routinely replaced, such as seals, gaskets, packing, and pipe fittings. (6) Maintain a log that includes the name of the person conducting the inspection and the date on which leak inspections are made, the findings of the inspection, and a list of leaks by tag identification number. The log shall be made available to the Department upon request. Leak records shall be maintained for a period of not less than 2 years from the date of their occurrence. Exceptions. Components that cannot be repaired as required in this regulation because they are inaccessible, or that cannot be repaired during operation of the source, shall be identified in the log and included within the source's maintenance schedule for repair during the next source shutdown."
10.2	**Testing Requirements:** Control of VOC Emissions A. See Monitoring Requirements.

Table IV – 8	
	B. See Monitoring Requirements.
10.3	**Monitoring Requirements:** Control of VOC Emissions A. The Permittee shall conduct facility-wide inspections at least once per quarter to determine the compliance status of facility operations with regard to implementation of "good operating practices" designed to minimize emissions of VOC. **[Reference: COMAR 26.11.03.06C]** B. The Permittee shall visually inspect all components on the premises for VOC leaks at least once each calendar month following the procedures specified in COMAR 26.11.19.16. **[Reference: COMAR 26.11.19.16C(1)]**.
10.4	**Record Keeping Requirements:** **NOTE: All** records must be maintained for a period of 5 years. **[Reference: COMAR 26.11.03.06C(5)(g)]** Control of VOC Emissions A. The Permittee shall maintain: (1) Written descriptions of all "good operating practices" designed to minimize emissions of VOC from facility-wide operations. **[Reference: COMAR 26.11.19.02I]** (2) Records of all inspections conducted to determine the facility's compliance status with regard to implementation of "good operating practices" designed to minimize emissions of VOC from facility-wide operations. The records shall include for each inspection the name of the inspector, the date and time of the inspection, and an account of the findings. **[Reference: COMAR 26.11.03.06C]** B. The Permittee shall maintain a log that includes the name of the person conducting the inspection and the date on which leak inspections are made, the findings of the inspection, a list of leaks by tag identification number and identity of components that cannot be repaired as required in this regulation because they are inaccessible, or that cannot be repaired during operation if the source. The log shall be made available to the Department upon request. Leak records, along with the log shall be maintained for a period of not less than 2 years from the date of their occurrence. **[Reference: COMAR 26.11.03.06C]**.

Table IV – 8	
10.5	**Reporting Requirements:** Control of VOC Emissions A. Good operating practices information as required by COMAR 26.11.19.02I shall be made available to the Department upon request. B. Leak inspection logs as required by COMAR 26.11.19.16 shall be made available to the Department upon request.

"A permit shield shall cover the applicable requirements identified for the emissions unit(s) listed in the table above."

SECTION V INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

(1) No. 44 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;

[For Areas III and IV]

The *affected fuel burning units* are subject to the following requirements:

COMAR 26.11.09.05A(2), which establishes that the Permittee may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers.

Exceptions: COMAR 26.11.09.05A(2) does not apply to emissions during load changing, soot blowing, start-up, or adjustments or occasional cleaning of control equipment if:

(a) The visible emissions are not greater than 40 percent opacity; and

(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period.

[For Distillate Fuel Oil]

COMAR 26.11.09.07A(2)(b), which establishes that the Permittee may not burn, sell, or make available for sale any distillate fuel with a sulfur content by weight in excess of 0.3 percent.

See Table IV-4 for additional Requirements.

(2) No. 87 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The *affected units* are subject to the following requirements:

(A) COMAR 26.11.09.05E(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

(B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

(C) Exceptions:
(i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
(ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
(a) Engines that are idled continuously when not in service: 30 minutes
(b) all other engines: 15 minutes.
(iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.

(3) ✓ Space heaters utilizing direct heat transfer and used solely for comfort heat;

(4) ✓ Water cooling towers and water cooling ponds unless used for evaporative cooling of water from barometric jets or barometric condensers, or used in conjunction with an installation requiring a permit to operate;

(5) ✓ Commercial bakery ovens with a rated heat input capacity of less than 2,000,000 Btu per hour;

(6) ✓ Kilns used for firing ceramic ware, heated exclusively by natural gas, liquefied petroleum gas, electricity, or any combination of these;

(7) ✓ Confection cookers where the products are edible and intended for human consumption;

(8) ✓ Photographic process equipment used to reproduce an image upon sensitized material through the use of radiant energy;

(9) ✓ Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;

(10) ✓ Brazing, soldering, or welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals and not directly related to plant maintenance, upkeep and repair or maintenance shop activities;

(11) ✓ Equipment for washing or drying products fabricated from metal or glass, provided that no VOC is used in the process and that no oil or solid fuel is burned;

(12) Containers, reservoirs, or tanks used exclusively for:

(a) ✓ Storage of butane, propane, or liquefied petroleum, or natural gas;

(b) No. 365 Storage of lubricating oils;

(c) No. 394 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;

(d) No. 14 Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;

(13) ✓ Charbroilers and pit barbecues as defined in COMAR 26.11.18.01 with a total cooking area of 5 square feet (0.46 square meter) or less;

(14) ✓ First aid and emergency medical care provided at the facility, including related activities such as sterilization and

medicine preparation used in support of a manufacturing or production process;

(15) ✓ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;

(16) ✓ Firing and testing of military weapons and explosives;

(17) ✓ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;

(18) ✓ Laboratory fume hoods and vents;

For the following, attach additional pages as necessary:

(19) any other emissions unit, not listed in this section, with a potential to emit less than the "de minimus" levels listed in COMAR 26.11.02.10X (list and describe units):

No. 1 Building 6004 – Four (4) Paint Spray Booths used for miscellaneous metal coating

No. 1 Fire Safety Test Enclosure

any other emissions unit at the facility which is not subject to an applicable requirement of the Clean Air Act (list and describe):

No. 1 See Exempt Emission Unit List. (in the Table below).

Reference: Memorandum dated August 2, 1996 from John S. Seitz, Director of Office of Air Quality Planning and Standards (MD-10), Subject: Major Source Determination for Military Installations under the Air Toxics, New Source Review, and Title V Operating Permit Programs of the Clean Air Act.

Emission Unit No.	MDE Registration Number	Emission Unit Description	Facility Description
26-2379-A01	025-4-0619	Fuel oil boiler	Auto Craft Shop
26-2401-A01	025-0081-4-0619	Fuel oil boiler	PX

26-2502-A01 & A02	12-5-0152	Natural gas/No.2 fuel oil-fired boilers	Kirk Army Health Clinic
26-2522-A01	12-4-0619	Fuel Oil Boiler, 1.054 MMBtu/hr	Youth Center
26-3245-A01	025-0081-5-0152	Natural gas/No. 2 fuel oil-fired boiler	NEC
26-3300-A01	12-5-0152	Natural gas-fired Boiler	Physical Fitness Center (DFMWR)
26-3326-A02	025-0081-5-0152	Natural gas-fired boiler	Recreation Center (DFMWR)
26-3330-A01 & A02	12-5-0152	Natural gas-fired boilers	Gym (DFMWR)
26-3400-A02	12-5-0152	Natural gas boiler	Commissary (DECA)
35-2514-A01 through A03	12-9-0152	UST	AAFES Gas Station
99-2379-A01	12-6-0202	Vehicle Refinishing PSB	Auto Craft Shop

SECTION VI STATE-ONLY ENFORCEABLE CONDITIONS

The Permittee is subject to the following State-only enforceable requirements:

1. Applicable Regulations:
   (A) COMAR 26.11.06.08 – Nuisance. An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be consumed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution."

   (B) COMAR 26.11.06.09 - Odors. "A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created."

   (C) COMAR 26.11.15.05, which requires that the Permittee implement "Best Available Control Technology for Toxics" (T – BACT) to control emissions of toxic air pollutants.

   (D) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions will unreasonably endanger human health.

2. Record Keeping and Reporting:

   The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. The analysis shall include either:

   (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or

   (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

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BACKGROUND

The Aberdeen Proving Ground (APG) is a military installation for the testing of military equipment, laboratory research, and training. APG is divided into two distinct areas: the northern Aberdeen Area and the southern Edgewood Area. This Part 70 permit application is for the Aberdeen Area of APG. The regulated activities which produce air emissions at the Aberdeen Area include space heating, process and NSPS boilers, emergency generators, stationary engines, paint spray booths, and underground storage tanks. The applicable primary SIC code is 9711.

The following table summarizes the actual emissions from APG-Aberdeen Area based on its Annual Emission Certification Reports:

Actual Emissions

Year	NO_X (TPY)	SO_X (TPY)	PM_{10} (TPY)	CO (TPY)	VOC (TPY)	Total HAP (TPY)
2019	35.63	1.43	2.00	19.45	1.63	0.372
2020	41.82	1.75	0.78	18.64	2.48	0.106
2021	33.65	1.50	0.59	18.90	2.66	0.347
2022	27.66	1.26	0.49	14.30	2.25	0.347
2023	42.66	2.51	1.08	21.99	4.80	2.25
2024	29.81	1.25	0.50	17.14	2.12	1.26

The major source threshold for triggering Title V permitting requirements in Harford County is 25 tons per year for VOC, 25 tons for NO_X, and 100 tons per year for any other criteria pollutants and 10 tons for a single HAP or 25 tons per year for total HAPs. Since the actual NO_X from the facility are greater than the major source threshold, APG-Aberdeen Area is required to obtain a Title V – Part 70 Operating Permit under COMAR 26.11.03.01.

On January 2, 2024 the Department received APG-Aberdeen Area's Part 70 renewal permit application. An administrative completeness review was conducted, and the application was deemed to be administratively complete. A completeness determination letter was sent to APG-Aberdeen Area on January 2, 2024, granting APG-Aberdeen Area an application shield.

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CHANGES AND MODIFICATIONS TO THE PART 70 OPERATING PERMIT

The following changes and/or modifications have been incorporated into the renewal Title V – Part 70 Operating Permit for APG-Aberdeen Area:

Equipment Removed/Replaced

Emission Unit No.	MDE – ARA Registration No.	Comments
0390-A01	12-4-0619	One (1) No. 2 fuel oil fired boiler rated at 2.960 million Btu per hour heat input
0400-A01	12-4-0546N	One (1) No. 2 fuel oil fired boiler rated at 1.827 million Btu per hour heat input
745A-A01	12-4-0619	One (1) Bryan No. 2 fuel oil fired boiler rated at 1.68 million Btu per hour heat input
Bldg. 413	N/A	630-hp diesel fired emergency generator
36-02353-A01	12-6-0207	One (1) automotive and equipment refinishing booth
07-0525-A01	12-9-0216	One (1) Intermediate Firing and Environmental Laboratory (formerly fire test lab) used for indoor fire and flammability testing of materials.
Bldg. 4603	25-0081-4-0692	Atmospheric Burner at HESATF. Move to insignificant activity list.

Equipment added

Emission Unit No.	MDE – ARA Registration No.	Comments
0383A-A01 & 0383A-A02	5-0376	Two (2) Cleaver Brooks natural gas fired boilers, each rated at 3.347 MMBtu/hr.
0400-A02 & 0400-A03	5-0384	Two (2) Cleaver Brooks natural gas fired boilers, each rated at 1.673 MMBtu/hr.
3511-A01 & 3511-A02	9-0539 & 9-0540	Two (2) MTU 16V4000G84Fdiesel-fired emergency generators, each rated at 2970 horsepower.

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Equipment Reclassified:

Emission Unit No.	MDE – ARA Registration No.	Comments
Atmospheric Burner at HESATF	25-0081-4-0692	Moved to insignificant activities. This is a bench scale process.
26-0896-A01	12-4-0619	The unit is incorrectly classified as a 1.5 MMBtu 40 CFR Part 63 Subpart JJJJJJ Boiler. The unit is actually a radiant tube space heater. Since the unit is a radiant tube space heater and not a boiler, it is not subject to Subpart JJJJJJ by definition.

MACT and NSPS

APG-Aberdeen Area is a minor source of HAPs and is subject to the following area source MACT standards (40 CFR Part 63):

1. Subpart JJJJJJ—National Emission Standards for Hazardous Air Pollutants: Industrial, Commercial, and Institutional Boilers Area Sources.
2. Subpart ZZZZ—National Emission Standards for Hazardous Air Pollutants: Reciprocating Internal Combustion Engines.

APG-Aberdeen Area is subject to the following New Source Performance Standards (NSPS) (40 CFR Part 60),

1. Subpart Dc—Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
2. Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

APG-Aberdeen Area is also subject to the NOx Reasonably Available Control Technology (RACT) requirements.

Compliance Assurance Monitoring (CAM) Requirement.

APG-Aberdeen Area conducted a Compliance Assurance Monitoring (CAM) analysis for the facility and determined that the facility is not subject to the (CAM) Rule 40 CFR Subpart 64.

CAM is intended to provide a reasonable assurance of compliance with applicable requirements under the Clean Air Act for large emission units that rely on air pollution control (APC) equipment to achieve compliance. The CAM approach establishes monitoring for the purpose of: (1) documenting continued operation of the control measures within ranges of specified indicators of performance (such as emissions, control device parameters, and process parameters) that are designed to provide a reasonable assurance of compliance with applicable requirements; (2) indicating any excursions from these ranges; and (3) responding to the data so that the cause or causes of the excursions are corrected. In order for a unit to be subject to CAM, the unit must be located at a major source, be subject to an emission limitation or standard; use a control device to achieve compliance; have post-control emissions of at least 100% of the major source amount (for initial CAM submittals); and must not otherwise be exempt from CAM. Applicability determinations are made on a pollutant-by-pollutant basis for each emission unit.

GREENHOUSE GAS (GHG) EMISSIONS

APG-Aberdeen Area emits the following greenhouse gases (GHGs) related to Clean Air Act requirements: carbon dioxide, methane, and nitrous oxide. These GHGs originate from various processes (i.e., internal combustion engines and boilers) contained within the facility premises applicable to APG-Aberdeen Area. The facility has not triggered Prevention of Significant Deterioration (PSD) requirements for GHG emissions; therefore, there are no applicable GHG Clean Air Act requirements. While there may be no applicable requirements as a result of PSD, emission certifications reports for the years 2021, 2022, and 2023, showed that APG-Aberdeen Area is not a major source (threshold: 100,000 tpy CO_2e) for GHG's (see Table 3 shown below). The Permittee shall quantify facility wide GHGs emissions and report them in accordance with Section 3 of the Part 70 permit.

The following table summarizes the actual emissions from APG-Aberdeen Area based on its Annual Emission Certification Reports:

Greenhouse Gases Emissions Summary

GHG	Conversion factor	2021 tpy CO_2e	2022 tpy CO_2e	2023 tpy CO_2e
Carbon dioxide CO_2	1	21,597	18,227	30,792
Methane CH_4	25	0.23	0.23	0.33
Nitrous Oxide N_2O	298	0.22	0.22	0.37
Total GHG CO_{2eq}		**21,668**	**18,298**	**30,911**

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EMISSION UNIT IDENTIFICATION

APG-Aberdeen Area has identified the following emission units as being subject to Title V permitting requirements and having applicable requirements.

Emission Unit Identification

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
Space Heating Boilers			
Miscellaneous – Consolidated oil-fired	4-0619	Consolidated Oil-fired boilers rated between 1-10 million Btu per hour heat input.	Various
0642-A01	4-0689	One (1) Burnham PV910 No. 2 fuel oil fired boiler rated at 1.848-MMBtu/hr.	2009
0445-A01	4-0707	One (1) Burnham No. 2 fuel oil fired boiler rated at 1.116 million Btu per hour heat input	2013
0394-A01	4-0708	One (1) Smith No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2010
0339-A01	4-0710	One (1) Peerless No. 2 fuel oil fired boiler rated at 1.672 MMBtu per hour heat input	2009
0507-A05	4-0717	One (1) Cleaver Brooks No. 2 fuel oil fired boiler rated at 6.70 million Btu per hour heat input	2016
0507-A04	4-0104	One (1) Cleaver Brooks No. 2 fuel oil fired boiler rated at 8.164 million Btu per hour heat input	1997
0643-A01	4-0721	One (1) Cleaver Brooks No. 2 fuel oil fired boiler rated at 1.143 million Btu per hour heat input	2016
0688-A01	4-0720	One (1) Burnham No. 2 fuel oil fired boiler rated at 1.713 million Btu per hour heat input	2016
0670-A01	4-0719	One (1) Bryan No. 2 fuel oil fired boiler rated at 2.088 million Btu per hour heat input	2016

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Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
26-0449-A01	4-0722	One (1) HB Smith Cast Iron Fuel oil fired boiler, rated at 2.088-MMBtu/hr. located Bldg. A0449	2016
906C-A01	4-0724	One (1) Weil McLain fuel oil fired boiler, rated at 1.23-MMBtu/hr.	2018
Miscellaneous – Consolidated natural gas	5-0152	Consolidated natural gas-fired boilers rated between 1-10 million Btu per hour heat input.	Various
26-6007-C2CNT West-A01 thru A04	5-0298	Four (4) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input	2009
26-6006-GMS Tower-A01 thru A03	5-0299	Three (3) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input and equipped with low NO_x burners	2009
26-6002-HQ Building-A01 thru A05	5-0300	Five (5) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input	2009
26-6003-GMS Lab-A01 thru A03	5-0301	Three (3) Bryan natural gas/No. 2 fuel oil fired boilers each rated at 3.5 million Btu per hour heat input	2009
5100-A01 & A02	5-0309 & 5-0310	Two (2) natural gas fired boilers each rated at 3.00 million Btu per hour heat input	2010
26-0525-A02	5-0315	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.17 million Btu per hour heat input	2010
26-3660-A01	5-0318	One (1) natural gas/No. 2 fuel oil fired boiler rated at 1.83-MMBtu/hr.	2019
2202-A01 & A02	5-0322	Two (2) Harsco Kelly natural gas fired boilers each rated at 2.00 million Btu per hour heat input	2010
26-0525-A03	5-0334	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.37 million Btu per hour heat input	1985

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
26-0525-A01	5-0335	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.37 million Btu per hour heat input	1985
26-04119-A03	5-0336	One (1) Cleaver Brooks natural gas fired boiler rated at 8.165 MMBtu/hr.	2014
26-0459-A02	5-0337	One(1) Cleaver Brooks, Model CB200-50-30-HW natural gas-fired boiler rated at 2.095 million Btu per hour heat input located at building 0459	2011
26-367-A01	5-0352	Camus DR-1000 Propane fired boiler (Bldg. 367-ARL/AMSSA Compound). General Permit issued May 6, 2014	2014
26-2485-A01	5-0367	One (1) Harsco Patterson-Kelly natural gas fired boiler rated at 2.0-MMBtu/hr.	2016
3660-A01	5-0371	One (1) RBI Futera Fusion natural gas fired boiler rated at 2.50 million Btu per hour heat input	2016
0383A-A01 & -A02	5-0376	Two (2) Cleaver Brooks natural gas fired boilers, each rated at 3.347-MMBtu/hr.	2017
5046-A01 thru A03	5-0377	Three (3) Camus natural gas fired boilers, each rated at 1.50-MMBtu/hr.	2018
2522-A01	5-0378	GP- small fuel burning - Bldg. 2522	2019
26-0400-A02 & -A03	5-0384	Two (2) Cleaver Brooks natural gas fired boilers, each rated at 1.69-MMBtu/hr.	2020
NSPS Boilers			
26-0345-A01 &A02	5-0079 & 5-0080	Two (2) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers, each rated at 64 million Btu per hour heat input	1994
26-0345-A03	5-0081	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 23.4 million Btu per hour heat input	1996
26-4600-A06 & A08	5-0085 & 5-0087	Two (2) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers each rated at 21 million Btu per hour heat input.	1995

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Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
26-5014-A01 & A02	5-0164 & 5-0165	Two (2) H.B. Smith natural gas/No. 2 fuel oil fired boilers each rated at 13.5 million Btu per hour heat input.	1991
26-4600-A09	5-0370	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers each rated at 20.13 million Btu per hour heat input.	2016
Process Boilers			
26-4219-A02	4-0522N	One (1) Cleaver Brooks oil-fired boiler rated at 8.4 million BTU per hour	1994
26-4219-A03	5-0308	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 8.165 million Btu per hour heat input	2009
26-04312-A01 & A02	5-0364	Two (2) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers each rated at 4.18 million Btu per hour heat input	2015
26-3062-A02	5-0378	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 12.5 million Btu per hour heat input	2009
26-4404-A04	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.70-MMBtu/hr.	1999
4404-A06		One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.17-MMBtu/hr.	2012
Spray Booth			
07-0525-A04 & A06	6-0162 & 6-0159	Two (2) custom made cross draft paint spray booths	1960
Generators			
03-0328-A01	9-0229	One (1) emergency generator rated at 1072 bhp	1997
03-0394-A01 & A02	9-0227 & 9-0228	Two (2) emergency generators each rated at 1341 bhp	1997
03-4600-A04 & A05	9-0276 & 9-0277	Two (2) emergency generators each rated at 1877 bhp at ARL Materials Research Lab	1996
03-0394-A03 thru A07	9-0386 thru 9-0390	Five (5) Cummins emergency generator sets each rated at 750 bhp (500-kW) located in Bldg. 394-ARL Compound.	2008

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
26-6003-GMS Lab-A04	9-0393	One (1) 2500 kW (3778 bhp) Cummins diesel emergency generator set (Tier I certified) to be located at C4ISR-Research and Development – GMS Lab Building.	2009
26-6007-C2CNT West-A05	9-0394	One (1) 1500 kW (2200 bhp) Cummins diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – C2CNT West Building	2008
26-6006-GMS Tower-A04	9-0395	One (1) 1500 kW (2200 bhp) Cummins diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – GMS Tower Building	2008
26-6002-HQ Building-A06	9-0396	One (1) 2000 kW (2922 bhp) Cummins diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – HQ Building 2 and serves both HQ Building 1 & HQ Building 2.	2008
0120-A01	9-0408	One (1) Cummins emergency generator rated at 2922 bhp	2012
0316-A01	9-0409	One (1) Cummins emergency generator rated at 2000-kW located at Bldg. 316	2012
3090-JSEC-01	9-0410	One (1) emergency generator rated at 2000-kW	2010
26-6010-C2CNT-East	9-0411	Two (2) emergency generator sets each rated at 2000-kW	2010
6009-C2CNT East SEC	9-0412	One (1) emergency generator rated at 2000-kW	2010
0328-A02	09-0414	One (1) emergency generator rated at 761 bhp	2006
0328-A03	9-0418	One (1) Detroit emergency generator rated at 804 bhp	2006

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
0311-A1	9-0419	One (1) emergency generator rated at 447 kW (600 brake horsepower)	1986
0120-A02	9-0433	One (1) Cummins emergency generator rated at 2922 bhp	2012
0120-A03	9-0434	One (1) Cummins emergency generator rated at 2922 bhp	2012
3147-A01	9-0491	One (1) Katolight diesel fired emergency generator rated at 500-kW (670-bhp)	2015
2202-A01	9-0499	One (1) emergency generator rated at 755 bhp	2015
3660-A01	9-0500	One (1) Kohler diesel fired emergency generator rated at 643-bhp	1995
0120-A04	9-0503	One (1) Cummins emergency generator rated at 2922 bhp	2017
0120-A05	9-0504	One (1) Cummins emergency generator rated at 2922 bhp	2016
5016-A01	9-0510	One (1) Cummins emergency generator rated at 2346 bhp	2017
5046-A01	9-0509	One (1) Cummins emergency generator rated at 617 bhp	2017
3511-A01 & A02	9-0539 & 9-540	Two (2) MTU 16V4000G84F diesel fired emergency generator sets, each rated at 2970-hp. PTC issued 2/27/2024	2024
0436-A01	9-0548	One (1) MTU 8V1600DS400 diesel fired emergency generator set rated at 460-kW, Bldg. 463.(Tier III). GP issued 4/30/2025	2025
Non-Emergency Generators			
BSS-01	9-0435	One (1) Detroit non-emergency generator rated at 600 bhp	2001
LWE-01 through LWE-05	9-0436	Five (5) Detroit non-emergency generators each rated at 550 bhp	2006
UTF-01	9-0437	One (1) Cummins non-emergency generator rated at 500 bhp	1993

Emissions Unit Number	MDE-ARA Registration Number	Emissions Unit Name and Description	Date of Installation
Miscellaneous			
26-4029-A03 & A05	12-9-0152	Two (2) 20,000-gallon underground storage tanks equipped with Stage I vapor recovery systems	1993
07-00P17-A01	12-9-0212	One (1) Fire Safety Test Enclosure facility	September 1997

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AN OVERVIEW OF THE PART 70 PERMIT

The Fact Sheet is an informational document. If there are any discrepancies between the Fact Sheet and the Part 70 permit, the Part 70 permit is the enforceable document.

Section I of the Part 70 Permit contains a brief description of the facility and an inventory list of the emissions units for which applicable requirements are identified in Section IV of the permit.

Section II of the Part 70 Permit contains the general requirements that relate to administrative permit actions. This section includes the procedures for renewing, amending, reopening, and transferring permits, the relationship to permits to construct and approvals, and the general duty to provide information and to comply with all applicable requirements.

Section III of the Part 70 Permit contains the general requirements for testing, record keeping and reporting; and requirements that affect the facility as a whole, such as open burning, air pollution episodes, particulate matter from construction and demolition activities, asbestos provisions, ozone depleting substance provisions, general conformity, and acid rain permit. This section includes the requirement to report excess emissions and deviations, to submit an annual emissions certification report and an annual compliance certification report, and results of sampling and testing.

Section IV of the Part 70 Permit identifies the emissions standards, emissions limitations, operational limitations, and work practices applicable to each emissions unit located at the facility. For each standard, limitation, and work practice, the permit identifies the basis upon which the Permittee will demonstrate compliance. The basis will include testing, monitoring, record keeping, and reporting requirements. The demonstration may include one or more of these methods.

Section V of the Part 70 Permit contains a list of insignificant activities. These activities emit very small quantities of regulated air pollutants and do not require a permit to construct or registration with the Department. For insignificant activities that are subject to a requirement under the Clean Air Act, the requirement is listed under the activity.

Section VI of the Part 70 Permit contains State-only enforceable requirements. Section VI identifies requirements that are not based on the Clean Air Act, but

solely on Maryland air pollution regulations. These requirements generally relate to the prevention of nuisances and implementation of Maryland's Air Toxics Program.

REGULATORY REVIEW/TECHNICAL REVIEW/COMPLIANCE METHODOLOGY

Emission Unit: Space heater boilers: Boilers less than 10 million Btu per hour heat input and used as space heaters.

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0030-A01 & 0030-A02	4-0619	Two (2) No. 2 fuel oil fired boilers each rated at 2.1 million Btu per hour heat input	2012
0045-A01		One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input	2013
0269C-A01		One (1) No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2016
0280B-A01		One (1) No. 2 fuel oil fired boiler rated at 1.458 million Btu per hour heat input	2016
0322-A01		One (1) No. 2 fuel oil fired boiler rated at 2.07 million Btu per hour heat input	2013
0384-A01		One (1) No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2016
0402-A03		One (1) No. 2 fuel oil fired boiler rated at 3.200 million Btu per hour heat input	1985
0439-A01		One (1) No. 2 fuel oil fired boiler rated at 1.054 million Btu per hour heat input	
0456-A01		One (1) No. 2 fuel oil fired boiler rated 1.400 million Btu per hour heat input	2004
26-0699A-A01		One (1) No. 2 fuel oil fired boiler rated at 4.2 million Btu per hour heat input	2016
26-0700-A1		One (1) No. 2 fuel oil fired boiler rated at 3.347 million Btu per hour heat input	1987
26-0702-A01		One (1) No. 2 fuel oil fired boiler rated at 1.25 million Btu per hour heat input.	2002

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0733A-A01		One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input.	2013
0740B-A01		One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input.	2006
0740C-A01		One (1) No. 2 fuel oil fired boiler rated at 1.987 million Btu per hour heat input.	2010
26-0860-A01	4-0619	One(1) No. 2 fuel oil fired boiler rated at 1.289 million Btu per hour heat input	2003
26-1064-A01		One(1) No. 2 fuel oil fired boiler rated at 3.36 million Btu per hour heat input	2009
26-1064-A02		One(1) No. 2 fuel oil fired boiler rated at 3.36 million Btu per hour heat input	2009
26-1100F-A01		One (1) No. 2 fuel oil fired boiler rated at 1.987 million Btu per hour heat input	1996
1134-A01		One (1) No. 2 fuel oil fired boiler rated at 1.340 million Btu per hour heat input.	2013
26-2184-A01		One (1) No. 2 fuel oil fired boiler rated at 1.116 million Btu per hour heat input	1983
26-2207-A03		One (1) No. 2 fuel oil fired boiler rated at 2.37 million Btu per hour heat input	1999
0383A-A01 & A02	5-0376	Two (2) Cleaver Brooks natural gas fired boilers each rated at 3.347 million Btu per hour hear input	2017
26-2312-A02	4-0619	One (1) No. 2 fuel oil fired boiler rated at 2.10 million Btu per hour heat input	2009
26-2377-A01		One (1) No. 2 fuel oil fired boiler rated at 2.37 million Btu per hour heat input	1987
26-2377-A02		One (1) No. 2 fuel oil fired boiler rated at 1.26 million Btu per hour heat input	2009
3070-A01		One (1) No. 2 fuel oil fired boiler rated at 8.165 million Btu per hour heat input	2004
26-3011-A01		One (1) No. 2 fuel oil fired boiler rated at 1.110 million Btu per hour heat input	2005
26-4725		One (1) No. 2 fuel oil-fired boiler rated at 1.821 million Btu per hour heat input	

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-4728-A02		One (1) natural gas/No. 2 fuel oil fired boiler rated at 2.7 million Btu per hour heat input	2016
26-2485-A01	5-0367	One (1) natural gas-fired boiler rated at 2.00 million Btu per hour heat input	2017
26-5046-A01 thru A03	5-0377	Three (3) natural gas-fired boilers rated at 1.50 million Btu per hour heat input	2018
0445-A01	4-0707	One (1) No. 2 fuel oil fired boiler rated at 1.116 million Btu per hour heat input	2013
0394-A01	4-0708	One (1) No. 2 fuel oil fired boiler rated at 2.718 million Btu per hour heat input	2010
0339-A01	4-0710	One (1) No. 2 fuel oil fired boiler rated at 2.06 million Btu per hour heat input	2009
0507-A05	4-0717	One (1) No. 2 fuel oil fired boiler rated at 6.70 million Btu per hour heat input	2016
0507-A04	4-0104	One (1) No. 2 fuel oil fired boiler rated at 8.164 million Btu per hour heat input	1997
0642-A01	4-0689	One (1) No. 2 fuel oil fired boiler rated at 1.900 million Btu per hour heat input	2009
0643-A01	4-0721	One (1) No. 2 fuel oil fired boiler rated at 1.143 million Btu per hour heat input	2016
0644-A01	4-0619	One (1) No. 2 fuel oil fired boiler rated at 1.160 million Btu per hour heat input	2006
0688-A01	4-0720	One (1) No. 2 fuel oil fired boiler rated at 1.73 million Btu per hour heat input	2016
0670-A01	4-0719	One (1) No. 2 fuel oil fired boiler rated at 2.088 million Btu per hour heat input	2016
5116-A01	4-0619	One (1) No. 2 fuel oil fired boiler rated at 1.680 million Btu per hour heat input	2011
26-0120-A01 & A02	5-0152	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 2.51 million Btu per hour heat input	2008
26-0402-A01 & A02	5-0152	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 3.27 million Btu per hour heat input	1996

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-0436-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 2.5 million Btu per hour heat input	2016
26-0436 A02	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 2.200 million Btu per hour heat input	1995
26-0449-A01	4-0722	One (1) No. 2 fuel oil fired boiler rated at 2.088 million Btu per hour heat input	2016
26-0455-A01 & A02	5-0152	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 8.37 million Btu per hour heat input	1990
26-0459-A02	5-0337	One (1) natural gas fired boiler rated at 2.10 million Btu per hour heat input	2011
26-0525-A01 & A03	5-0335 & 5-0334	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 8.37 million Btu per hour heat input	1985
26-0525-A02	5-0315	One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.17 million Btu per hour heat input	2010
26-2312-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 5.100 million Btu per hour heat input and equipped with low NO_x burners.	1996
26-2352-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.28 million Btu per hour heat input	1998
906C-A01	4-0724	One (1) Weil-McLain fuel oil fired boiler rated at 1.23 million Btu per hour heat input	2018
26-3062-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.12 million Btu per hour heat input	2011
26-4304-A02	5-0152	One (1) natural gas-fired boiler rated at 3.0 million Btu per hour heat input	2015

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-4727-A01	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 4.0 million Btu per hour heat input	2016
26-5014-A03	5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 7.500 million Btu per hour heat input	1991
26-6007-C2CNT West-A01 through A04	5-0298	Four (4) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input	2009
26-6006-GMS Tower-A01 thru A03	5-0299	Three (3) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input and equipped with low NO_X burners	2009
26-6002-HQ Building-A01 thru A05	5-0300	Five (5) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input	2009
26-6003-GMS Lab-A01 thru A03	5-0301	Three (3) natural gas/No. 2 fuel oil fired boilers each rated at 3.500 million Btu per hour heat input	2009
2202-A01 & 2202-A02	5-0322	Two (2) natural gas fired boilers each rated at 2.000 million Btu per hour heat input	2010
3144-A01	5-0152	One (1) natural gas fired boiler rated at 4.81 million Btu per hour heat input	2012
26-3660-A01	5-0371	One (1) natural gas fired boiler rated at 2.50 million Btu per hour heat input	2016
26-04119-A02	5-0152	One (1) Cleaver Brooks dual-fired boiler rated at 8.165 million Btu per hour heat input	1994
26-04119-A03	5-0336	One (1) natural gas fired boiler rated at 8.17 million Btu per hour heat input	2014
5100-A01 & 5100-A02	5-0309 & 5-0310	Two (2) natural gas fired boilers each rated at 3.000 million Btu per hour heat input	2010

SPACE HEATER BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-367-A01	5-0352	Camus DR-1000 Propane fired boiler (Bldg. 367-ARL/AMSSA Compound) General Permit issued May 6, 2014	2014
26-0400-A02 & A03	5-0384	Two (2) natural gas fired boilers each rated at 1.69 million Btu per hour heat input	2020

Compliance Status
Full Compliance inspection on August 22, 2022: No visible emissions were detected at the time of the inspection. APG certifies semi-annually that their fuel content is less than 0.3 wt%. APG-AA submits a certification from the oil supplier with each semi-annual report. Operations manuals and preventative maintenance plans, Operator training records &maintenance records, and combustion testing are maintained at building 345.

Applicable Standards and limits
A. Control of Visible Emissions
COMAR 26.11.09.05A – Fuel Burning Equipment
"(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.
(3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:
(a) The visible emissions are not greater than 40 percent opacity; and
(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."

Compliance Demonstration
No periodic monitoring for opacity is required for these very small boilers. The Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions. The Permittee shall maintain operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance

performed that relates to combustion performance. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations".

Rationale for Periodic Monitoring: Boilers that burn natural gas or No. 2 fuel oil with a rated heat input capacity of less than 10 MM Btu/hr typically never have visible emissions if properly operated and maintained. Boilers in this size range are set up to operate in an automatic mode without oversight of an operator. The completion of annual preventative maintenance as recommended by the boiler manufacturer, focusing on combustion performance, is sufficient to maintain compliance with the no visible emissions requirement. Even though there is not a specific schedule to perform observations of the stack emissions, the Permittee is required under the general reporting requirement for excess emissions and deviations to report incidents when visible emissions are visible.

Condition B applies to No. 2 oil-fired boilers only

B. Control of Sulfur Oxide Emissions

COMAR 26.11.09.07A(2) - Sulfur Content Limitations for Fuel.

"A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (b) Distillate fuel oils, 0.3 percent."

Compliance Demonstration

The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of the fuel oil. The Permittee shall maintain records of fuel supplier's certification and shall make records available to the Department upon request. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall report fuel supplier certification to the Department upon request. **[Reference: COMAR 26.11.09.07C]**.

Rationale for Periodic Monitoring: The strategy for the compliance demonstration is based on the compliance demonstration for NSPS Subpart Dc boilers that burn fuel oil.

C. Control of Nitrogen Oxide Emissions

COMAR 26.11.09.08B(5) - Operator Training.

(a) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation.

(b) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department."

COMAR 26.11.09.08F - Requirements for Space Heaters.

"(1) A person who owns or operates a space heater as defined in Regulation .01B of this chapter shall:

(a) Submit to the Department a list of each affected installation on the premises and the types of fuel used in each installation;

(b) Develop an operating and maintenance plan to minimize NOx emissions based on the recommendations of equipment vendors and other information including the source's operating and maintenance experience;

(c) Implement the operating and maintenance plan and maintain the plan at the premises for review upon request by the Department;

(d) Require installation operators to attend in-State operator training programs once every 3 years on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and

(e) Prepare and maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request.

(2) A person who owns or operates an installation that no longer qualifies as a space heater shall inform the Department not later than 60 days after the date when the fuel-burning equipment did not qualify, and shall meet the applicable fuel-burning equipment RACT requirement in this regulation."

Compliance Demonstration

The Permittee shall develop and maintain an operating and maintenance plan to minimize NOx. **[Reference: COMAR 26.11.09.08F(1)(b)]**. The Permittee shall maintain: Records of maintenance performed that relates to combustion performance in keeping with the requirements of an operations and maintenance plan. **[Reference: COMAR 26.11.09.08F(1)(c)]**. Record of training program attendance for each operator. **[Reference: COMAR 26.11.09.08F(1)(e)]**. An operations manual and preventive maintenance plan. **[Reference: COMAR 26.11.09.08F(1)(b)]**. Records of fuel use that demonstrate that the boiler meets the definition of a space heater. **[Reference: COMAR 26.11.09.08K(3) and COMAR 26.11.03.06C]**. The Permittee shall submit: a record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08F(1)(e)]**

D. Operational Limits

[Reference: MDE Reg. No. 025-0081-5-0298 thru 5-0301 issued October 2009)

(1) The boilers equipped with low NOx burners not to exceed 30ppm shall only burn natural gas or No.2 fuel oil.

(2) The boilers shall not burn any No.2 fuel oil with sulfur content greater than 0.3% by weight.

(3) For the purpose of maintaining synthetic minor status for the C4ISR-Research and Development Facility, the combined NO_X emissions from the all fuel burning equipment (boilers and generators) at the facility must be less than 25 tons in any rolling 12-month period.

(4) The total fuel oil and natural gas usage for the fifteen (15) boilers shall not exceed the following limits unless the Permittee can demonstrate, to the satisfaction of the Department, that the NO_X emissions for the C4ISR-Research and Development Facility are less than 25 tons in any rolling 12-month period at a higher usage rate:

MDE PTC No.	Location	Proposed Limit		Quantity and Size
		Natural gas (ft^3/yr)	No. 2 fuel oil (gallons)	
025-0081-5-0298	C2CNT West Building	82,355,000	160,000	Four (4) 3.5 MMBtu/hr boilers
025-0081-5-0299	GMS Tower Building	61,765,000	120,000	Three (3) 3.5 MMBtu/hr boilers
025-0081-5-0300	HQ Building 1	102,942,000	200,000	Five (5) 3.5 MMBtu/hr boilers
025-0081-5-0301	GMS Lab Building	61,765,000	120,000	Three (3) 3.5 MMBtu/hr boilers

Compliance Demonstration

The Permittee shall calculate the NO_X emissions for the previous calendar month and a total for the previous 12 consecutive months for the C4ISR-R&D facility. The calculations shall be updated monthly within 30 days of each following month. **(Reference: MDE Reg. No. 025-0081-5-0298 thru 5-0301 issued July 16, 2009, Part E, Condition 2)**

The Permittee shall maintain on site and make available to the Department upon request, records of the monthly and rolling 12-month total natural gas in million cubic feet and the No. 2 fuel oil usage in gallons. **(Reference: MDE Reg. No. 025-0081-5-0298 thru 5-0301 issued July 16, 2009, Part E, Condition 1)**

The Permittee shall keep records of the NO_x emissions for each calendar month and update them monthly with 30 days of each following month. **(Reference: MDE Reg. No. 025-0081-5-0298 thru 5-0301 issued July 16, 2009, Part E, Condition 2)**

The Permittee shall report fuel consumption to the Department upon request. The Permittee shall submit the records to the Department as part of the semi-annual report. **(Reference: COMAR 26.11.03.06C)**

Emission Unit: Process Boilers.

PROCESS BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-03062-A02	5-0167	One (1) natural gas/No. 2 fuel oil fired boiler rated at 12.2 million Btu per hour heat input	2009
26-4219-A02	4-0522N	One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.37 million Btu per hour heat input	1994
26-04219-A03	12-5-0308	One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.165 million Btu per hour heat input	2009
26-04312-A01 & A02	025-0081-5-0364	Two (2) natural gas/No. 2 fuel oil fired boilers each rated at 4.18 million Btu per hour heat input	2015
26-04404-A04	12-5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 6.695 million Btu per hour heat input	1999
4404-A06	12-5-0152	One (1) natural gas/No. 2 fuel oil fired boiler rated at 8.165million Btu per hour heat input	2012

Compliance Status:
Full Compliance inspection on August 22, 2022: No visible emissions were detected at the time of the inspection. The APG Aberdeen Area certifies in their ACOMP that periodic observations are performed, and annual Method 9 survey is performed. The APG Aberdeen Area did not report any incidents when visible emissions were observed.

The fuel oil records are maintained by the APG Aberdeen Area's DPW-Environmental. Certification from their fuel supplier states that the fuel oil received meets the sulfur limits specifications for distillate fuel and does not exceed 0.3% sulfur by weight. The APG Aberdeen Area supplies fuel sulfur content information to MDE in its semi-annual NSPS report.

The APG Aberdeen Area does perform boiler operator training as require by their Title V operating permit. The most recent boiler operator training was performed in May 2023.

The APG Aberdeen Area does perform annual combustion analysis on the boilers as required by their Title V operating permit.

Applicable Standards and limits

A. Control of Visible Emissions

COMAR 26.11.09.05A – Fuel Burning Equipment

"(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.

(3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:

(a) The visible emissions are not greater than 40 percent opacity; and

(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."

Compliance Demonstration:

The Permittee shall: (1) Properly operate and maintain the boilers in a manner to prevent visible emissions; and (2) Verify no visible emissions when burning No. 2 fuel oil. The Permittee shall perform a visual observation for a 6-minute period once for each 168 hours that the boiler burns oil or at a minimum of once per year. The Permittee shall perform the following, if emissions are visible: (1) Inspect combustion control system and boiler operations, (2) Perform all necessary adjustments and/or repairs to the boiler within 48 hours, so that visible emissions are eliminated; (3) Document in writing the results of the inspections, adjustments and/or repairs to the boiler; and (4) After 48 hours, if the required adjustments and/or repairs had not eliminated the visible emissions, perform

Method 9 observations once daily for 18 minutes until corrective actions have eliminated the visible emissions. The Permittee shall: (1) Maintain an operation manual and prevention maintenance plan on site; (2) Maintain a record of the maintenance preformed that relates to combustion performance; (3) Maintain a log of visible emissions observations performed and make it available to the Department's representative upon request; (4) Maintain a record of the hours that No. 2 fuel oil is burned. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations".

B. Control of Sulfur Oxide Emissions
COMAR 26.11.09.07A(2) - Sulfur Content Limitations for Fuel.
"A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (b) Distillate fuel oils, 0.3 percent."

Compliance Demonstration:
The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of the fuel oil. The Permittee shall maintain records of fuel supplier's certification and shall make records available to the Department upon request. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall report fuel supplier certification to the Department upon request **[Reference: COMAR 26.11.09.07C]**.

C. Control of Nitrogen Oxide Emissions
COMAR 26.11.09.08B(5) - Operator Training.
(a) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation.
(b) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department."
COMAR 26.11.09.08E. - Requirements for Fuel-Burning Equipment with a Rated Heat Input Capacity of 100 Million Btu Per Hour or Less. "A person who owns or operates fuel-burning equipment with a rated heat input capacity of 100 Million Btu per hour or less shall:
(1) Submit to the Department an identification of each affected installation, the rated heat input capacity of each installation, and the type of fuel burned in each;
(2) Perform a combustion analysis for each installation at least once each year and optimize combustion based on the analysis;

(3) Maintain the results of the combustion analysis at the site for at least 2 years and make this data available to the Department and the EPA upon request;
(4) Once every 3 years, require each operator of the installation to attend operator training programs on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and
(5) Prepare and maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request."

Compliance Demonstration:
The Permittee shall perform a combustion analysis once a year. **[Reference: COMAR 26.11.09.08E(2)]** The Permittee shall optimize combustion based on the annual combustion analysis. **[Reference: COMAR 26.11.09.08E(2)]**
The Permittee shall maintain: (1) Records of the results of the annual combustion analysis on site. **[Reference: COMAR 26.11.09.08E(5)].** (2) Record of training program attendance for each operator at the site. **[Reference: COMAR 26.11.09.08E(5)].** The Permittee shall submit: (1) The results of combustion analysis to the department and the EPA upon request. **[Reference: COMAR 26.11.09.08E(3)]** (2) A record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08E(5)].**

Emission Unit: - NSPS Boilers

NSPS Process BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-0345-A01 & A02	12-5-0079 & 12-5-0080	Two (2) Cleaver Brooks natural gas/No. 2 fuel oil fired boilers each rated at 63.80 million Btu per hour heat input	1994
26-0345-A03	12-5-0081	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 23.4 million Btu per hour heat input	1996
26-4600-A06	12-5-0085	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 21.0 million Btu per hour heat input	1995
26-4600-A09	025-0081-5-0370	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 20.13 million Btu per hour heat input	2016

NSPS Process BOILERS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-4600-A08	12-5-0087	One (1) Cleaver Brooks natural gas/No. 2 fuel oil fired boiler rated at 21.0 million Btu per hour heat input	1995
26-5014-A01 & A02	12-5-0164 & 12-5-0165	Two (2) H.B. Smith natural gas/No. 2 fuel oil fired boilers each rated at 13.50 million Btu per hour heat input	1991

Compliance Status:
Full Compliance inspection on August 22, 2022: No visible emissions were detected at the time of the inspection. APG certifies semi-annually that their fuel content is less than 0.3 wt%. APG-AA submits a certification from the oil supplier with each semi-annual report. Operations manuals and preventative maintenance plans, Operator training & maintenance records, and combustion testing are maintained at building 345.

Applicable Standards and limits
A. Control of Visible Emissions
COMAR 26.11.09.05A – Fuel Burning Equipment
"(2) Areas III and IV. In Areas III and IV, a person may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers except that, for the purpose of demonstrating compliance using COM data, emissions that are visible to a human observer are those that are equal to or greater than 10 percent opacity.
(3) Exceptions. Section A(1) and (2) of this regulation do not apply to emissions during load changing, soot blowing, startup, or adjustments or occasional cleaning of control equipment if:
(a) The visible emissions are not greater than 40 percent opacity; and
(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period."

The Federal New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units with a heat input capacity less than 100 million Btu/hour but greater than 10 million Btu/hour for which construction began after June 9, 1989, **40 CFR 60, Subpart Dc**, which contains the following:

§60.43c – "**(c)** On and after the date on which the initial performance test is completed or required to be completed under Sec. 60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 million Btu/hr) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.
(d) The PM and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction."

Note: Compliance with the "No Visible Emissions" requirement of COMAR 26.11.09.05A(2) will be used to show compliance with this NSPS standard.

Compliance Demonstration:
The Permittee shall: properly operate and maintain the boilers in a manner to prevent visible emissions; and verify no visible emissions when burning No. 2 fuel oil. The Permittee shall perform a visual observation for a 6-minute period once for each 168 hours that the boiler burns oil or at a minimum of once per year.

The Permittee shall perform the following, if emissions are visible: inspect combustion control system and boiler operations; perform all necessary adjustments and/or repairs to the boiler within 48 hours, so that visible emissions are eliminated; document in writing the results of the inspections, adjustments and/or repairs to the boiler; and after 48 hours, if the required adjustments and/or repairs had not eliminated the visible emissions, perform Method 9 observations once daily for 18 minutes until corrective actions have eliminated the visible emissions. The Permittee shall: maintain an operation manual and prevention maintenance plan on site; maintain a record of the maintenance performed that relates to combustion performance; maintain a log of visible emissions observations performed and make it available to the Department's representative upon request; maintain a record of the hours that No. 2 fuel oil is burned. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall report incidents of visible emissions in accordance with permit condition 4, Section III, Plant Wide Conditions, "Report of Excess Emissions and Deviations".

Rationale for Periodic Monitoring: Boilers that burn Natural Gas fuel with No. 2 Fuel Oil as backup (or No. 2 fuel oil as primary) with a rated heat input capacity of more than 10 MM Btu/hr and less than 250 MM Btu/hr rarely have visible emissions if properly operated and maintained. The Permittee is required to maintain on site an operations manual, a preventative maintenance plan, and records of maintenance performed that relate to combustion performance.

If visible emissions occur, it will happen when burning No. 2 fuel oil. No. 2 fuel oil is burned only as a backup fuel. The Permittee is required to perform a visual observation of the exhaust gases from the boiler stack for a 6-minute period, once each 168 hours that fuel oil is burned. In mild winters, the hours of interrupted gas service may be less than 168 hours. At a minimum, one observation for visible emissions is required each year. The Permittee is required to maintain a record of the results of the observations and number of hours that No. 2 fuel oil is burned.

B. Control of Sulfur Oxide Emissions
COMAR 26.11.09.07A(2) - Sulfur Content Limitations for Fuel.
"A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (b) Distillate fuel oils, 0.3 percent."

The Federal New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units with a heat input capacity less than 100 million Btu/hour but greater than 10 million Btu/hour for which construction began after June 9, 1989, ***40 CFR 60, Subpart Dc****, which contains the following:*

§60.42c – Standard for sulfur dioxide
"**(d)** On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO_2 in excess of 215 ng/J (0.50 lb/million Btu) heat input; or an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater that 0.5 percent weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph."
"**(h)** For affected facilities listed under paragraphs (h)(1), (2), or (3) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f), as applicable.
(1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr)."
"**(i)** The SO_2 emission limits, fuel oil sulfur limits, and percent reduction requirements under this section apply at all times, including periods of startup, shutdown, and malfunction."

Note: The monitoring, record keeping, and reporting requirements under NSPS Subpart Dc will be used to demonstrate compliance with COMAR 26.11.09.07A and the NSPS sulfur in fuel standard.

Compliance Demonstration:
The Permittee shall obtain a certification from the fuel supplier stating that the oil complies with the limitation on the sulfur content of the fuel oil. **[Reference: 40 CFR 60.44c(h)].** The Permittee shall maintain records of fuel supplier's certification and shall make records available to the Department upon request **[Reference: 40 CFR 60.48c(e)].** The Permittee shall report fuel supplier certifications to the Department every six months. The report shall be postmarked by the 30th day following the end of the reporting period. **[Reference: 40 CFR 48c(j)].**

Rationale for Periodic Monitoring: The strategy for the compliance demonstration is based on the compliance demonstration for NSPS Subpart Dc boilers that burn fuel oil. The methodology for the compliance demonstration is based on the NSPS monitoring, record keeping, and reporting requirements for sulfur in fuel oil. See discussion of streamlining below.

Streamlining NSPS requirements with COMAR
These boilers are subject to following Federal New Source Performance Standards (NSPS) for Small Industrial-commercial-institutional Steam Generating Units with a heat input capacity less than 100 million Btu/hour but greater than 10 million Btu/hour for which construction began after June 9, 1989, 40 CFR 60, Subpart Dc:

- 40 CFR 60.43c which limits visible emissions to 20 percent opacity
- 40 CFR 60.42c which limits sulfur content in the fuel oil to 0.5 wt %

Compliance with the "No Visible Emissions" requirement of COMAR 26.11.09.05A(2) will be used as a demonstration of compliance with this NSPS 20 percent opacity standard.
The demonstration of compliance with COMAR 26.11.09.07A, which requires 0.3 % sulfur content by weight, as well as the NSPS limitation of 0.5 % will be based on the NSPS monitoring, record keeping, and reporting requirements for sulfur content in fuel oil.

C. Control of Nitrogen Oxide Emissions
COMAR 26.11.09.08B(5) - Operator Training.
(1) For purposes of this regulation, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation.

(2) The operator training course sponsored by the Department shall include an in-house training course that is approved by the Department."

COMAR 26.11.09.08E. - Requirements for Fuel-Burning Equipment with a Rated Heat Input Capacity of 100 Million Btu Per Hour or Less. "A person who owns or operates fuel-burning equipment with a rated heat input capacity of 100 Million Btu per hour or less shall:

(1) Submit to the Department an identification of each affected installation, the rated heat input capacity of each installation, and the type of fuel burned in each;

(2) Perform a combustion analysis for each installation at least once each year and optimize combustion based on the analysis;

(3) Maintain the results of the combustion analysis at the site for at least 2 years and make this data available to the Department and the EPA upon request;

(4) Once every 3 years, require each operator of the installation to attend operator training programs on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and

(5) Prepare and maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request."

Compliance Demonstration:

The Permittee shall perform a combustion analysis once a year. The Permittee shall optimize combustion based on the annual combustion analysis. **[Reference: COMAR 26.11.09.08E(2)].** The Permittee shall maintain records of the results of the annual combustion analysis and record of training program attendance for each operator on site. **[Reference: COMAR 26.11.09.08E(5)]**. The Permittee shall submit: The results of combustion analysis to the department and the EPA upon request; **[Reference: COMAR 26.11.09.08E(3)]** and a record of training program attendance for each operator to the Department upon request. **[Reference: COMAR 26.11.09.08E(5)]**.

Emission Unit: - Boilers Cont'd

All Oil-fired boilers: Space heaters, Process boilers & NSPS boilers.

Compliance Status:

The APG Aberdeen Area submits annual MACT reports for 40 CFR 63 Subpart JJJJJJ to MDE. The reports state that APG has met the work practice standards of the MACT. The reports track the APG's compliance with the 5-year and biannual boiler tune-up requirements of the MACT. Initial compliance demonstrations and the results of energy assessment and/or tune-up have been entered electronically into the EPA's WebFire database using the compliance

and emission data reporting interface (CEDRI) on EPA's central data exchange (CDX).

Applicable Standards and limits

Control of HAPs:

40 CFR Part 63, Subpart JJJJJJ—National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

§63.11193 - Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195.

§63.11194 - What is the affected source of this subpart?

"(a) This subpart applies to each new, reconstructed, or existing affected source as defined in paragraphs (a)(1) and (2) of this section.

(1) The affected source of this subpart is the collection of all existing industrial, commercial, and institutional boilers within a subcategory, as listed in §63.11200 and defined in §63.11237, located at an area source.

(2) The affected source of this subpart is each new or reconstructed industrial, commercial, or institutional boiler within a subcategory, as listed in §63.11200 and as defined in §63.11237, located at an area source.

(b) An affected source is **an existing source** if you commenced construction or reconstruction of the affected source **on or before June 4, 2010**.

(c) An affected source is **a new source** if you commenced construction of the affected source **after June 4, 2010**, and the boiler meets the applicability criteria at the time you commence construction."

§63.11196 - What are my compliance dates?

(a) If you own or operate an existing affected boiler, you must achieve compliance with the applicable provisions in this subpart as specified in paragraphs (a)(1) through (3) of this section.

(1) If the existing affected boiler is subject to a work practice or management practice standard of a tune-up, you must achieve compliance with the work practice or management practice standard no later than March 21, 2014.

(2) If the existing affected boiler is subject to emission limits, you must achieve compliance with the emission limits no later than March 21, 2014.

(3) If the existing affected boiler is subject to the energy assessment requirement, you must achieve compliance with the energy assessment requirement no later than March 21, 2014.

(c) If you start up a new affected source after May 20, 2011, you must achieve compliance with the provisions of this subpart upon startup of your affected source.

§63.11201 - What standards must I meet?
(a) You must comply with each emission limit specified in Table 1 to this subpart that applies to your boiler.
(b) You must comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to this subpart that applies to your boiler. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in Table 2 to this subpart satisfies the energy assessment requirement. A facility that operates under an energy management program established through energy management systems compatible with ISO 50001, that includes the affected units, also satisfies the energy assessment requirement.
(c) You must comply with each operating limit specified in Table 3 to this subpart that applies to your boiler.
(d) These standards apply at all times the affected boiler is operating, except during periods of startup and shutdown as defined in §63.11237, during which time you must comply only with Table 2 to this subpart.

Table 1 to Subpart JJJJJJ of Part 63—Emission Limits
As stated in §63.11201, you must comply with the following applicable emission limits:

If your boiler is in this subcategory	For the following pollutants	You must achieve less than or equal to the following emission limits, except during periods of startup and shutdown
5. **New oil-fired boilers with heat input capacity of 10 MMBtu/hr or greater** that do not meet the definition of seasonal boiler or limited-use boiler.	PM (Filterable)	3.0E-02 lb per MMBtu of heat input.

Table 2 to Subpart JJJJJJ of Part 63—Work Practice Standards, Emission Reduction Measures, and Management Practices

As stated in §63.11201, you must comply with the following applicable work practice standards, emission reduction measures, and management practices:

If your boiler is in this subcategory	You must meet the following
4. **Existing** oil-fired boilers with heat input capacity **greater than 5 MMBtu/hr** that do not meet the definition of seasonal boiler or limited-use boiler, or use an oxygen trim system that maintains an optimum air-to-fuel ratio	Conduct an initial tune-up as specified in §63.11214, and conduct a tune-up of the boiler **biennially** as specified in §63.11223.
5. **New oil-fired boilers** with heat input capacity **greater than 5 MMBtu/hr** that do not meet the definition of seasonal boiler or limited-use boiler, or use an oxygen trim system that maintains an optimum air-to-fuel ratio	Conduct a tune-up of the boiler biennially as specified in §63.11223.
12. **Existing oil-fired boilers with heat input capacity of equal to or less than 5 MMBtu/hr**	Conduct an initial tune-up as specified in §63.11214, and conduct a tune-up of the boiler every 5 years as specified in §63.11223.
13. **New oil-fired boilers with heat input capacity of equal to or less than 5 MMBtu/hr**	Conduct a tune-up of the boiler every 5 years as specified in §63.11223.
16. **Existing** coal-fired, biomass-fired, or **oil-fired boilers (units with heat input capacity of 10 MMBtu/hr and greater)**, not including limited-use boilers	Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operates under

	an energy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (1) to (4) appropriate for the on-site technical hours listed in §63.11237:
	(1) A visual inspection of the boiler system,
	(2) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,
	(3) An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,
	(4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,
	(5) A list of major energy conservation measures that are within the facility's control,
	(6) A list of the energy savings potential of the energy conservation measures identified, and
	(7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

Compliance Demonstration:

CONTINUOUS COMPLIANCE REQUIREMENTS

§63.11220 - When must I conduct subsequent performance tests or fuel analyses?

"(a) If your boiler has a heat input capacity of **10 million British thermal units per hour or greater**, you must conduct all applicable performance

(stack) tests according to §63.11212 on a triennial basis, except as specified in paragraphs (b) through (d) of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test.
(b) When demonstrating initial compliance with the PM emission limit, if your boiler's performance test results show that your PM emissions are equal to or less than half of the PM emission limit, you do not need to conduct further performance tests for PM but must continue to comply with all applicable operating limits and monitoring requirements. If your initial performance test results show that your PM emissions are greater than half of the PM emission limit, you must conduct subsequent performance tests as specified in paragraph (a) of this section."
"(d) **For existing affected boilers** that have not operated since the previous compliance demonstration and more than 3 years have passed since the previous compliance demonstration, you must complete your subsequent compliance demonstration no later than 180 days after the re-start of the affected boiler."

§63.11222 - How do I demonstrate continuous compliance with the emission limits?
"(a) You must demonstrate continuous compliance with each emission limit and operating limit in Tables 1 and 3 to this subpart that applies to you according to the methods specified in Table 7 to this subpart and to paragraphs (a)(1) through (4) of this section.
(2) If you have an applicable mercury or **PM emission limit**, you must keep records of the type and amount of all fuels burned in each boiler during the reporting period to demonstrate that all fuel types and mixtures of fuels burned would result in lower emissions of mercury than the applicable emission limit (if you demonstrate compliance through fuel analysis), or result in lower fuel input of mercury than the maximum values calculated during the last performance stack test (if you demonstrate compliance through performance stack testing).
(b) You must report each instance in which you did not meet each emission limit and operating limit in Tables 1 and 3 to this subpart that apply to you. These instances are deviations from the emission limits in this subpart. These deviations must be reported according to the requirements in §63.11225."

§63.11223 - How do I demonstrate continuous compliance with the work practice and management practice standards?
"(a) For affected sources subject to the work practice standard or the management practices of a tune-up, you must conduct a performance tune-up according to paragraph (b) of this section and keep records as required in §63.11225(c) to demonstrate continuous compliance. You must conduct the

tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up."
"(b) Except as specified in paragraphs (c) through (f) of this section, you must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (b)(1) through (7) of this section. Each **biennial** tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler.
(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.
(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
(4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
(5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
(6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section.
(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.
(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

(7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup."
"(e) Oil-fired boilers with a heat input capacity of equal to or less than 5 million Btu per hour must conduct a tune-up every 5 years as specified in paragraphs (b)(1) through (7) of this section. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed oil-fired boiler with a heat input capacity of equal to or less than 5 million Btu per hour, the first 5-year tune-up must be no later than 61 months after the initial startup. You may delay the burner inspection specified in paragraph (b)(1) of this section and inspection of the system controlling the air-to-fuel ratio specified in paragraph (b)(3) of this section until the next scheduled unit shutdown, but you must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months."
The Permittee must operate and maintain, at all times, any affected source, including air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. **[Reference: 40 CFR §63.11205(a)]**

§63.11225 - What are my notification, reporting, and recordkeeping requirements?
"(a) You must submit the notifications specified in paragraphs (a)(1) through (5) of this section to the administrator.
(1) You must submit all of the notifications in §§63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to you by the dates specified in those sections except as specified in paragraphs (a)(2) and (4) of this section.
(2) An Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to the standard.
(3) If you are required to conduct a performance stack test you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin.
(4) You must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in §63.11196 unless you must conduct a performance stack test. If you must conduct a performance stack test, you must submit the Notification of Compliance Status within 60 days of completing the performance stack test. You must submit the Notification of Compliance Status in accordance with paragraphs (a)(4)(i) and (vi) of this section. The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs (a)(4)(i) through (v) of this section, as applicable, and signed by a responsible official.
(i) You must submit the information required in §63.9(h)(2), except the information listed in §63.9(h)(2)(i)(B), (D), (E), and (F). If you conduct any performance tests or CMS performance evaluations, you must submit that data

as specified in paragraph (e) of this section. If you conduct any opacity or visible emission observations, or other monitoring procedures or methods, you must submit that data to the Administrator at the appropriate address listed in §63.13.
(ii) "This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler."
(iii) "This facility has had an energy assessment performed according to §63.11214(c)."
(iv) For units that install bag leak detection systems: "This facility complies with the requirements in §63.11224(f)."
(v) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."
(vi) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in §63.13.
(5) If you are using data from a previously conducted emission test to serve as documentation of conformance with the emission standards and operating limits of this subpart, you must include in the Notification of Compliance Status the date of the test and a summary of the results, not a complete test report, relative to this subpart.
(b) You must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in paragraphs (b)(1) through (4) of this section. You must submit the report by March 15 if you had any instance described by paragraph (b)(3) of this section. For boilers that are subject only to a requirement to conduct a biennial or 5-year tune-up according to §63.11223(a) and not subject to emission limits or operating limits, you may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of this section.
(1) Company name and address.
(2) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:
(i) "This facility complies with the requirements in §63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler."

(ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."
(iii) "This facility complies with the requirement in §§63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."
(3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.
(4) The total fuel use by each affected boiler subject to an emission limit, for each calendar month within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by you or EPA through a petition process to be a non-waste under §241.3(c), whether the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of §241.3, and the total fuel usage amount with units of measure."
"(c) You must maintain the records specified in paragraphs (c)(1) through (7) of this section.
(1) As required in §63.10(b)(2)(xiv), you must keep a copy of each notification and report that you submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.
(2) You must keep records to document conformance with the work practices, emission reduction measures, and management practices required by §63.11214 and §63.11223 as specified in paragraphs (c)(2)(i) through (vi) of this section.
(i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
(ii) *Not Applicable.*
(iii) For each boiler required to conduct an energy assessment, you must keep a copy of the energy assessment report.
(iv) For each boiler subject to an emission limit in Table 1 to this subpart, you must also keep records of monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used.
(v) For each boiler that meets the definition of seasonal boiler, you must keep records of days of operation per year.
(vi) For each boiler that meets the definition of limited-use boiler, you must keep a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10 percent and records of fuel use for the days the boiler is operating.

(3) For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation that were done to demonstrate compliance with the mercury emission limits. Supporting documentation should include results of any fuel analyses. You can use the results from one fuel analysis for multiple boilers provided they are all burning the same fuel type.
(4) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.
(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in §63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.
(6) You must keep the records of all inspection and monitoring data required by §§63.11221 and 63.11222, and the information identified in paragraphs (c)(6)(i) through (vi) of this section for each required inspection or monitoring.
(i) The date, place, and time of the monitoring event.
(ii) Person conducting the monitoring.
(iii) Technique or method used.
(iv) Operating conditions during the activity.
(v) Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation.
(vi) Maintenance or corrective action taken (if applicable).
(7) *Not Applicable.*
(d) Your records must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each recorded action. You must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years."

Emission Unit: Emergency & Non-Emergency Generators.

EMERGENCY & NON-EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0120-A01 thru 0120-A03	12-9-0408 & 12-9-0433 & 12-9-0434	Three (3) emergency generator sets each rated at 2922 bhp	2012

EMERGENCY & NON-EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0120-A04	025-0081-9-0503	One (1) emergency generator set rated at 2922 bhp	2017
0120-A05	025-0081-9-0504	One (1) emergency generator set rated at 2922 bhp	2016
0311-A01	9-0419	One (1) emergency generator set rated at 600 bhp	1986
03-0328-A01	12-9-0229	One (1) emergency generator set rated at 1072 bhp	1997
0328-A02	025-0081-9-0414	One (1) emergency generator set rated at 670.5 bhp	2006
0328-A03	025-0081-9-0418	One (1) emergency generator set rated at 804.6 bhp	2006
03-0394-A01 & A02	12-9-0227 & 12-9-0228	Two (2) emergency generator sets each rated at 1341 bhp	1997
03-4600-A04 & A05	12-9-0276 & 12-9-0277	Two (2) emergency generator sets each rated at 1877 bhp	1996
03-0394-A03 thru A07	25-0081-9-0386 thru -9-0390	Five (5) emergency generator sets each rated at 750 bhp (500 kW) located in Bldg 394 – ARL Compound	2008
6009-JSEC	9-0412	One (1) emergency generator set rated at 2200 bhp	2010
26-6010-C2CNT East-	025-0081-9-0411	Two (2) emergency generator sets each rated at 2919 bhp	2010
26-6003-GMS Lab-A04	025-0081-9-0393	One (1) 2500 kW (3778 bhp) diesel emergency generator set (Tier I certified) to be located at C4ISR-Research and Development – GMS Lab Building.	2009
26-6007-C2CNT West-A05	25-0081-9-0394	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – C2CNT West Building	2008

U. S. ARMY GARRISON ABERDEEN PROVING GROUND
ABERDEEN AREA
6504 RODMAN ROAD, BLDG 4304
ABERDEEN PROVING GROUND, MD 21005-5001
PART 70 OPERATING PERMIT NO. 24-025-0081
FACT SHEET

EMERGENCY & NON-EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-6006-GMS Tower-A04	25-0081-9-0395	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – GMS Tower Building	2008
26-6002-HQBuilding-A06	25-0081-9-0396	One (1) 2000 kW (2900 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Research and Development – HQ Building 2 and serves both HQ Building 1 & HQ Building 2.	2008
2202-A01	025-0081-9-0499	One (1) emergency generator set rated at 755 bhp	2015
3147-A01	025-0081-9-0491	One (1) emergency generator set rated at 670 bhp	2015
0316-01	025-0081-9-0409	One (1) emergency generator set rated at 2922 bhp	2012
0463-A01	9-0548	One (1) MTU 8V1600DS400 diesel fired emergency generator set rated at 460-kW, Bldg. 463. (Tier III). GP issued 4/30/2025	2025
3511-A01 & A02	9-0539 & 9-0540	Two (2) MTU 16V4000G84F diesel fired emergency generator sets, each rated at 2970-hp. PTC issued 2/27/2024	2024
3660-A01	025-0081-9-0500	One (1) emergency generator set rated at 643 bhp	1995
5016-A01	025-0081-9-0510	One (1) Cummins emergency generator rated at 2356 bhp	2017
5046-A01	025-0081-9-0509	Emergency Generator rated at 617 bhp	2017
BSS-01	9-0435	One (1) Detroit non-emergency generator set rated at 600 bhp	2001
LWE-01 thru LWE-05	9-0436	Five (5) Detroit non-emergency generator sets each rated at 550 bhp	2006
UTF-01	9-0437	One (1) Cummins non-emergency generator set rated at 500 bhp	1993

EMERGENCY & NON-EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
3090-JSEC-01	025-0081-9-0410	One (1) emergency generator set rated at 2923 bhp	2010

Compliance Status:
Full Compliance Inspection on August 22, 2022: None of the generators visited were operating at the time of inspection. Generators are only operated to ensure that they are operational. APG certifies semi-annually that their fuel content is less than 0.3 wt%. The generators are being switched to ultra low sulfur diesel per NSPS. All generators have run clocks and most of them have data sheets which show the run time which shows the hours the generators operate each month. Generators are used for emergency backup.

Applicable Standards and limits
A. Control of Visible Emissions
COMAR 26.11.09.05E - Stationary Internal Combustion Engine Powered Equipment.
"(2) Emissions During Idle Mode. A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.
(3) Emissions During Operating Mode. A person may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.
(4) Exceptions.
(a) Section E(2) of this regulation does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
(b) Section E(2) of this regulation does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
(i) Engines that are idled continuously when not in service: 30 minutes;
(ii) All other engines: 15 minutes.
(c) Section E(2) and (3) of this regulation do not apply while maintenance, repair, or testing is being performed by qualified mechanics."

Compliance Demonstration:
The Permittee shall properly operate and maintain the engines in a manner to minimize visible emissions. The Permittee shall retain records of preventive maintenance on site for at least five years and make these records available to

the Department upon request. **[Reference: COMAR 26.11.03.06C]** The Permittee shall report incidents of visible emissions in accordance with Permit Condition 4, Section III, Plant Wide Condition, "Report of Excess Emissions and Deviations"

B. Control of Sulfur Oxides
COMAR 26.11.09.07A(2) - Sulfur Content Limitations for Fuel.
" A person may not burn, sell, or make available for sale any fuel with a sulfur content by weight in excess of or which otherwise exceeds the following limitations: In Areas III and IV: (b) Distillate fuel oils, 0.3 percent."

Compliance Demonstration:
The Permittee shall report annual fuel supplier certification to the Department upon request. **[Reference: COMAR 26.11.03.06C].** The Permittee shall retain annual fuel supplier certifications stating that the fuel oil is in compliance with this regulation must be maintained for at least 5 years. The Permittee shall report annual fuel supplier certification to the Department upon request.
[Reference: COMAR 26.11.09.07C].

C. Control of Nitrogen Oxides
COMAR 26.11.09.08G- Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less, and Combustion Turbines with a Capacity Factor Greater than 15 Percent.

(1) A person who owns or operates fuel-burning equipment with a capacity factor (as defined in 40 CFR Part 72.2) of 15 percent or less shall:
   (a) Provide certification of the capacity factor of the equipment to the Department in writing;
   (b) For fuel-burning equipment that operates more than 500 hours during a calendar year, perform a combustion analysis and optimize combustion at least once annually;
   (c) Maintain the results of the combustion analysis at the site for at least 2 years and make these results available to the Department and the EPA upon request;
   (d) Require each operator of an installation, except combustion turbines, to attend operator training programs at least once every 3 years, on combustion optimization that are sponsored by the Department, the EPA, or equipment vendors; and
   (e) Maintain a record of training program attendance for each operator at the site, and make these records available to the Department upon request.

Compliance Demonstration:
The Permittee shall perform a combustion analysis and optimize combustion at least once annually for any of the engines that operates more than 500 hours during a calendar year. **[Reference: COMAR 26.11.09.08G(1)(b)]**. The Permittee shall maintain records of the results of the combustion analyses and any stack tests on site for at least five (5) years and make them available to the Department and EPA upon request. **[Reference: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C]** The Permittee shall submit records of combustion analysis and combustion analysis performed to the Department as part of the April 1 certification report. **[Reference: COMAR 26.11.03.06C]**. The Permittee shall submit a list of trained operators to the Department upon request. **[Reference: COMAR 26.11.09.08G(e) and COMAR 26.11.03.06C].**
COMAR 26.11.09.08K(3) – "A person subject to this regulation shall maintain annual fuel use records on site for not less than 3 years and make these records available to the Department upon request."

Emission Unit: Emergency Generators Cont'd (NSPS & NESHAP)

EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
0120-A01 thru 0120-A03	12-9-0408 & 12-9-0433 & 12-9-0434	Three (3) emergency generator sets each rated at 2922 bhp	2012
0120-A04	025-0081-9-0503	One (1) emergency generator set rated at 2922 bhp	2017
0120-A05	025-0081-9-0504	One (1) emergency generator set rated at 2922 bhp	2016
0328-A02	025-0081-9-0414	One (1) emergency generator set rated at 670.5 bhp	2006
0328-A03	025-0081-9-0418	One (1) emergency generator set rated at 804.6 bhp	2006
03-0394-A03 thru A07	25-0081-9-0386 thru -9-0390	Five (5) emergency generator sets each rated at 750 bhp (500 kW) located in Bldg 394 – ARL Compound	2008
6009-JSEC	9-0412	One (1) emergency generator set rated at 2200 bhp	2010
26-6010-C2CNT East-	025-0081-9-0411	Two (2) emergency generator sets each rated at 2919 bhp	2010

EMERGENCY GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
26-6003-GMS Lab-A04	025-0081-9-0393	One (1) 2500 kW (3778 bhp) diesel emergency generator set (Tier I certified) to be located at C4ISR-Phase I Research and Development – GMS Lab Building.	2009
26-6007-C2CNT West-A05	25-0081-9-0394	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – C2CNT West Building	2008
26-6006-GMS Tower-A04	25-0081-9-0395	One (1) 1500 kW (2200 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – GMS Tower Building	2008
26-6002-HQBuilding-A06	25-0081-9-0396	One (1) 2000 kW (2900 bhp) diesel emergency generator set (Tier II certified) to be located at C4ISR-Phase I Research and Development – HQ Building 2 and serves both HQ Building 1 & HQ Building 2.	2008
2202-A01	025-0081-9-0499	One (1) emergency generator set rated at 755 bhp	2015
3147-A01	025-0081-9-0491	One (1) emergency generator set rated at 670 bhp	2015
0316-A01	025-0081-9-0409	One (1) emergency generator set rated at 2922 bhp	2012
5016-A01	025-0081-9-0510	One (1) Cummins Emergency Generator rated at 2356 bhp	2017
5046-A01	025-0081-9-0509	Emergency Generator rated at 617 bhp	2017
3090-JSEC-01	025-0081-9-0410	One (1) emergency generator set rated at 2923 bhp	2010
3511-A01 & A02	9-0539 & 9-0540	Two (2) MTU 16V4000G84F diesel fired emergency generator sets, each rated at 2970-hp. PTC issued 2/27/2024	2024
0463-A01	9-0548	One (1) MTU 8V1600DS400 diesel fired emergency generator set rated at 460-kW, Bldg. 463.(Tier III). GP issued 4/30/2025	2025

Applicable Standards and limits

A. New Source Performance Standards (**NSPS**) under 40 CFR Part 60 Subpart IIII for Stationary Compression Ignition Internal Combustion Engines.

Note: Beginning October 1, 2010, installations subject to 40 CFR Part 60, Subpart IIII must comply with the diesel fuel standards of §60.4207 which limit the maximum sulfur content of the fuel to 15 ppm.

(1) This permit is valid only for the installation of an emergency diesel generator with piston displacement less than 10 liters per cylinder.

(2) The provisions of 40 CFR Part 60, Subpart IIII apply if the emergency diesel generator uses a diesel engine manufactured after April 1, 2006 [**Ref: §60.4200**].

(3) An emergency diesel generator or diesel engine subject to the requirements of 40 CFR 60, Subpart IIII ("NSPS emergency diesel generator" or "NSPS emergency diesel engine") shall be equipped with a non-resettable hour meter **[Ref: §60.4209(a)]**.

(4) The Permittee shall only purchase emergency generator sets certified to meet the emission standards of §60.4205(b). The generators must be installed and configured according to the manufacturer's specifications.**[Ref: §60.4211(c)]**

(5) The Permittee must purchase and install emergency generator sets certified to the emission standards for new nonroad diesel engines in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants **[Ref: §62.4202(b)(2)];**

(6) The requirements of condition (5) above do not apply to owners or operators of NSPS emergency diesel engines that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location **[Ref: §60.4208]**.

Compliance Demonstration:

The Permittee shall maintain a log for the emergency generator indicating the amounts of fuel oil combusted or the hours of operation, and reason for generator operation (i.e., maintenance or operational testing, power outage, etc.). **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Condition 1].**The Permittee shall maintain on site for the life of the source the following records for the emergency diesel generator(s): (a) Documentation of the manufacture date of the diesel engine, if manufactured prior to April 1, 2006 and the manufacturer model year of the diesel engine; (b) The installation date of each emergency diesel generator; and (c) The certifications of compliance or manufacturer engine test

data required by 40 CFR §60.4211 and §60.4214(b). **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Conditions 2].** Beginning October 1, 2007, for any NSPS emergency diesel generator the Permittee shall for each fuel delivery obtain from the fuel supplier a fuel supplier certification consisting of the name of the oil supplier, the date of delivery, the amount of fuel delivered, and a statement from the fuel supplier that the diesel fuel oil complies with the specifications of 40 CFR §80.510. The Permittee shall maintain the required records on site for at least five (5) years. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Condition 3].**

B. National Emissions Standards for Hazardous Air Pollutants (**NESHAP**) promulgated under 40 CFR 63, Subparts A and ZZZZ for Reciprocating Internal Combustion Engines

"**§63.6590** - What parts of my plant does this subpart cover?
This subpart applies to each affected source.
(c) Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of **40 CFR part 60 subpart IIII**, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. *No further requirements apply for such engines under this part.*
(1) A new or reconstructed stationary RICE located at an area source."

Compliance Demonstration:
See NSPS Requirements.

C. Operational Limits
(1) The Permittee must operate and maintain an NSPS emergency diesel generator and control devices according to the manufacturer's written instructions or according to procedures developed by the owner or operator that are approved by the manufacturer. Additionally the Permittee may change only those settings that are permitted by the manufacturer. The Permittee must also meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they may apply to an owner or operator **[Ref: §60.4211]**.

(2) The Permittee must meet the non-road diesel fuel sulfur requirements of 40 CFR §80.510(b) as follows:
(a) Maximum sulfur content 15 ppm and

(b) Minimum cetane index of 40; or
(c) Maximum aromatic content of 35 volume percent.

[Ref: 40 CFR §60.4207(b) and §80.510(b)]

Note: Compliance with this requirement demonstrates compliance with COMAR 26.11.09.07A(2)(b) which limits the sulfur content of diesel fuel (No. 2 fuel oil) to 0.3 percent by weight.

(3) The Permittee must comply with the following emissions standards for the emergency generator set:
(a) Non-methane Hydrocarbons and NOx (NMHC+NOx): 6.4 grams per kilowatt-hour (g/kW-hr)
(b) Carbon Monoxide (CO): 3.5 g/kW-hr
(c) Particulate Matter (PM): 0.2 g/kW-hr

[Ref: §60.4205(b), §60.4202(b)(2), and §89.112]

(4) The exhaust opacity from the emergency generator shall not exceed:
(a) 20 percent during the acceleration mode;
(b) 15 percent during the lugging mode; and
(c) 50 percent during the peaks in either the acceleration or lugging modes.

[Ref: 40 CFR §60.4205(b), §60.4202(b)(2), and §89.113]

(5) The Permittee must use diesel fuel in the emergency generator set that meets the requirements of 40 CFR §80.510(b) (diesel fuel that has a per-gallon sulfur content that does not exceed 15 ppm, and that either has a minimum per-gallon cetane index of 40 or a maximum per-gallon aromatic content of 35 volume percent), unless a waiver is obtained from the Department and/or the EPA Administrator. **[Ref: §60.4207]**.

(6) In accordance with 40 CFR §60.4211(f), non-emergency use of the emergency diesel generator set for the purpose of maintenance checks and readiness testing is limited to 100 hours per year or less unless prior approval is received from the Department.

(7) There is no time limit on the use of the emergency generator in emergency situations. **[Reference: 40 CFR §60.4211(f)(1)]**

(8) The Permittee may operate the emergency stationary ICE for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee

may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE beyond 100 hours per calendar year. **[Reference: 40 CFR §60.4211(f)(2)(i)]**

Note: *Effective May 2, 2016, emergency generators are no longer allowed to participate for emergency demand response operation unless they meet the requirements of a non-emergency generator of the same model year. This engine does not meet the standards for a non-emergency generator, therefore, operation for emergency demand response or during periods of voltage deviation*

(9) For the purpose of maintaining synthetic minor status for the C4ISR-Phase I Research and Development Facility, the combined NO_x emissions from the all fuel burning equipment (boilers and generators) at the facility must be less than 25 tons in any rolling 12-month period. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 issued July 15, 2009, Part D-Operating Conditions, Condition 7]**

Compliance Demonstration:
In order to demonstrate compliance with the annual emissions limitations, the Permittee shall calculate and record the NO_x emissions for each previous calendar month and a total for the previous 12 consecutive calendar months for the C4ISR-Phase I Research and Development Facility. The calculations and records shall be updated monthly, within the first 15 days of each following month. These records shall be submitted to the Department as part of the semi-annual report. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 issued July 15, 2009, Part E-Record Keeping and Reporting Requirements, Condition 4]**
The Permittee shall report the amounts of fuel oil combusted or the hours of operation, and reason for generator operation (i.e., maintenance or operational testing, power outage, etc.) to the Department in the annual emission certification report due on April 1 of each year. **[Reference: MDE PTC 025-0081-9-0393 thru -9-0396 & 9-0410 thru 9-0412, Part E-Record Keeping and Reporting Requirements, Condition 1].**

Emission Unit: - Emergency & Non-Emergency Generators Cont'd (MACT)

MACT GENERATORS			
Emissions Unit Number	**MDE Registration Number**	**Emissions Unit Name and Description**	**Date of Installation**
03-0328-A01	12-9-0229	One (1) emergency generator set rated at 1072 bhp	1997
0328-A02	025-0081-9-0414	One (1) emergency generator set rated at 670.5 bhp	2006
0328-A03	025-0081-9-0418	One (1) emergency generator set rated at 804.6 bhp	2006
0311-A01	9-0419	One (1) emergency generator set rated at 600 bhp	1986
03-0394-A01 & A02	12-9-0227 & 12-9-0228	Two (2) emergency generator sets each rated at 1341 bhp	1997
03-4600-A04 & A05	12-9-0276 & 12-9-0277	Two (2) emergency generator sets each rated at 1877 bhp	1996
3660-A01	025-0081-9-0500	One (1) emergency generator set rated at 643 bhp	1995
BSS-01	9-0435	One (1) Detroit non-emergency generator rated at 600 bhp that run hydraulic equipment	2001
LWE-01 thru LWE-05	9-0436	Five (5) Detroit non-emergency generators each rated at 550 bhp that run hydraulic equipment	2006
UTF-01	9-0437	One (1) Cummins non-emergency generator rated at 500 bhp that run hydraulic equipment	1993

Compliance Status

The APG Aberdeen Area stated in their ACOMP that the following emergency and non-emergency generators maintenance schedule is followed:

- Change oil and filter every 500 hours of operation or annually, whichever comes first,
- Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and
- Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

Testing of Non-Emergency Engines:

- 5 LWE Engines – August 20, 2020

Applicable Standards and limits

§63.6595 - When do I have to comply with this subpart?

(a) *Affected sources.* (1)" ..... If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, **or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.** .....".

§63.6603 - What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

(a) If you own or operate an existing stationary RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 1b and Table 2b to this subpart that apply to you.

Table 2d to Subpart ZZZZ of Part 63—Requirements for Existing Stationary RICE Located at Area Sources of HAP Emissions

As stated in §§63.6603 and 63.6640, you must comply with the following requirements for existing stationary RICE located at area sources of HAP emissions:

For each.	You must meet the following requirement, except during periods of startup.	During periods of startup you must.
1. **Non-Emergency**, non-black start CI stationary RICE ≤300 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first;[1] b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first,	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

	and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	
2. **Non-Emergency**, non-black start CI stationary RICE 300<HP≤500	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O_2; or	
	b. Reduce CO emissions by 70 percent or more.	
3. **Non-Emergency**, non-black start CI stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O_2; or	
	b. Reduce CO emissions by 70 percent or more.	
4. **Emergency stationary CI RICE** and black start stationary CI RICE.[2]	a. Change oil and filter every 500 hours of operation or annually, whichever comes first;[1]	
	b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and	
	c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	

[1]Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2d of this subpart.

[2]If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under Federal, State, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.

§63.6605 - What are my general requirements for complying with this subpart?
"(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.
(b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source."

Compliance Demonstration:
§63.6615 - When must I conduct subsequent performance tests?
"If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart."

§63.6620 - What performance tests and other procedures must I use?
(a) "You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you."
(b) "Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-

operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load for the stationary RICE listed in paragraphs (b)(1) through (4) of this section."

§63.6625 - What are my monitoring, installation, collection, operation, and maintenance requirements?
"(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (6) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011.
(1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in §63.8(d). As specified in §63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan.
(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;
(ii) Sampling interface (*e.g.,* thermocouple) location such that the monitoring system will provide representative measurements;
(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;
(iv) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (c)(3); and
(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).
(2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.
(3) The CPMS must collect data at least once every 15 minutes (see also §63.6635).
(4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.

(5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.
(6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan."

"(e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:
(3) An **existing emergency** or black start stationary RICE located at an area source of HAP emissions."

"(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or **an existing emergency stationary RICE located at an area source of HAP emissions,** you must install a non-resettable hour meter if one is not already installed."

"(g) If you own or operate an existing **non-emergency**, non-black start CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska that meet either §63.6603(b)(1) or §63.6603(b)(2) do not have to meet the requirements of this paragraph (g). Existing CI engines located on offshore vessels that meet §63.6603(c) do not have to meet the requirements of this paragraph (g).
(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or
(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals."

"(h) If you operate a new, reconstructed, or **existing stationary engine**, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the

engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply."

"(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine."

§63.6640 - How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission limitation applicable to your stationary RICE.

"(f) If you own or operate an **emergency stationary RICE**, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.
(1) There is no time limit on the use of emergency stationary RICE in emergency situations.
(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).
(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.
(3) *Not Applicable.*
(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity."

§63.6655 - What records must I keep?
"(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.
(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).
(2) Records of the occurrence and duration of each malfunction of operation (*i.e.,* process equipment) or the air pollution control and monitoring equipment.
(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).
(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.
(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation."

"(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.
(1) Records described in §63.10(b)(2)(vi) through (xi).
(2) Previous (*i.e.,* superseded) versions of the performance evaluation plan as required in §63.8(d)(3).
(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable."

"(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors."

"(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you."

"(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;
(2) An existing stationary emergency RICE.

(3) An existing stationary RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart."

"(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.
(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines."

"If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedule required in Table 2d of this subpart, or if performing the management practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the management practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under federal, state, or local law has abated. Sources must report any failure to perform the management practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable." **[Footnote 2 of Table 2d]**

§63.6650 - <u>What reports must I submit and when?</u>
"(a) You must submit each report in Table 7 of this subpart that applies to you."

"(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.
(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.
(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.
(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.
(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.
(6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.
(7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.
(8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.
(9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31."

"(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.
(1) Company name and address.
(2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.
(3) Date of report and beginning and ending dates of the reporting period.
(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.
(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period."

"(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.
(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.
(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken."

"(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.
(1) The date and time that each malfunction started and stopped.
(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.
(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).
(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.
(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.
(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.
(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.
(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.
(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.
(11) The date of the latest CMS certification or audit.
(12) A description of any changes in CMS, processes, or controls since the last reporting period."

"(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority."

"(h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.
(1) The report must contain the following information:
(i) Company name and address where the engine is located.
(ii) Date of the report and beginning and ending dates of the reporting period.
(iii) Engine site rating and model year.
(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
(v) Hours operated for the purposes specified in §63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(2)(ii) and (iii).
(vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §63.6640(f)(2)(ii) and (iii).
(vii) Hours spent for operation for the purpose specified in §63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(viii) If there were no deviations from the fuel requirements in §63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
(ix) If there were deviations from the fuel requirements in §63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.
(2) **The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.**
(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §63.13."

Emission Unit: - Paint Spray Booth

07-00525-A04 & A06 - Two (2) custom made cross draft paint spray booths. **[12-6-0159 & 12-6-0162]**.

Compliance Status:
Full Compliance Inspection on August 22, 2023: An inspection of the paint spray booth areas showed that the APG Aberdeen Area was implementing proper housekeeping techniques to control for VOC emissions. No empty coating containers were observed open and used rags were being stored properly in closed containers.

Paint booth logs and a table with coatings components and solvents are kept at the APG Aberdeen Area. The APG Aberdeen Area provides annually in their Emission Certification Report to MDE a table of daily coating applications that include:

- Date of application
- Type of coating used
- Coating ID
- Coating manufacture
- Coating VOC content specifications
- Amount of coating used
- Equipment that the coating was applied to

- Emission totals

Applicable Standards and limits

Control of Volatile Organic Compounds

COMAR 26.11.19.23E. General Requirements and Standards.

(1) VOC Content Limits.

(a) Except as provided in this regulation, effective July 1, 2013, a person who is subject to this regulation may not supply, sell, offer for sale, distribute, or manufacture for use within the State an automotive coating or cleaning solvent with a VOC content in excess of the corresponding limit specified in Table 1 of §E(1) or in §E(5) of this regulation.

(b) A person may not use or apply to a motor vehicle, mobile equipment, or associated parts and components, an automotive coating or cleaning solvent for vehicle refinishing that exceeds the VOC content specified in Table 1 of §E(1) or in §E(5) of this regulation.

Table 1. VOC Content Limits for Automotive Coatings for Motor Vehicle and Mobile Equipment Non-assembly Line Refinishing and Recoating.

	VOC Content Limit of Coatings as Applied*	
Coating Category	Pounds per gallon	Grams per liter
Adhesion promoter	4.5	540
Automotive pretreatment coating	5.5	660
Automotive primer	2.1	250
Clear coating	2.1	250
Color coating, including metallic/iridescent color coating	3.5	420
Multicolor coating	5.7	680
Other automotive coating type	2.1	250
Single-stage coating, including single-stage metallic/iridescent coating	2.8	340
Temporary protective coating	0.5	60
Truck bed liner coating	1.7	200
Underbody coating	3.6	430

* The VOC content is determined as the weight of volatile compounds (prepared to manufacturer's maximum VOC content), less water and exempt compounds, as specified in §E(2) of this regulation.

COMAR 26.11.19.23H. Work Practice Standards.
(1) Spray guns used to apply automotive coating components or automotive coatings shall be cleaned by one or a combination of the following:
(a) A fully enclosed spray gun cleaning system that is kept closed when not in use and is maintained in accordance with the requirements of §L(1)(a)—(c) of this regulation;
(b) Unatomized discharge of solvent into a paint waste container that is kept closed when not in use;
(c) Disassembly of the spray gun and cleaning in a vat that is kept closed when not in use; or
(d) Atomized spray into a paint waste container that is filled with a device designed to capture atomized mist or spray solvent emissions.
(2) The owner or operator of an automotive refinishing facility or non-assembly line operation subject to this regulation shall implement the following work practice standards and training measures:
(a) Fresh and used automotive coating components, automotive coatings, solvents, and cleaning solvents shall be stored in vapor tight, nonabsorbent, nonleaking containers that shall be kept closed at all times except when filling or emptying;
(b) Cloth or paper, or absorbent applicators, moistened with automotive coatings components, automotive coatings, solvents, or cleaning solvents shall be stored in closed, vapor tight, nonabsorbent, nonleaking containers;
(c) Handling and transfer procedures to minimize spills during the transfer of automotive coating components, automotive coatings, solvents, and cleaning solvents; and
(d) Ensure that a person who uses or applies automotive coating components, automotive coatings, solvents, or cleaning solvents has completed training in the proper use and handling of the automotive coating components, automotive coatings, solvents, and waste products in order to minimize the emission of air contaminants and to comply with the provisions of this regulation.

Compliance Demonstration:
COMAR 26.11.19.23I. Compliance Procedures and Monitoring Requirements.
(1) Compliance Statement Requirements.
(a) For each automotive coating product or automotive coating component product, a manufacturer and repackager who is subject to the provisions of this regulation shall include the following information on product data sheets or an equivalent documentation:

(i) The VOC actual content and VOC regulatory content, as supplied, for the coating product or coating component product, expressed in grams per liter, calculated in accordance with §E(2)(a)(i) and (ii) of this regulation;
(ii) The weight percent of volatiles, water, and exempt compounds;
(iii) The volume percent of water and exempt compounds; and
(iv) The density of the material (in grams per liter).
(b) For each ready to spray mixture (based on the manufacturer's and repackager's stated mix ratio) product, the manufacturer and repackager shall include the following information on product data sheets or an equivalent documentation:
(i) The VOC actual content and the VOC regulatory content, as applied, for the coating product or coating component product, expressed in grams per liter;
(ii) The weight percent of volatiles, water, and exempt compounds;
(iii) The volume percent of water and exempt compounds; and
(iv) The density of the material (in grams per liter).
(c) The manufacturer and repackager of cleaning solvents subject to this regulation shall include the VOC content of the cleaning solvents as supplied, calculated in accordance with the requirements of §E(2)(a)(iii) of this regulation, expressed in grams per liter, on product data sheets or an equivalent documentation.
(2) Container Labeling Requirements. The manufacturer and repackager of automotive coatings or automotive coating components shall include the following information on all containers or on a label affixed to the container:
(a) The applicable use category or categories;
(b) The VOC actual content of the coating or coating component, as supplied, calculated in accordance with the requirements of §E(2)(a)(ii of this regulation) and expressed in grams per liter;
(c) The VOC regulatory content of the coating or coating component as supplied, calculated in accordance with the requirements of §E(2)(a)(i) of this regulation and expressed in grams per liter; and
(d) The manufacturer and repackager of cleaning solvents subject to this rule shall include on all containers, or on a label affixed to the container, the VOC content for cleaning solvents, as supplied, calculated in accordance with the requirements of §E(2)(a)(iii of this regulation) and expressed in grams per liter.

COMAR 26.11.19.23J. Record Keeping.
(1) Record-Keeping Requirements for Coatings, Coating Components and Solvents. A person who uses automotive coatings, automotive coating components, ready-to-spray coatings (based on the manufacturer's stated mix ratio), or cleaning solvents subject to this regulation shall maintain and have available at all times, the following:

(a) A current list of all coatings, coating components and cleaning solvents used that are subject to this regulation which includes the following information for each coating, coating component and cleaning solvent:
(i) Whether the material is a coating, coating component, or cleaning solvent;
(ii) Coating, coating component or cleaning solvent name and manufacturer;
(iii) Application method;
(iv) Coating type;
(v) The mix ratio specific to the coating, coating component or cleaning solvent; and
(vi) The VOC actual content and VOC regulatory content as applied, for each ready to spray or ready to apply coating or cleaning solvent and copies of data sheets documenting how the as applied values were determined;
(b) The VOC actual content and VOC regulatory content as supplied and copies of current manufacturer specification sheets, product data sheets, material safety data sheets, technical data sheets, or air quality data sheets documenting the as supplied value; and
(c) Purchase records identifying the following;
(i) The coating type;
(ii) Coating, coating component, or cleaning solvent name; and
(iii) Volume purchased of the coating, coating component or cleaning solvent.
(2) Record-Keeping Requirements for Emission Control Systems. A person using an emission control system shall maintain daily records of the following key system operating parameters which demonstrate continuous operation and compliance of the emission control system during periods of VOC emission producing activities:
(a) Temperatures;
(b) Pressure drops; and
(c) Air flow rates.
(3) The records under this regulation shall be maintained for not less than 3 years and made available to the Department upon request.

The Permittee shall report material usage and VOC content of coatings to the Department annually in the Emission Certification Report. **[Reference: COMAR 26.11.03.06C]**

Emission Unit: Underground Storage Tanks

26-04029-A03 & A05 – Two (2) 20,000-gallon underground storage tanks equipped with Stage I vapor recovery systems installed in 1993. **[9-0152].** APG has a bulk gasoline/diesel terminal that is used to fill fuel trucks to deliver fuel by trucks as needed.

Compliance Status:
Full Compliance Inspection on August 22, 2023: The loading system for the storage tanks is equipped with a vapor balance line. The APG Aberdeen Area certifies in their annual compliance certification report that the vapor balance line has been properly installed and is maintained and used.

The APG states in their annual compliance certification report that the APG performs quarterly inspections of the underground storage tanks and records ensuring that:

- Training records are on-site,
- Daily inspection records of each system are maintained,
- Records show that defective equipment is not being operated,
- Records show that defective equipment is being tagged as out of service,
- CARE-approved test records are reviewed and maintained,
- Leak test and leak rate & cracking pressure tests are performed annually for the vapor balance system. The last tests performed were on December 2 & 3, 2020.

The Stage II equipment was removed in December 2020 as allowed by COMAR and approved by MDE.

Applicable Standards and limits
Control of Volatile Organic Compounds
COMAR 26.11.13.04C - Small Storage Tanks.
(1) "Applicability. This section applies to a person who owns or operates:
(a) A gasoline storage tank that has a tank capacity greater than 2,000 gallons but less than 40,000 gallons; or
(b) A gasoline tank truck used to transfer gasoline into a storage tank that is listed in Sec. C(1)(a) of this regulation.

(2) Stage I Vapor Recovery. An owner or operator of a gasoline tank truck or an owner or operator of a stationary storage tank subject to this regulation may not cause or permit gasoline to be loaded into a stationary tank unless the loading system is equipped with a vapor balance line that is properly installed, maintained and used."

Operational Limits
COMAR 26.11.24.06-Training Requirements for Operation and Maintenance of Approved Systems.
A. "General. An operator shall ensure that:

(1) At least one employee at each facility subject to this regulation is trained in accordance with the requirements of Sec. B of this regulation; and
(2) The trained employee assists in the training of each of the other employees at that facility who are involved in the operation or maintenance of the approved system.

B. Approved Training Course Contents and Duration.
(1) An approved training course shall contain, at a minimum, a discussion of the following:
(a)Purposes and effects of Stage II vapor recovery;
(b)Stage II vapor recovery equipment design, function, operation and maintenance;
(c)Daily inspection requirements and development and maintenance of records and files; and
(d)Equipment warranties and spare parts.
(2) The approved training course shall be of duration sufficient to properly train persons in the requirements of this chapter."

COMAR 26.11.24.08 - Instructional Signs

A. "An operator who is subject to this chapter shall place instructional signs in conspicuous locations at each gasoline dispenser.
B. The instructional signs shall include:
(1) Instructions, with illustrations, on how to insert the nozzle, dispensing gasoline, and how to remove the nozzle;
(2) A warning against attempts to continue refueling after automatic shutoff of the gasoline (that is , topping off); and
(3) The Department's toll-free telephone number, which may be used for complaints or comments concerning the use of the Stage II vapor recovery systems."

Compliance Demonstration:

COMAR 26.11.24.04 - Testing Requirements.

A. Except as provided in §§E and F of this regulation, an owner subject to this chapter shall perform the following CARB-approved tests.
(1) A leak test in accordance with the Vapor Recovery Test Procedure TP-201.3 referenced in Regulation .01-1B(1) of this chapter;
(2) An air to liquid volume ratio test in accordance with the Vapor Recovery Test Procedure TP-201.5 referenced in Regulation .01-1B(2) of this chapter.
(3) A dynamic pressure performance test in accordance with the Vapor Recovery Test Procedure TP-201.4 referenced in Regulation .01-1B(3) of this chapter;
(4) A vapor return line vacuum integrity test for the Healy Model 400 ORVR System in accordance with Executive Order G-70-186, Exhibit 4 referenced in Regulation .01-1B(4) of this chapter; and

(5) A vapor return line vacuum integrity test for the Healy Model 600 System in accordance with Executive Order G-70-165 Exhibit 4 referenced in Regulation .01-1B(5) of this chapter.

B. The leak and liquid blockage tests required in §A of this regulation shall be performed on each approved system before the gasoline dispensing facility is initially used to refuel motor vehicles, or by the applicable dates in Regulation .03 of this chapter, whichever occurs later.

D. If a gasoline dispensing facility fails any test required by this chapter, the owner shall notify the Department of the failure in writing within 5 working days after the test and before retesting.
E. Alternative test methods approved by CARB may be used in place of the test methods specified in §A of this regulation, if the alternative test methods are approved by the U.S. Environmental Protection Agency (EPA) as a revision to the State Implementation Plan, which is Maryland's plan for meeting the National Ambient Air Quality Standards.
F. Test methods and the frequency of testing required by this regulation may be modified for vapor assist systems, if the test methods and testing frequency are approved by the Department and the EPA.

COMAR 26.11.24.05 - Inspection Requirements.

A. "An operator subject to this chapter shall ensure that each approved system is inspected at least once each day of operation to verify that it is working properly.

B. Except as provided in Sec. C of this regulation, the Department shall consider an operator of a gasoline dispensing facility to be in violation of Regulation .03E of this chapter during periods of time when defective equipment at the facility is placed in operation.

C. The operator is not in violation of Regulation .03E of this chapter during any period of time that the operator establishes, to the satisfaction of the Department, that nozzles associated with defective equipment were tagged out of service and that no nozzle associated with the defective equipment was actually used.

D. For any defective equipment identified by the Department, the operator shall effect necessary repairs before placing the equipment in service, and shall inform the Department by telephone within 72 hours after the repair or replacement of the defective equipment has been effected."

COMAR 26.11.24.07 - Recording Keeping and Reporting Requirements.

A. "An operator subject to this chapter shall create and maintain a record file at the facility.

B. The record file shall contain copies of all test reports, permits, violation notices, correspondence with the Department, equipment maintenance records, training records, and other information pertinent to the requirements of this chapter. Verification of training shall be maintained in the facility file. Equipment maintenance records required under this chapter shall be maintained for at least 2 years. All other records shall be maintained for at least 5 years.

C. The equipment maintenance records shall include:
(1) The date on which defective equipment was found, a description of each defect, a description of the corrective action and the date on which the defect was corrected, and the probable cause of the defect;
(2) If parts are replaced, the location within the approved system of the part, the part number, and assurance that the replacement part does not degrade the efficiency of the system; and
(3) Inspection reports and any other information relating to maintenance or care of the approved system."

If any test is failed, the Permittee shall notify the Department in writing within 5 days after the test and before retesting. **[Reference: COMAR 26.11.24.04E]**

The Permittee shall submit written notification to the Department within 5 days of the incident, unless otherwise specified by the Permit. **[Reference: COMAR 26.11.24.04E]**

COMAR 26.11.24.07E: "The following reporting requirements apply to a test under this chapter:
(1) The Department shall be notified 5 days before a test is to be conducted;
(2) A test protocol shall be available at the test site during testing;
(3) Copies of all test results shall be forwarded to the Department within 30 days of the test; and
(4) Test failures shall be reported to the Department in writing within 5 days following the date of the failure."

---

(1)

Emission Unit: Facility-Wide

Facility-Wide

Compliance Status:
Full Compliance Inspection on August 22, 2023: The APG Aberdeen Area certifies that good operating practices have been verified by personnel for permitted sources such as paint spray booths and gas stations during quarterly inspection. MDE has verified APG's good operating practices. See prior sections (paint spray booths and underground gasoline storage tanks) in this report for more details.

Applicable Standards and limits
Control of VOC Emissions
A. **COMAR 26.11.19.02I.** - Good Operating Practices, Equipment Cleanup, and VOC Storage.
"(1) Applicability. The requirements in this section apply to a person who owns or operates an installation that is subject to any requirement in this chapter.
(2) Good Operating Practices.
(a) A person who is subject to this section shall implement good operating practices to minimize VOC emissions into the atmosphere.
(b) Good operating practices shall, at a minimum, include the following:
(i) Provisions for training of operators on practices, procedures, and maintenance requirements that are consistent with the equipment manufacturers' recommendations and the source's experience in operating the equipment, with the training to include proper procedures for maintenance of air pollution control equipment;
(ii) Maintenance of covers on containers and other vessels that contain VOC and VOC-containing materials when not in use;
(iii) As practical, scheduling of operations to minimize color or material changes when applying VOC coatings or other materials by spray gun;
(iv) For spray gun applications of coatings, use of high volume low pressure (HVLP) or other high efficiency application methods where practical; and
(v) As practical, mixing or blending materials containing VOC in closed containers and taking preventive measures to minimize emissions for products that contain VOC.
(c) A person subject to this regulation shall:
(i) Establish good operating practices in writing;
(ii) Make the written operating practices available to the Department upon request; and

(iii) Display the good operating practices so that they are clearly visible to the operator or include them in operator training.
(3) Equipment Cleanup.
(a) A person subject to this section shall take all reasonable precautions to prevent or minimize the discharge of VOC into the atmosphere when cleaning process and coating application equipment, including containers, vessels, tanks, lines, and pumps.
(b) Reasonable precautions for equipment cleanup shall, at a minimum, include the following:
(i) Storing all wastes and waste materials, including cloth and paper that are contaminated with VOC, in closed containers;
(ii) Preparing written standard operating procedures for frequently cleaned equipment, including when practical, provisions for the use of low-VOC or non-VOC materials and procedures to minimize the quantity of VOC materials used;
(iii) Using enclosed spray gun cleaning, VOC-recycling systems and other spray gun cleaning methods where practical that reduce or eliminate VOC emissions; and
(iv) Using, when practical, detergents, high-pressure water, or other non-VOC cleaning options to clean coating lines, containers, and process equipment.
(4) VOC Storage and Transfer.
(a) A person subject to this section who stores VOCs shall, at a minimum, install conservation vents or other vapor control measures on storage tanks with a capacity of 2,000 gallons or more, to minimize VOC emissions.
(b) A person subject to this section shall, at a minimum, utilize vapor balance, vapor control lines, or other vapor control measures when VOCs are transferred from a tank truck into a stationary storage tank with a capacity greater than 10,000 gallons and less than 40,000 gallons that store VOCs or materials containing VOCs, other than gasoline, that have a vapor pressure greater than 1.5 psia."

Compliance Demonstration:
The Permittee shall conduct facility-wide inspections at least once per quarter to determine the compliance status of facility operations with regard to implementation of "good operating practices" designed to minimize emissions of VOC. **[Reference: COMAR 26.11.03.06C]** The Permittee shall maintain: (1) Written descriptions of all "good operating practices" designed to minimize emissions of VOC from facility-wide operations. **[Reference: COMAR 26.11.19.02I]** (2) Records of all inspections conducted to determine the facility's compliance status with regard to implementation of "good operating practices"

designed to minimize emissions of VOC from facility-wide operations. The records shall include for each inspection the name of the inspector, the date and time of the inspection, and an account of the findings. **[Reference: COMAR 26.11.03.06C]** Good operating practices information as required by COMAR 26.11.19.02I shall be made available to the Department upon request.

B. **COMAR 26.11.19.16B, C & D** - Control of VOC Equipment Leaks
"Applicability. A person subject to any VOC emission standard or limitation established in this chapter and not otherwise subject to more specific VOC leak requirements of another regulation is subject to the requirements of this regulation.
General Requirements. A person subject to this regulation shall comply with all of the following requirements:
(1) Visually inspect all components on the premises for leaks at least once each calendar month.
(2) Tag any leak immediately so that the tag is clearly visible. The tag shall be made of a material that will withstand any weather or corrosive conditions to which it may be normally exposed. The tag shall bear an identification number, the date the leak was discovered, and the name of the person who discovered the leak. The tag shall remain in place until the leak has been repaired.
(3) Take immediate action to repair all observed VOC leaks that can be repaired within 48 hours.
(4) Repair all other leaking components not later than 15 days after the leak is discovered. If a replacement part is needed, the part shall be ordered within 3 days after discovery of the leak, and the leak shall be repaired within 48 hours after receiving the part.
(5) Maintain a supply of components or component parts that are recognized by the source to wear or corrode, or that otherwise need to be routinely replaced, such as seals, gaskets, packing, and pipe fittings.
(6) Maintain a log that includes the name of the person conducting the inspection and the date on which leak inspections are made, the findings of the inspection, and a list of leaks by tag identification number. The log shall be made available to the Department upon request. Leak records shall be maintained for a period of not less than 2 years from the date of their occurrence.
Exceptions. Components that cannot be repaired as required in this regulation because they are inaccessible, or that cannot be repaired during operation of the source, shall be identified in the log and included within the source's maintenance schedule for repair during the next source shutdown."

Compliance Demonstration:
The Permittee shall visually inspect all components on the premises for VOC leaks at least once each calendar month following the procedures specified in COMAR 26.11.19.16. **[Reference: COMAR 26.11.19.16C(1)]**. The Permittee shall maintain a log that includes the name of the person conducting the inspection and the date on which leak inspections are made, the findings of the inspection, a list of leaks by tag identification number and identity of components that cannot be repaired as required in this regulation because they are inaccessible, or that cannot be repaired during operation if the source. The log shall be made available to the Department upon request. Leak records, along with the log shall be maintained for a period of not less than 2 years from the date of their occurrence. **[Reference: COMAR 26.11.03.06C]**. Leak inspection logs as required by COMAR 26.11.19.16 shall be made available to the Department upon request.

COMPLIANCE SCHEDULE

APG-Aberdeen Area is currently in compliance with all applicable air quality regulations.

TITLE IV – ACID RAIN

APG-Aberdeen Area is not subject to the Acid Rain Program.

TITLE VI – OZONE DEPLETING SUBSTANCES

APG-Aberdeen Area shall comply with the applicable standards and regulations pursuant to 40 CFR Part 82.

SECTION 112(r) – ACCIDENTAL RELEASE

APG-Aberdeen Area is subject to the requirements of Section 112 (r). A Risk Management Plan has been submitted.

U. S. ARMY GARRISON ABERDEEN PROVING GROUND
ABERDEEN AREA
6504 RODMAN ROAD, BLDG 4304
ABERDEEN PROVING GROUND, MD 21005-5001
PART 70 OPERATING PERMIT NO. 24-025-0081
FACT SHEET

PERMIT SHIELD

The APG-Aberdeen Area facility requested that a permit shield be expressly included in the Permittee's Part 70 permit. Permit shields are granted on an emission unit by emission unit basis. If an emission unit is covered by a permit shield, a permit shield statement will follow the emission unit table in Section IV - Plant Specific Conditions of the permit. In this case, a permit shield was granted for each emission unit covered by the permit.

INSIGNIFICANT ACTIVITIES

This section provides a list of insignificant emissions units that were reported in the Title V permit application. The applicable Clean Air Act requirements, if any, are listed below the insignificant activity.

(1) No. 44 Fuel burning equipment using gaseous fuels or no. 1 or no. 2 fuel oil, and having a heat input less than 1,000,000 Btu (1.06 gigajoules) per hour;

[For Areas III and IV]

The *affected fuel burning units* are subject to the following requirements:

COMAR 26.11.09.05A(2), which establishes that the Permittee may not cause or permit the discharge of emissions from any fuel burning equipment, other than water in an uncombined form, which is visible to human observers.

Exceptions: COMAR 26.11.09.05A(2) does not apply to emissions during load changing, soot blowing, start-up, or adjustments or occasional cleaning of control equipment if:

(a) The visible emissions are not greater than 40 percent opacity; and

(b) The visible emissions do not occur for more than 6 consecutive minutes in any sixty minute period.

[For Distillate Fuel Oil]

COMAR 26.11.09.07A(2)(b), which establishes that the Permittee may not burn, sell, or make available for sale any distillate fuel with a sulfur content by weight in excess of 0.3 percent.

See Table IV-4 for additional Requirements.

(2) No. 87 Stationary internal combustion engines with an output less than 500 brake horsepower (373 kilowatts) and which are not used to generate electricity for sale or for peak or load shaving;

The *affected units* are subject to the following requirements:

(A) COMAR 26.11.09.05E(2), Emissions During Idle Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.

(B) COMAR 26.11.09.05E(3), Emissions During Operating Mode: The Permittee may not cause or permit the discharge of emissions from any engine, operating at other than idle conditions, greater than 40 percent opacity.

(C) Exceptions:
(i) COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 consecutive minutes for the purpose of clearing the exhaust system.
(ii) COMAR 26.11.09.05E(2) does not apply to emissions resulting directly from cold engine start-up and warm-up for the following maximum periods:
(a) Engines that are idled continuously when not in service: 30 minutes
(b) all other engines: 15 minutes.
(iii) COMAR 26.11.09.05E(2) & (3) do not apply while maintenance, repair or testing is being performed by qualified mechanics.

(3) ✓ Space heaters utilizing direct heat transfer and used solely for comfort heat;

(4) ✓ Water cooling towers and water cooling ponds unless used for evaporative cooling of water from barometric jets or barometric condensers, or used in conjunction with an installation requiring a permit to operate;

(5) ✓ Commercial bakery ovens with a rated heat input capacity of less than 2,000,000 Btu per hour;

(6) ✓ Kilns used for firing ceramic ware, heated exclusively by natural gas, liquefied petroleum gas, electricity, or any combination of these;

(7) ✓ Confection cookers where the products are edible and intended for human consumption;

(8) ✓ Photographic process equipment used to reproduce an image upon sensitized material through the use of radiant energy;

(9) ✓ Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;

(10) ✓ Brazing, soldering, or welding equipment, and cutting torches related to manufacturing and construction activities that emit HAP metals and not directly related to plant maintenance, upkeep and repair or maintenance shop activities;

(11) ✓ Equipment for washing or drying products fabricated from metal or glass, provided that no VOC is used in the process and that no oil or solid fuel is burned;

(12) Containers, reservoirs, or tanks used exclusively for:

(a) ✓ Storage of butane, propane, or liquefied petroleum, or natural gas;

(b) No. 365 Storage of lubricating oils;

(c) No. 394 Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;

(d) No. 14 Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;

(13) ✓ Charbroilers and pit barbecues as defined in COMAR 26.11.18.01 with a total cooking area of 5 square feet (0.46 square meter) or less;

(14) ✓ First aid and emergency medical care provided at the facility, including related activities such as sterilization and medicine preparation used in support of a manufacturing or production process;

(15) ✓ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;

(16) ✓ Firing and testing of military weapons and explosives;

(17) ✓ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;

(18) ✓ Laboratory fume hoods and vents;

For the following, attach additional pages as necessary:

(19) any other emissions unit, not listed in this section, with a potential to emit less than the "de minimus" levels listed in COMAR 26.11.02.10X (list and describe units):

No. 1 Building 6004 – Four (4) Paint Spray Booths used for miscellaneous metal coating.

No. 1 Fire Safety Test Enclosure

any other emissions unit at the facility which is not subject to an applicable requirement of the Clean Air Act (list and describe):

No. 1 See Exempt Emission Unit List. (in the Table below).

Reference: Memorandum dated August 2, 1996 from John S. Seitz, Director of Office of Air Quality Planning and Standards (MD-10), Subject: Major Source Determination for Military Installations under the Air Toxics, New Source Review, and Title V Operating Permit Programs of the Clean Air Act.

U. S. ARMY GARRISON ABERDEEN PROVING GROUND
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PART 70 OPERATING PERMIT NO. 24-025-0081
FACT SHEET

Emission Unit No.	MDE Registration Number	Emission Unit Description	Facility Description
26-2379-A01	025-4-0619	Fuel oil boiler	Auto Craft Shop
26-2401-A01	025-0081-4-0619	Fuel oil boiler	PX
26-2502-A01 & A02	12-5-0152	Natural gas/No.2 fuel oil-fired boilers	Kirk Army Health Clinic
26-2522-A01	12-4-0619	Fuel Oil Boiler, 1.054 MMBtu/hr	Youth Center
26-3245-A01	025-0081-5-0152	Natural gas/No. 2 fuel oil-fired boiler	NEC
26-3300-A01	12-5-0152	Natural gas-fired Boiler	Physical Fitness Center (DFMWR)
26-3326-A02	025-0081-5-0152	Natural gas-fired boiler	Recreation Center (DFMWR)
26-3330-A01 & A02	12-5-0152	Natural gas-fired boilers	Gym (DFMWR)
26-3400-A02	12-5-0152	Natural gas boiler	Commissary (DECA)
35-2514-A01 through A03	12-9-0152	UST	AAFES Gas Station
99-2379-A01	12-6-0202	Vehicle Refinishing PSB	Auto Craft Shop

STATE ONLY ENFORCEABLE REQUIREMENTS

This section of the permit contain state-only enforceable requirements. The requirements in this section will not be enforced by the U.S. Environmental Protection Agency. The requirements in this section are not subject to COMAR 26.11.03 10 - Public Petitions for Review to EPA Regarding Part 70 Permits.

1. Applicable Regulations:
   (A) COMAR 26.11.06.08 – Nuisance. An installation or premises may not be operated or maintained in such a manner that a nuisance or air pollution is created. Nothing in this regulation relating to the control of emissions may in any manner be consumed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution."

   (B) COMAR 26.11.06.09 - Odors. "A person may not cause or permit the discharge into the atmosphere of gases, vapors, or odors beyond the property line in such a manner that a nuisance or air pollution is created."

   (C) COMAR 26.11.15.05, which requires that the Permittee implement "Best Available Control Technology for Toxics" (T – BACT) to control emissions of toxic air pollutants.

   (D) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions will unreasonably endanger human health

2. Record Keeping and Reporting:

   The Permittee shall submit to the Department, by April 1 of each year during the term of this permit, a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. The analysis shall include either:

   (a) a statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or

   (b) a revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.