



**Maryland**  
Department of  
the Environment

Larry Hogan, Governor  
Boyd Rutherford, Lt. Governor

Ben Grumbles, Secretary  
Horacio Tablada, Deputy Secretary

NOV 16 2021

Ms. Rhonda B. Wolfe, Air Program Manager  
U.S. Army Garrison at Fort Detrick  
201 Beasley Drive, Suite 230  
Fort Detrick, MD 21702-9229

Dear Ms. Wolfe:

Re: Renewal Part 70/ Title V Operating Permit # 24-021-00131

Enclosed, please find the renewal Part 70/Title V Operating Permit and Fact Sheet for the US Army Garrison at fort Detrick located in Frederick County, MD. The permit will expire on August 31, 2026.

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

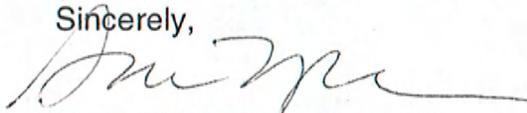
If the Department denies a Part 70 permit or issues it with terms and conditions that are objectionable to the applicant, the applicant may request that a contested case hearing be held regarding the permit. This request shall be made to the Department in writing not later than 15 days after the applicant 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. Mario Cora, the permit manager for this facility, at [mario.cora@maryland.gov](mailto:mario.cora@maryland.gov) or (410) 537-3230.

Sincerely,



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

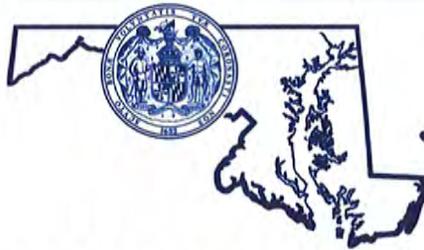
SYS/jm

Enclosures

cc: EPA Region III (w/encl)

Larry Hogan  
Governor

*State of*



*Maryland*

Ben Grumbles  
Secretary

**DEPARTMENT OF THE ENVIRONMENT**

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

Construction Permit

Part 70  
 Operating Permit

NOV 16 2021

PERMIT NO. 24-021-00131

DATE ISSUED \_\_\_\_\_

PERMIT FEE To be paid in accordance with COMAR 26.11.02.19B

EXPIRATION DATE August 31, 2026

**LEGAL OWNER & ADDRESS**

U.S. Army Garrison at Fort Detrick  
201 Beasley Drive, Suite 230  
Fort Detrick, MD 21702-9229  
Attn: Ms. Rhonda B. Wolf  
Air Program Manager

**SITE**

Fort Detrick – Area A  
Frederick, MD 21701  
Frederick County  
A.I.#1790

**SOURCE DESCRIPTION**

A military installation with boilers, incinerators, and emergency generators.

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

Program Manager

Director, Air and Radiation Administration

**U. S. ARMY GARRISON AT FORT DETRICK  
201 BEASLEY DRIVE, FREDERICK, MD 21702-5000  
PART 70 OPERATING PERMIT NO. 24-021-00131**

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**SECTION I SOURCE IDENTIFICATION**

**1. DESCRIPTION OF FACILITY**

Fort Detrick is a Federal military installation located within the city limits of Frederick, Maryland, comprised of the following four noncontiguous parcels: Main Post (728 acres); Area B, including the FLAIR Armory (399 acres); Water Treatment Plant (7 acres); and Sewage Treatment Plant (9 acres). Only the Main Post is subject to Part 70 permitting because its potential emissions are above major source threshold levels for all criteria pollutants, except lead.

Fort Detrick houses several medical research laboratories and a worldwide communications area providing a “hot line” to Moscow and satellite dishes for satellite tracking. Consequently, the facility’s equipment list includes steam generating boilers, space heating boilers, several incinerators, and emergency generators.

The SIC code for the facility is 9711.

**2. FACILITY INVENTORY LIST**

<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
A8 and A9	021-0131-4-0185 and 4-0186	Boiler	Two (2) Burnham Model 4F-450, No. 2 fuel-oil boilers, each rated at 3.35 MMBtu/hr, located in Bldg 1673.	12/1986 and 01/1988
A8-1 and A9-1	021-0131-4-0278 and -4-0279	Boiler	Two (2) Burnham natural gas and No. 2 fuel oil-fired boilers, each rated at 3.35 MMBtu/hr, located in Bldg. 1673.	09/2013
A15	021-0131-5-0231	Boiler	One (1) Peerless Model #G-LC-09-WUP natural gas-fired boiler, rated at 1.664 MMBtu/hr, located in Bldg. 1435.	6/29/98
A16	021-0131-5-0239	Boiler	One (1) H.B. Smith Co. Inc. Model 28A-7 natural gas-fired boiler, rated at 2.163 MMBtu/hr, located at Bldg. 1507.	1/19/00
A20-1	021-0131-5-0346	Boiler	One (1) PVI Industries Model 3000P natural gas fired boiler rated at 2.4 MMBtu/hr located in Bldg. 1507	06/2000
A21	021-0131-5-0292	Boiler	One (1) Weil-McLain Model	01/2006

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<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
			1088 natural gas fired boiler rated at 2.887 MMBtu/hr, located in Bldg. 1529	
A23	021-0131-5-0323	Boiler	One (1) Raypak Model # P-1223 natural gas fired boiler rated at 1.223 MMBtu/hr, located at Bldg 1507	08/20/2004
A24 and A25	021-0131-5-0377 and 5 - 0378	Boiler	Two (2) Bryan Model CLN-270-W natural gas fired boilers rated at 2.7 million Btu/hr, located at Bldg. 693	07/2008
A26 and A27	021-0131-5-0381 and - 0382	Boiler	Two (2) Weil-McLain Mdl 980 natural gas fired boilers rated at 1.23 million Btu/hr, located at Bldgs. 1545 and 1546	02/2007
A28	021-0131-5-0457	Boiler	One (1) Fulton Model PHW-1400 natural gas-fired boiler rated at 1.4 million Btu/hr, located in Bldg. 1419	12/3/2012
A0503, A0504, and A0505	021-131-5-0503, 5-0504 and -5-0505	Boiler	Three (3) Hydrotherm (Model KN-16) natural gas-fired boilers, each rated at 1.6 MMBTU/hr, located Bldg 1430, and 1532, respectively.	5/22/2017 & 2/3/2017
A0506, and A0507	021-131-5-0506 and -5-0507	Boiler	Two (2) Hurst (Model S4-125-150S) natural gas-fired boilers, each rated at 4.184 MMBTU/hr, located Bldg 267.	8/27/2018
A0508, A0509, and A0510	021-131-5-0508, 5-0509 and -5-0510	Boiler	Three (3) Hurst (Model 4VT-100-125S) natural gas-fired boilers, each rated at 3.348 MMBTU/hr, located Bldg 370.	8/27/2018

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<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
A0511, and A0512	021-131-5-0511 and -5-0512	Boiler	Two (2) Hurst (Model 4VT-1S-0050-0150) natural gas-fired boilers, each rated at 1.674 MMBTU/hr, located Bldg 397.	8/27/2018
A0513	021-131-5-0513	Boiler	One (1) natural gas-fired boiler (Smith Model G28HE-s-10), each rated at 2.511 MMBTU/hr, located Bldg 516.	8/27/2018
A0514	021-131-5-0514	Boiler	One (1) natural gas-fired boiler (Hydrotherm Model KN-10) rated at 1.0 MMBTU/hr, located Bldg 525.	1/5/2018
A0515, and A0516	021-131-5-0515 and -5-0516	Boiler	Two (2) Hydrotherm (Model KN-26) natural gas-fired boilers, each rated at 2.6 MMBTU/hr, located Bldg 397.	9/12/2017
A0517	021-131-5-0517	Boiler	One (1) Smith (Model G28HE-S-12) natural gas-fired boiler, rated at 3.046 MMBTU/hr, located Bldg 1079.	5/31/2018
A0518 and A0519	021-131-5-0518 and -5-0519	Boiler	Two (2) Hydrotherm (Model KN-30) natural gas-fired boilers, each rated at 3.0 MMBTU/hr, located Bldg 568.	9/12/2017
A0520 and A0521	021-131-5-0520, and 5-0521	Boiler	Two (2) Hurst (Model 400-150) natural gas-fired boilers, each rated at 5.021 MMBTU/hr, located Bldg 1299.	2/21/2019
A0522	021-131-5-0522	Boiler	One (1) Hydrotherm (Model KN-10) natural gas-fired boiler, rated at 1.0 MMBTU/hr, located Bldg 1422.	9/12/2017

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<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
A0523	021-131-5-0523	Boiler	One (1) Hurst (Model 400-150) natural gas-fired boiler, rated at 5.021 MMBTU/hr, located Bldg 1299.	2/21/2019
A0524	021-131-5-0524	Boiler	One (1) Hydrotherm (Model KN-10) natural gas-fired boiler, rated at 1.0 MMBTU/hr, located Bldg 1422.	9/12/2017
A0525	021-131-5-0525	Boiler	One (1) Hydrotherm (Model KN-16) natural gas-fired boiler, rated at 1.6 MMBTU/hr, located Bldg 1532.	2/3/2017
B5 and B6	021-0131-2-0066 and 2-0067	Incinerator	Two (2) hospital, medical, and infectious waste incinerators (HMIWI), each rated at 1,000 lb/hr and each equipped with an emissions control system and a waste heat recovery boiler, located in Bldg. 393	06/1995
C1 and C2	021-0131-9-0101 and 9-0102	Emergency Diesel Generators	Two (2) 993 kW diesel fuel-fired generators, Alban and Caterpillar, located in Bldg. 1425	01/1985
C3 thru C6	021-0131-9-0148 (registered as a group)	Emergency Diesel Generators	Four (4) 2,000 kW diesel fuel-fired generators, Williams and Lane, located in Bldg. 1673	1985
C7	021-0131-9-0153	Emergency Diesel Generator	One (1) 900 kW diesel fuel-fired generator, Caterpillar, located in Bldg 1420	05/1996
C8	021-0131-9-0155	Emergency Diesel Generator	One (1) 880 kW diesel fuel-fired Caterpillar Model 3508 generator located in Bldg. 1414	09/2000
C9	021-0131-9-0202	Emergency Diesel Generator	One (1) 1,502 BHP (1000 kW) diesel fuel-fired Caterpillar Model 3508 generator located in Bldg. 1414	09/2004

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<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
C10	021-0131-9-0205	Emergency Diesel Generator	One (1) 2,876 BHP (2000 kW) diesel fuel-fired Caterpillar Model 3516/SR4B generator located in Bldg. 1425	09/2004
C11	021-0131-9-0312	Emergency Diesel Generator	One (1) 600 kW Kohler Model 600REOZv located in Bldg 693	05/2011
C13	021-0131-9-0209	Emergency Diesel Generator	One (1) 685 BHP (511 kW) diesel fuel-fired generator, Perkins Model CV12TA-RG3 located at Bldg. 810	09/1988
C14	021-0131-9-0317	Emergency Diesel Generator	One (1) 1000 kW Kohler Model 1000REOZMB located in Bldg 568	09/2011
C15	021-0131-9-0353	Emergency Diesel Generator	One (1) 2000 kW Caterpillar Model SR45/3516C located in Bldg 8100	12/2012
C16	021-0131-9-0354	Emergency Diesel Generator	One (1) 500 kW Kohler Model 500REOZJ located in Bldg 1419	12/2012
F1	021-0131-9-0146	Gasoline Storage tanks	Two (2) 12,000-gallon underground gasoline storage tanks, using Stage I vapor recovery systems, fuel feed to 6 dispensers which use Stage II vapor recovery systems	06/2004

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PART 70 OPERATING PERMIT NO. 24-021-00131**

**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**

ARMA	Air and Radiation Management 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 <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
NSR	New Source Review
OTR	Ozone Transport Region
PM	Particulate Matter
PM10	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 <sub>2</sub>	Sulfur Dioxide
TAP	Toxic Air Pollutant
tpy	tons per year
VE	Visible Emissions
VOC	Volatile Organic Compounds

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PART 70 OPERATING PERMIT NO. 24-021-00131**

**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,

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PART 70 OPERATING PERMIT NO. 24-021-00131**

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.

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PART 70 OPERATING PERMIT NO. 24-021-00131**

**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:

**U. S. ARMY GARRISON AT FORT DETRICK  
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PART 70 OPERATING PERMIT NO. 24-021-00131**

- 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.

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**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

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(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.

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- (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;

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- (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;

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- (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.

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**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;

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- (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.

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**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.

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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.

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**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.

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**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.

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**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.

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**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

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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.

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**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;

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- (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.

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**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.

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**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.

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- 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 performing maintenance, service, repairs or disposal of appliances shall certify with the Administrator pursuant to 40 CFR 82.162.
- e. 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 82.166.
- f. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
- g. 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

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**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. **[Authority: COMAR 26.11.03.06C(5)(g)]**

<b>4.1.1</b>	<p><b><u>Emissions Unit Number(s)</u></b></p> <p><b>EU: A8 and A9 [MDE Reg. Nos. 4-0185 and 4-0186]</b> Two (2) Burnham (Model 4F-450) No. 2-fired boilers, each rated at 3.35 MMBtu/hr, located in Bldg 1673. Installed on December 1986 &amp; January 1988.</p> <p><b>EU: A8-1 and A9-1 [MDE Reg. Nos. 4-0278 and 4-0279]</b> Two (2) Burnham (Model 4F-450) natural gas and No. 2-fired boilers, each rated at 3.35 MMBtu/hr, located in Bldg 1673. Installed on September 2013.</p>
<b>4.1.2</b>	<p><b><u>Applicable Standards/Limits:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b> <b>[COMAR 26.11.06.02C(1)] – Visible Emission Standards.</b> “In Areas I, II, V and VI, a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.”</p> <p><b>[COMAR 26.11.06.02A(2)] – Exception.</b> “The visible emissions standards in C of this regulation do not apply to emissions during start-up and process modification 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 60 minute period.”</p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b> “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:</p> <p>(c) Distillate fuel oils, 0.3 percent;” <b>[Reference: COMAR 26.11.09.07A(2)]</b></p>

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**C. Control of Nitrogen Oxides**

**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 NO<sub>x</sub> 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 Limitations**

The following requirements apply:

- (1) The Permittee shall burn only No. 2 fuel oil in units A8 and A9 and only No. 2 fuel oil or natural gas in units A8-1 and A9-1 unless the Permittee applies for and receives an approval or permit from the Department to burn an alternative fuel. **[Authority: COMAR 26.11.02.09A]**
- (2) The Permittee shall conduct initial and subsequent boiler tune-ups in accordance with the procedures specified in §63.11223(b): **[Authority: 40 CFR 63, Subpart JJJJJJ, §63.11201(b), §63.11214(b), §63.11223, and, Table 2, item 12]**
  - (a) Prior to the issuance of this Part 70 Permit, the Permittee shall complete an initial tune-up of the boilers A8, A9, A8-1, and A9-1 and submit the required Notifications of Compliance Status to the EPA.

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	<p>(b) The Permittee shall conduct subsequent tune-ups of each boiler every 5 years. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.</p>
<p><b>4.1.3</b></p>	<p><b><u>Testing Requirements:</u></b>  See Monitoring Requirements.</p>
<p><b>4.1.4</b></p>	<p><b><u>Monitoring Requirements:</u></b></p> <p><b>A.</b> The Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions. <b>[Authority: COMAR 26.11.03.06C(3) ]</b></p> <p><b>B.</b> The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of fuel oil. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b>C.</b> The Permittee shall develop and implement an operations and maintenance plan. <b>[Authority: COMAR 26.11.09.08F(1)]</b></p> <p><b>D.</b> See Recordkeeping and Reporting Requirements.</p>
<p><b>4.1.5</b></p>	<p><b><u>Record Keeping Requirements:</u></b> NOTE: All records must be maintained for a period of 5 years. <b>[Authority: COMAR 26.11.03.06C(5)(g)]</b></p> <p><b>A.</b> The Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. <b>[Authority: COMAR 26.11.03.06C(3) ]</b></p> <p><b>B.</b> The Permittee shall retain fuel supplier certifications stating that the fuel oil is in compliance with this regulation. <b>[Authority: COMAR 26.11.09.07C]</b></p> <p><b>C.</b> The Permittee shall maintain:</p> <p>(1) The operating and maintenance plan at the premises. <b>[Authority: COMAR 26.11.09.08F(1)(c)]</b></p> <p>(2) Records of training program attendance for each operator on site for at least 5 years. <b>[Authority: COMAR 26.11.09.08F(1)(e)]</b></p> <p>(3) Records of fuel use which demonstrate that the boiler meets the definition of a space heater. <b>[Authority COMAR 26.11.09.08K(3) and COMAR 26.11.03.06C(3) ]</b></p> <p><b>D.</b> The following requirements apply:</p> <p>(1) The Permittee shall maintain a record of the quantity each type of fuel burned. <b>[Authority: COMAR 26.11.02.19C(1)(c)]</b></p>

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(2) The Permittee shall maintain the records and copies of all notifications and reports required by 40 CFR §63.11225(c) and (d) make them available to the Department and EPA upon request. The following paragraphs apply:  
**[Authority: §63.11225]**

§63.11225(c)(1) requires the Permittee to keep a copy of each notification and report submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status submitted.

§63.11225(c)(2) requires the Permittee to keep records to document conformance with the work practices, emission reduction measures, and management practices required by §63.11223. §63.11225(c)(2)(i) requires that 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.

With regard to the tune-up every 5 years, in accordance with §63.11223(b)(6), the Permittee must maintain the following information:  
**[Authority: condition E(1), PTC 021-0132-4-0278 and 4-0279 issued on July 16, 2014, and 40 CFR §63.11223(b)(6)]**

- (a) The concentration 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;
- (b) A description of any corrective actions taken as part of the tune-up of the boiler.
- (c) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if was physically and legally capable of using more than one type of fuel during that period. Units using a shared fuel meter may estimate the fuel use by each unit.

§63.11225(c)(4) Records of the occurrence and duration of each malfunction of the boiler or of the associated pollution control equipment affecting compliance with a Subpart JJJJJ requirement

§63.11225(c)(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with general duty to minimize emissions in 63,11205(a), including corrective actions to restore the malfunctioning boiler, air pollution or monitoring equipment to its normal or usual manner

§63.11225(d) The 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 by 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

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	years.
<b>4.1.6</b>	<p><b><u>Reporting Requirements:</u></b></p> <p><b>A.</b> 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."</p> <p><b>B.</b> The Permittee shall report fuel supplier certifications to the Department upon request. <b>[Authority: COMAR 26.11.09.07C]</b></p> <p><b>C.</b> The following requirements apply:</p> <p>(1) The Permittee shall submit a list of trained operators and training program attendance to the Department upon request. <b>[Authority: COMAR 26.11.09.08E(5)];</b></p> <p>(2) The Permittee shall inform the Department no later than 60 days after the date when the boilers no longer qualify as a space heater, and shall meet the requirements under COMAR 26.11.09.08E or identify an alternative NOx RACT requirement under COMAR 26.11.09.08 with which the source will comply. <b>[Authority: COMAR 26.11.09.08F(2)]</b></p> <p><b>D.</b> The following requirements apply:</p> <p>(1) The Permittee shall submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. <b>[Authority: COMAR 26.11.02.19C(2)]</b></p> <p>(2) The Permittee is required to submit the following notifications and reports to the Administrator [Authority: §63.11225]:</p> <p>(a) An Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to 40CFR 63, Subpart JJJJJJ. <b>[Reference: §63.11225(a)(2)]</b> <b>Note:</b> For units A8 and A9, the required initial notification of applicability was submitted to EPA and MDE on September 13, 2011. For units A8-1 and A9-1, the initial notification was submitted late on March 10, 2014.</p> <p>(b) The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs §63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. <b>[Reference: §63.11225(a)(4)]</b></p> <p>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).... <b>[Reference: §63.11225(a)(4)(i)]</b></p> <p>(c) Every five (5) years, by March 1 after the tune-ups are conducted, the</p>

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	<p>Permittee must prepare and submit to the delegated authority, upon request, a compliance certification report that contains the following information [<b>Authority: condition E(2), PTC 021-0132-4-0278 and -4-279 issued on July 16, 2014; 40 CFR§63.11225(b)</b>]:</p> <ul style="list-style-type: none"><li>(i) Company name and address.</li><li>(ii) 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:<ul style="list-style-type: none"><li>a. "This facility complies with the requirements in §63.11223 to conduct a 5-year tune-up of each boiler."</li><li>b. 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 action taken.</li></ul></li></ul>
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<b>4.2.1</b>	<p><b><u>Emissions Unit Number(s)</u></b></p> <p><b>EU A15:</b> One (1) natural gas-fired boiler rated at 1.664 MMBtu/hr, located in Bldg 1435.</p> <p><b>EU A16:</b> One (1) natural gas-fired boiler rated at 2.163 MMBtu/hr, located in Bldg 1507.</p> <p><b>EU A20-1:</b> One (1) natural gas fired boiler rated at 2.4 MMBTU/hr, located in Bldg 1507.</p> <p><b>EU A21:</b> One (1) natural gas-fired boiler rated at 2.887 MMBTU/hr, located in Bldg 1529.</p> <p><b>EU A23:</b> One (1) natural gas-fired boiler rated at 1.223 MMBTU/hr, located in Bldg 1507.</p> <p><b>EU A24 and A25:</b> Two (2) natural gas-fired boilers, each rated at 2.7 MMBTU/hr, located in Bldg 693.</p> <p><b>EU A26 and A27:</b> Two (2) natural gas-fired boilers, each rated at 1.23 MMBTU/hr, located in Bldg 1545 and 1546, respectively.</p> <p><b>EU A28:</b> One (1) natural gas-fired boiler rated at 1.4 MMBTU/hr, located in Bldg</p>
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	<p>1419.</p> <p><b>EU A0503, A0504, and A0505:</b> Three (3) natural gas-fired boilers, each rated at 1.6 MMBTU/hr, located Bldg 1430, and 1532, respectively.</p> <p><b>EU A0506, and A0507:</b> Two (2) natural gas-fired boilers, each rated at 4.184 MMBTU/hr, located Bldg 267.</p> <p><b>EU A0506, A0509, and A0510:</b> Three (3) natural gas-fired boilers, each rated at 3.348 MMBTU/hr, located Bldg 370.</p> <p><b>EU A0511, and A0512:</b> Two (2) natural gas-fired boilers, each rated at 1.674 MMBTU/hr, located Bldg 397.</p> <p><b>EU A0513:</b> One (1) natural gas-fired boiler, rated at 2.511 MMBTU/hr, located Bldg 516.</p> <p><b>EU A0514:</b> One (1) natural gas-fired boiler, rated at 1.0 MMBTU/hr, located Bldg 525.</p> <p><b>EU A0515 and A0516:</b> Two (2) natural gas-fired boilers, each rated at 2.6 MMBTU/hr, located Bldg 397.</p> <p><b>EU A0517:</b> One (1) natural gas-fired boiler, rated at 3.046 MMBTU/hr, located Bldg 1079.</p> <p><b>EU A0518 and A0519:</b> Two (2) natural gas-fired boilers, each rated at 3.0 MMBTU/hr, located Bldg 568.</p> <p><b>EU A0520 and A0521:</b> Two (2) natural gas-fired boilers, each rated at 5.021 MMBTU/hr, located Bldg 1299.</p> <p><b>EU A0522:</b> One (1) natural gas-fired boiler rated at 1.0 MMBTU/hr, located Bldg 1422.</p> <p><b>EU A0523:</b> One (1) natural gas-fired boiler rated at 5.021 MMBTU/hr, located Bldg 1299.</p> <p><b>EU A0524:</b> One (1) natural gas-fired boiler rated at 1.0 MMBTU/hr, located Bldg 1422.</p> <p><b>EU A0525:</b> One (1) natural gas-fired boiler rated at 1.6 MMBTU/hr, located Bldg 1532.</p>
<p><b>4.2.2</b></p>	<p><b><u>Applicable Standards/Limits:</u></b></p> <p><b>A. <u>Control of Visible Emissions</u></b>  <b>[COMAR 26.11.06.02C(1)] – Visible Emission Standards.</b>          “In Areas I, II, V and VI, a person may not cause or permit the discharge of</p>

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emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.”

**[COMAR 26.11.06.02A(2)] – Exception.**

“The visible emissions standards in C of this regulation do not apply to emissions during start-up and process modification 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 60 minute period.”

**B. Control of Nitrogen Oxides**

**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 NO<sub>x</sub> 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.”

**C. Operational Limitations**

The Permittee shall burn only natural gas unless the Permittee applies for and receives an approval or permit from the Department to burn an alternative fuel.  
**[Authority: COMAR 26.11.02.09A]**

**4.2.3 Testing Requirements:**

See Monitoring Requirements.

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<b>4.2.4</b>	<b><u>Monitoring Requirements:</u></b>  <b>A.</b> The Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions. <b>[Authority: COMAR 26.11.03.06C(3)]</b>  <b>B.</b> The Permittee shall develop and implement an operations and maintenance plan. <b>[Authority: COMAR 26.11.09.08F(1)]</b>  <b>C.</b> See Recordkeeping and Reporting Requirements.
<b>4.2.5</b>	<b><u>Record Keeping Requirements:</u></b> NOTE: All records must be maintained for a period of 5 years. <b>[Authority: COMAR 26.11.03.06C(5)(g)]</b>  <b>A.</b> The Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. <b>[Authority: COMAR 26.11.03.06C(3)]</b>  <b>B.</b> The Permittee shall maintain:  (1) The operating and maintenance plan at the premises. <b>[Authority: COMAR 26.11.09.08F(1)(c)]</b>  (2) Records of training program attendance for each operator on site for at least 5 years. <b>[Authority: COMAR 26.11.09.08F(1)(e)]</b>  (3) Records of fuel use that demonstrate the boiler meets the definition of a space heater. <b>[Authority: COMAR 26.11.09.08K(3) and COMAR 26.11.03.06C(3)]</b>  <b>C.</b> The Permittee shall maintain a record of the quantity each type of fuel burned. <b>[Authority: COMAR 26.11.02.19C(1)(c)]</b>
<b>4.2.6</b>	<b><u>Reporting Requirements:</u></b>  <b>A.</b> 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>B.</b> The Permittee shall:  (1) Submit a list of trained operators and training program attendance to the Department upon request. <b>[Authority: COMAR 26.11.09.08E(5)]</b>  (2) Inform the Department no later than 60 days after the date when the boilers no longer qualify as a space heater, and shall meet the requirements under COMAR 26.11.09.08E or identify an alternative NOx RACT requirement under COMAR 26.11.09.08 with which the source will comply. <b>[Authority: COMAR 26.11.09.08F(2)]</b>  <b>C.</b> The Permittee shall submit a record of the quantity of each type of fuel burned

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	with the annual emissions certification report that is due April 1 of each year. <b>[Authority: COMAR 26.11.02.19C(2)]</b>
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<b>4.3.1</b>	<b><u>Emissions Unit Number(s)</u></b>  <b>EU: B5 and B6: [MDE Reg. No. 021-0131-2-0066 and 2-0067]</b> Two (2) hospital, medical, and infectious waste incinerators (HMIWI), each rated at 1,000 lb/hr, each with a rotary atomizing scrubber, a pre-particulate filter, an activated carbon adsorption module, and a post-particulate filter, for PM, metals, dioxins/furans, and acid gas emissions control, and a waste heat recovery boiler. Installed June 1995
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<b>4.3.2</b>	<b><u>Applicable Standards/Limits:</u></b>  <b>A. <u>Emission Standards and Requirements for HMIWIs Under 40 CFR 60 Subpart Ce as Revised October 6, 2009.</u> – [COMAR 26.11.08.08-2]</b>  <b><u>Applicability and Emission Standards.</u> – [COMAR 26.11.08.08-2A]</b> The emission standards and requirements of §B(1)—(7) and §C(1)—(6) of this regulation apply to a person who owns or operates an HMIWI subject to 40 CFR Part 60, Subpart Ce, as revised, October 6, 2009.  <b><u>Emission Limits and Requirements for Small, Medium, and Large HMIWIs.</u> – [COMAR 26.11.08.08-2B (1)]</b> “A person who owns or operates a small, medium, or large HMIWI for which construction was commenced on or before June 20, 1996 or for which modification commenced on or before March 16, 1998 shall comply with the following emission limits.”  The source is also subject to the stack opacity limits following emission standards for large HMIWIs as promulgated on October 6, 2009. <b>[Authority: 40 CFR 62, Subpart HHH, §62.14411 -12(a)]</b> 40 CFR 62, Subpart HHH, §62.14412(a) states: “Your HMIWI (regardless of size category) must not discharge into the atmosphere from the stack any gases that exhibit greater than 6 percent opacity (6-minute block average).” The emission limits, stack opacity, and visible emissions of this subpart apply at all times. <b>[Authority: 40 CFR 60, Subpart Ce, §60.56c(a) and 40 CFR 62, Subpart HHH, §62.14413]</b>
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Pollutant	Units (7 percent oxygen, dry basis)	09/15/1997 Emission Limits for Large HMIWI	10/06/2009* Emission Limits For Large HMIWI
PM	milligrams per dry standard cubic meter (gr per dry standard gr/dscf)	34 (0.015)	25 (0.011)

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Opacity	6 minute block average percent	10	6
CO	ppm by volume	40	11
Dioxins/furans	nanograms per dry standard cubic meter total dioxins/furans (gr per billion dscf) or nanograms per dry standard cubic meter TEQ (gr per billion dscm)	125 (55) or 2.3 (1.0)	9.3 (4.1) or 0.054 (0.024)
Hydrogen Chloride (HCl)	ppm by volume or percent reduction	100 or 93%	6.6
SO <sub>2</sub>	ppm by volume	55	9.0
NOx	ppm by volume	250	140
Lead	milligrams per dry standard cubic meter (gr per thousand dscf) or percent reduction	1.2 (0.52) or 70%	0.036 (0.016)
Cadmium	milligrams per dry standard cubic meter (gr per thousand dscf) or percent reduction	0.16 (0.07) or 65%	0.0092 (0.0040)
Mercury	milligrams per dry standard cubic meter (gr per thousand dscf) or percent reduction	0.55 (0.24) or 85%	0.018 (0.0079)

\*On October 6, 2009, revised Emission Guidelines for existing HMIWI were promulgated as a final rule in the Federal Register and are applicable to large HMIWI constructed before June 20, 1996.

**B. Waste Management Plan.** – [COMAR 26.11.08.08-2B(3) [§62.14430 – 32]  
The Permittee shall prepare a Waste Management Plan that identifies the feasibility and the approach to solid waste segregation or material substitution to reduce the amount of toxics emissions. The Waste Management Plan shall meet the requirements of 40 CFR §60.55c, Subpart Ec. A revised Waste Management Plan shall be submitted to the Department within 60 days of completion of the required initial compliance tests under this regulation.

**C. Initial and Annual Equipment and Control Device Inspection**

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**Requirements. – [COMAR 26.11.08.08-2D [§62.14440 – 43]**

- a. **COMAR 26.11.08.08-2D(1)-(3)** specifies the initial and subsequent annual inspection requirements that each HMIWI undergo beginning June 15, 2012 and that all necessary repairs be completed within 10 operating days unless otherwise approved by the Department. The inspections shall include as a minimum the following [**Reference: §62.14442(a)**]:
- (a) Inspect all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot flame sensor, as necessary;
  - (b) Ensure proper adjustment of primary and secondary chamber combustion air, and adjust as necessary;
  - (c) Inspect hinges and door latches, and lubricate as necessary;
  - (d) Inspect dampers, fans, and blowers for proper operation;
  - (e) Inspect HMIWI door and door gaskets for proper sealing;
  - (f) Inspect motors for proper operation;
  - (g) Inspect primary chamber refractory lining; clean and repair or replace lining as necessary;
  - (h) Inspect incinerator shell for corrosion or hot spots, or both;
  - (i) Inspect secondary/tertiary chamber and stack and clean as necessary;
  - (j) Inspect mechanical loader, including limit switches, for proper operation, if applicable;
  - (k) Visually inspect waste bed (grates), and repair or seal, as appropriate;
  - (l) For the burn cycle that follows the inspection, document that the incinerator is operating properly and make any necessary adjustments;
  - (m) Inspect air pollution control device or devices for proper operation, if applicable;
  - (n) Inspect waste heat boiler systems to ensure proper operation, if applicable;
  - (o) Inspect bypass stack components;

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- (p) Ensure proper calibration of thermocouples, sorbent feed systems and any other monitoring equipment;
  - (q) Include inspection elements according to manufacturer's recommendations [**Reference: §62.14442(a)(17)**]; and
  - (r) Generally observe that the equipment is maintained in good operating condition.
- b. **COMAR 26.11.08.08-2D(4)-(5)** specifies that beginning June 15, 2012, the control devices of an HMIWI shall undergo an initial and subsequent annual inspections that include the following [**Reference: §62.14442(b)**]:
- (a) Inspect air pollution control device(s) for proper operation;
  - (b) Ensure proper calibration of thermocouples, sorbent feed systems, and any other monitoring equipment;
  - (c) Include inspection elements according to manufacturer's recommendations [**Reference: §62.14442(b)(3)**];
  - (d) Generally observe that the equipment is maintained in good operating condition; and
  - (e) Within 10 operating days following an air pollution control device inspection, all necessary repairs shall be completed unless the owner or operator obtains written approval from the Department establishing a date whereby all necessary repairs of the designated facility shall be completed.

**D. Operator Training Requirements. – [40 CFR Part 62, Subpart HHH, §62.14420- 21(a)]**

**§62.14420:** "You must have a fully trained and qualified operator, either at your facility or able to be at your facility within 1 hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators."

**§62.14421(a):** "The HMIWI operator can obtain training and qualification through a State-approved program or as provided in paragraph (b) of this section"

**Certification and Operation Requirement. – COMAR 26.11.08.09B**

"A person may not operate or allow an incinerator to be operated unless the owner certifies to the Department on a form provided by the Department that each incinerator operator:"

- (1) has completed an initial training course approved by the Department which meets the requirements of section COMAR 26.11.08.09C or D of this

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	<p>regulation;</p> <p>(2) annually, after initial certification, completes a review course approved by the Department; and</p> <p>(3) that a properly trained incinerator operator is present at all times whenever the incinerator is in operation.</p> <p><b><u>Training Course for Operators of Special Medical Waste or Industrial Waste Incinerators.</u> – COMAR 26.11.08.09C</b></p> <p>(1) For any incinerator operator who operates a special medical waste or industrial waste incinerator, the training course shall be the “Hospital Incinerator Operator Training course” Volumes I—III (EPA-450/3-89-003, EPA-450/3-89-004, EPA-450/3-89-010, respectively), Control Technology Center, March 1989, which is incorporated by reference, and “Operation and Maintenance of Hospital Medical Waste Incinerators” (EPA-450/3-89-002), Control Technology Center, March 1989, which is incorporated by reference.</p> <p>(2) For the operator of any special medical waste or an industrial waste incinerator, completing a training course means:</p> <p>(a) completing an initial training course approved by the Department of at least 3 days (24 hours) duration; and</p> <p>(b) passing a written test approved by the Department.</p> <p>(3) The certified operator shall, after initial training, complete and pass an annual review course approved by the Department of at least 1 day (8 hours) duration.</p> <p>(4) For an HMIWI subject to the requirements of this chapter, a person is qualified to operate an HMIWI if the person passes the training course required in §C(2) and (3) of this regulation and complies with the requirements in 40 CFR §60.53c(d).</p>
<p><b>4.3.3</b></p>	<p><b><u>Testing Requirements:</u></b></p> <p><b>A. <u>Emission Standards and Requirements for HMIWIs Under 40 CFR 60 Subpart Ce as Revised October 6, 2009</u></b></p> <p>(1) Except as provided in A(2) below, the Permittee shall demonstrate initial compliance with the October 6, 2009 emission limits for PM, opacity, CO, dioxin/furan, Pb, Cd, Hg, SO<sub>2</sub>, and NO<sub>x</sub> by conducting initial performance tests on each incinerator train no later than 180 days after the final compliance date October 6, 2014 on each incinerator train using the applicable procedures and test methods listed in §60.56c(b)(1) through (14) cited below. The use of the bypass stack during a performance test shall</p>

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invalidate the performance test. **[Authority: 40 CFR 62, Subpart HHH, §62.14451(a) and §62.14452(r); COMAR 26.11.08.08-2B(4), which references §60.56c; §60.56c(b) –(c)]**

(2) For opacity, CO, SO<sub>2</sub>, and NO<sub>x</sub>, the Permittee may use the results of previous emissions tests to demonstrate compliance with the emission limits provided the emissions tests meet the criteria specified in paragraphs §60.37e(f) and §62.14451(e). **[Authority: 40 CFR 62, Subpart HHH, §62.14451(a) and (e)]**

<b>Pollutant or Parameter</b>	<b>40 CFR 60, Subpart Ec Reference</b>	<b>40 CFR 62, Subpart HHH Reference</b>	<b>Reference Method (40 CFR Part 60, Appendix A)</b>
Sampling location and number of traverse points	§60.56c(b)(3)	§62.14452(c)	Method 1, Appendix A-1
Gas composition analysis, including oxygen concentration	§60.56c(b)(4)	§62.14452(d)	Method 3, 3A or 3B, Appendix A-2
Particulate Emissions (PM)	§60.56c(b)(6)	§62.14452(f)	Method 5, Appendix A-3, or Method 26A, Appendix A-8, or Method 29, Appendix A-8
Stack Opacity	§60.56c(b)(9)	§62.14452(i)	Method 9, Appendix A-4
Carbon Monoxide (CO)	§60.56c(b)(10)	§62.14452(j)	Method 10 or 10B, Appendix A-4
Dioxins/Furans	§60.56c(b)(11)	§62.14452(k)	Method 23, Appendix A-7
Hydrogen Chloride (HCl)	§60.56c(b)(12)	§62.14452(l)	Method 26 or 26A, Appendix A-8
Sulfur Dioxide (SO <sub>2</sub> )	§60.56c(b)(8)	§62.14452(g)	Method 6 or 6C, Appendix A-4
Nitrogen Oxides (NO <sub>x</sub> )	§60.56c(b)(7)	§62.14452(h)	Method 7 or 7E, Appendix A-4
Lead (Pb) Cadmium (Cd) Mercury (Hg)	§60.56c(b)(13)	§62.14452(m)	Method 29, Appendix A-8

(3) The following requirements apply to all performance tests used to determine compliance with emission limits:

(a) Prior to conducting any compliance stack test, the Permittee shall

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	<p>submit a test protocol to the Department for approval at least 30 days prior to the scheduled test date. The Permittee shall submit a copy of the results of compliance stack tests to the Department within 45 days after the date the test was completed. <b>[Authority: condition E(4), Permit to Construct 021-0131-2-0066 &amp; 0067 M issued on May 1, 2014]</b></p> <p>(b) All performance tests shall consist of a minimum of three test runs conducted under representative operating conditions. <b>[Authority: §62.14452(a) §60.56c(b)(1)]</b></p> <p>(c) The minimum sample time must be one hour per test run unless otherwise indicated in the applicable test method. <b>[Authority: §62.14452(b); §60.56c(b)(2)]</b></p> <p>(d) EPA Reference Method 1 of 40 CFR Part 60, Appendix A-1 shall be used to select the sampling location and number of traverse points. <b>[Authority: §62.14452(c); §60.56c(b)(3)]</b></p> <p>(e) EPA Reference Method 3 or 3A, or 3B of 40 CFR Part 60, Appendix A-2 shall be used for gas composition analysis, including measurement of oxygen concentration. EPA Reference Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A-2 shall be used simultaneously with each reference method. The Permittee may use ASME PTC-19-10-1981-Part 10 (incorporated by reference in 40 CFR 60.17) as an alternative to EPA Reference Method 3B. <b>[Authority: §62.14452(d); §60.56c(b)(4)]</b></p> <p>(f) The pollutant concentrations shall be adjusted to 7 percent oxygen using the following equation. <b>[Authority: §62.14452(e); §60.56c(b)(5)]</b></p> $C_{adj} = C_{meas} (20.9 - 7.0)/(20.9 - \%O_2)$ <p>where:  <math>C_{adj}</math> = pollutant concentration adjusted to 7 percent oxygen;  <math>C_{meas}</math> = pollutant concentration measured on a dry basis</p> <p>(20.9 - 7.0) = 20.9 percent Oxygen - 7 percent oxygen (defined oxygen correction basis);  20.9 = Oxygen concentration in air, percent; and  <math>\%O_2</math> = Oxygen concentration measured on a dry basis, percent.</p> <p>(4) The Permittee shall determine compliance with the emission limits for PM, CO, and HCl by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in §60.56c(b)(1) –(14) above.</p> <p>(a) If all three performance tests over a 3-year period indicate compliance</p>
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with the emission limit for a pollutant (PM, CO, or HCl), the Permittee may forego a performance test for the next 2 years.

- (b) At a minimum the Permittee must conduct a performance test for PM, CO, and HCl every third year.
- (c) If a performance test every third year indicates compliance with the emission limit for a pollutant (PM, CO or HCl), the Permittee may forego a performance test for that pollutant for an additional 2 years.
- (d) If any performance test indicates noncompliance with the respective emission limit, the Permittee must conduct a performance test for that pollutant annually until all performance tests over a 3-year period indicate compliance with the emission limit.
- (e) The use of the bypass stack during a performance test shall invalidate the performance test.

**[Authority: 40 CFR 62, Subpart HHH, §62.14451(a), (b), and §62.14452; COMAR 26.11.08.08-2B(4), which references 40 CFR §60.56c; §60.56c(c)(2)]**

- (5) Additionally, the Permittee shall perform annual performance stack tests for dioxins/furans and mercury in accordance with the following timing requirements: **[Authority: Permit to Construct 021-0131-2-0066 and -0067 M issued on May 1, 2014]**
  - (a) The annual performance test shall be performed no later than 12 months after the previous stack test;
  - (b) The annual performance test shall be performed prior to the replacement of the activated carbon in the adsorption system;
  - (c) Condition (5)(a) above may be waived by the Department if the replacement of activated carbon is deferred beyond the 13 month period in accordance with condition D(5), Permit to Construct 021-0131-2-0066 and -0067 issued on May 1, 2014;
  - (d) Within 48 hours before each dioxins/furans and mercury performance test, verify the amount [volume or weight (cubic feet, pounds)] of activated carbon.
- (6) The Permittee shall establish during the initial and any subsequent performance tests the following set of alternative site-specific operating parameters approved by the Department and EPA. **[Authority: 40 CFR 62, Subpart HHH, §62.14453(b)(2); 40 CFR §60.56c(j); letter from Diana Esher, Director, Air Protection Division, USEPA Region III, dated April 22, 2014; Permit to Construct 021-0131-2-0066 and -0067 M issued on May 1, 2014]:**

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- (a) Maximum charge rate - in accordance with 40 CFR §60.51c by the following: For continuous and intermittent HMIWI, 110 percent of the lowest 3-hour average charge rate measured during the most recent performance test demonstrating compliance with all applicable emission limits.
- (b) Minimum secondary chamber temperature - means 90 percent of the highest 3-hour average secondary chamber temperature (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the PM, CO, dioxin/furan, and NO<sub>x</sub> emissions limits.
- (c) Minimum rotary atomizing scrubber amperage - 90 percent the highest 3-hour average rotary atomizing scrubber amperage taken, at a minimum, once every minute, measured during the most recent performance test demonstrating compliance with all applicable emission limits.
- (d) Minimum rotary atomizing scrubber pH - 90 percent of the highest 3-hour average scrubber liquor pH (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the HCl emission limit.
- (e) Maximum rotary atomizing scrubber temperature - for the purposes of this permit, means 17 °C (30.6 °F) more than the lowest 3-hour average flue gas temperature at the outlet from the rotary atomizing scrubber prior to entering the steam coil re-heating unit (taken, at a minimum, once every minute) measured during the most recent performance tests demonstrating compliance with the dioxin/furans (D/F) and mercury (Hg) emission limits.
- (f) Maximum carbon adsorption system inlet temperature - means 17 °C (30.6 °F) more than the lowest 3-hour average flue gas temperature (taken, at a minimum, once every minute), at the inlet to the carbon adsorption system at a position after the steam coil re-heating unit but before the particulate pre-filter (T2), measured during the most recent performance test demonstrating compliance with the dioxin/furan (D/F) and mercury (Hg) emissions limit., whichever is lower.
- (g) Maximum post-filter differential pressure - The greater differential pressure across the MERV-12 or better second section of the post-filter determined during the most recent performance tests demonstrating compliance with the emission limitations for dioxins/furans, particulate matter, lead, cadmium, and mercury as determined by consideration of the following: (a) 0.5 inch of water column (WC) more than the highest 3-hour average differential pressure (inches WC) measured during the performance tests or (b) 110 percent of the highest 3-hour average differential pressure

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	<p align="center">(inches WC) determined during the performance tests.</p> <p align="center"><i>Post-filter means</i> - a filter utilizing fiber particulate filters similar in design and function to a HVAC grade filter located after the activated carbon adsorption system and consists of two sections. The first section is a MERV-8 filter or better, or tested filters used during the most recent performance tests for PM, dioxins/furans, Pb, Cd, or Hg, for intercepting large diameter particles followed by a filter of MERV-12, or equivalent or better as determined during the most recent performance tests for PM, dioxins/furans, Pb, Cd, or Hg, for intercepting small diameter particles down to 1.0 micron in size or smaller.</p> <p>(7) The Permittee may conduct a repeat performance test within 30 days of violation of applicable operating parameter(s) to demonstrate that the HMIWI is not in violation of the applicable emissions limit(s). The Permittee must conduct repeat performance tests pursuant to this paragraph using the identical operating parameters that indicated a violation under or paragraphs (b), (c), (d), (e), or (f) of section §62.14455 (or paragraphs (e), (f), (g), or (h) of section §60.56c(i). <b>[Authority: 40 CFR part 62, subpart HHH, §62.14452(g); COMAR 26.11.08.08-2B(4), §60.56c(i)]</b></p> <p>(8) The Permittee may conduct a repeat performance test in accordance with §62.14452 [or §60.56c(k)] at any time to establish new values for the operating parameters. <b>[Authority: 40 CFR 62, Subpart HHH, §62.14455(i); COMAR 26.11.08.08-2B(4), §60.56c(k)]</b></p> <p>(9) The EPA Administrator may request the Permittee to perform a repeat performance test at any time. <b>[Authority: 40 CFR 62, Subpart HHH, §62.14451(d); COMAR 26.11.08.08-2B(4), §60.56c(k)]</b></p> <p><b>B. <u>Waste Management Plan</u></b></p> <p>See Monitoring and Record keeping Requirements.</p> <p><b>C. <u>Initial and Annual Equipment and Control Device Inspection Requirements</u></b></p> <p>See Monitoring and Record keeping Requirements.</p> <p><b>D. <u>Operator Training Requirements</u></b></p> <p>See Monitoring and Record keeping Requirements.</p>
4.3.4	<p><b><u>Monitoring Requirements:</u></b></p> <p><b>A. <u>Emission Standards and Requirements for HMIWIs Under 40 CFR 60 Subpart Ce as Revised October 6, 2009</u></b></p>

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The Permittee shall comply with the monitoring requirements under 40 CFR §60.57c, Subpart Ec, subject to A(1) and A(2) below: **[Authority: §62.14453 and §62.14454; COMAR 26.11.08.08-2B(5)]**

(1) Exemptions. "A person may elect to use the exemptions listed under 40 CFR §§ 60.56c(c)(5)(ii) through (v), (c)(6), (c)(7), (e)(6) through (10), (f)(7) through (10), (g)(6) through (10) and (h) for HMIWI units subject to .08-2B(1)." **[Authority: COMAR 26.11.08.08-2B(5)(a)]**

(2) Alternative Compliance Option for CO. "A person may elect to use CO CEMS as specified under 40 CFR §60.56c(c)(4) or bag leak detection systems as specified under 40 CFR §60.57c(h)."

Subpart HHH §62.14452(o) also provides that, if the Permittee is using a CEMS to demonstrate compliance with any of the emissions limits under §§62.14411 or 62.14412, the Permittee:

(a) Must determine compliance with the appropriate emissions limit(s) using a 12-hour rolling average, calculated as specified in section 12.4.1 of EPA Reference Method 19 of 40 CFR 60, Appendix A-7. Performance tests using EPA Reference Methods are not required for pollutants monitored with CEMS. **[Reference: §62.14452(o)(1)]** *Note: The more stringent averaging time from subpart HHH is being used. See fact sheet.*

(b) Must operate a CEMS to measure oxygen concentration, adjusting pollutant concentrations to 7 percent oxygen as specified in §60.56c(b)(5) or §62.14452(e). **[Reference: §62.14452(o)(2)]**

(c) Must operate all CEMS in accordance with the applicable procedures under appendices B and F of 40 CFR 60. **[Reference: §62.14452(o)(3)]**

(d) May substitute use of a CO CEMS for the CO annual performance test and minimum secondary chamber temperature to demonstrate compliance with the CO emissions limit. **[Reference: §62.14452(o)(4)]**

(3) If the Permittee elects to use a CO CEMS meeting the requirements of 40 CFR 60, appendices B and F to demonstrate compliance with the CO emissions limits and the CEMS indicates compliance with the CO emissions limit during periods when operating parameters indicate a violation of the CO emissions limit, then the Permittee is considered to be in compliance with the emissions limit and a repeat performance test is not required to demonstrate compliance. **[Authority: §62.14455(h) and §60.57c(c)]**

(4) The Permittee shall obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction,

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calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day and for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital waste and/or medical/infectious waste. **[Authority: 40 CFR §62.14454(d) and §60.57c(e)]**

- (5) The Permittee shall comply with the requirement to monitor the bypass stack by using the following alternative methodology, which the Department deems as an acceptable alternative to continuously recording the status of the bypass stack: **[Authority: 40 CFR §62.14454(b) and §60.57c(c)]**
- (a) The bypass stack shall be equipped with guillotine dampers to prevent exhaust gases from leaking out through the bypass stack. **[Authority: conditions C(6), Permits to Construct 10-2-0066 & 0067 N issued on June 6, 1995]**
  - (b) The incinerator shall be equipped with an interlock to the waste feed system to prevent the loading of additional waste to the incinerator whenever the flue gases are diverted to the bypass stack. The bypass stack guillotine dampers shall be equipped with limit switches to detect when the dampers are open. The incinerators shall be equipped with an interlock device that will halt the ram feeders if the dampers are open. **[Authority: C(7), Permits to Construct 10-2-0066 & 0067 N issued on June 6, 1995]**
  - (c) The incinerator shall be equipped with an audible alarm that sounds and a control panel indicator that displays a notification to the operator whenever the bypass stack is in use.
  - (d) The operator shall record in the daily operator log any use of the bypass stack including date, time, and duration.
- (6) The Permittee shall continuously monitor and maintain the specified averages for the following operating parameters, 1-hour average and a 3-hour moving average, computed once each hour. The limits apply at all times except as noted in condition (7) below. **[Authority: condition E(6), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**
- (a) Limit the 3-hour average HMIWI unit charge rate to no more than the maximum charge rate (110 percent of the lowest 3-hour average charge rate measured during the most recent performance tests demonstrating compliance with all applicable emission limits).
  - (b) Maintain the 3-hour average rotary atomizing (collision) scrubber flow rate (GPM) and amperage at least at 90 percent of the highest level established during the most recent performance tests for all applicable emission limits.
  - (c) Maintain the 3-hour average rotary atomizing scrubber pH at least at

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	<p>90 percent of the highest level established during the most recent performance test demonstrating compliance with the HCl emission limit.</p> <p>(d) Maintain the 3-hour average <u>secondary chamber temperature</u> at least at 90 percent of highest secondary chamber temperature established during the most recent performance test demonstrating compliance with the PM, CO, dioxin/furan, and NO<sub>x</sub> emissions limits. <b>[Reference: 40 CFR §60.51c]</b></p> <p>(e) Continuously limit the <u>carbon filter outlet temperature</u> (T3) at least 15 °F or more than the rotary atomizing scrubber outlet temperature (T1) to prevent condensation.</p> <p>(f) The carbon filter outlet temperature (T3) shall not exceed 80 °C.</p> <p>(g) Limit the 3-hour average <u>activated carbon adsorption system inlet temperature</u> (T2) to no more than 17 °C (30.6 °F) more than the lowest 3-hour average flue gas temperature (taken, at a minimum, once every minute), at the inlet to the carbon adsorption system at a position after the steam coil re-heating unit but before the particulate pre-filter, measured during the most recent performance test demonstrating compliance with the dioxin/furan (D/F) and mercury (Hg) emissions limit.</p> <p>(h) Limit the 3-hour average differential pressure across the post-filter second section, rated at MERV 12, or equivalent or better, as determined during the performance tests, to no more than 0.5 inch WC greater than the highest level established during the most recent performance tests for dioxins/furans, PM, lead, cadmium, and mercury, or if this quantity is larger, 110 percent of the highest level established during the most recent performance tests for dioxins/furans, PM, lead, cadmium, and mercury.</p> <p>(i) Record the pre-filter and post-filter specifications (Make, Model No., and MERV rating), at every replacement period to demonstrate the operational use of replacement filters consistent with, or better than, those filters used during the most recent performance tests for PM, Pb, D/F, Hg, and Cd.</p> <p>(j) Limit the 3-hour average differential pressure drop across the activated carbon adsorption unit to less than 7.2 inches WC.</p> <p>(7) The operating parameter limits stated in paragraphs (6)(a) through (d), (g), and (h) above do not apply during performance tests conducted to reestablish the operating parameter limits. <b>[Reference: 40 CFR §60.56c(d)(2)]</b> The operating parameter limits stated in paragraphs (6)(d) and (e) do not apply during startup, prior to the loading of the first charge to the HMIWI unit. <b>[Authority: condition E(7), PTC 021-0131-2-0066 and -</b></p>
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**0067 M issued on May 1, 2014]**

- (8) The Permittee shall maintain a fixed bed activated carbon adsorption system totaling at least 3,800 pounds of activated carbon in each unit, and replace the entire amount of carbon with fresh carbon at intervals not to exceed 13 months, unless the Permittee can demonstrate to the satisfaction of the Department that a lesser replacement rate or a lesser amount of activated carbon will not lead to a violation of the emission standard for either dioxins/furans or mercury. **[Authority: condition D(5), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**
  
- (9) The Permittee shall change the particulate pre-filter sections to the carbon adsorption unit each operating day, unless the pressure drop across the pre-filter section is less than 1.0 inch WC at the end of the operating day. **[Authority: condition D(6), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**
  
- (10) The Permittee shall change the, MERV-8, or equivalent or better, first section to the post-filter each operating day, unless the pressure drop across that section is less than 1.0 inch WC at the end of the operating day. **[Authority: condition D(7), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**
  
- (11) The Permittee shall change the MERV-12, or equivalent or better, second section of the post-filter when the pressure drop across that section cannot be maintained less than the following: (a) 0.5 inch WC more than the highest 3-hour average pressure differential established during the applicable performance tests, or if this quantity is larger, 110 percent of the highest 3-hour average pressure differential established during the applicable performance tests. **[Authority: condition D(8), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**
  
- (12) The following surrogate indicators of compliance with emission limitations apply to this facility: **[Authority: 40 CFR §60.56c(j); letter from Diana Esher, Director, Air Protection Division, USEPA Region III, dated April 22, 2014; page 17, PTC 021-0131-2-0066 and -2-0067 M issued on May 1, 2014]**

Operating Parameter Violation(s) on 3-hour rolling averaged values	Related Pollutant Emission Violation(s)
1. Operation above the <u>maximum charge rate</u> and simultaneously below the <u>minimum rotary atomizing scrubber amperage</u> [Ref: §60.56c(f)(1)]	PM emission limit.
2. Operation above the <u>maximum charge rate</u> and simultaneously below the <u>minimum secondary chamber temperature</u> [Ref: §60.56c(f)(2)].	CO emission limit.
3. Operation above the <u>maximum charge rate</u> , below the	Dioxin/furan emission limit.

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minimum secondary chamber temperature, and below the minimum rotary atomizing scrubber liquor flow rate simultaneously [Ref: §60.56c(f)(3)]	
4. Operation above the maximum charge rate, and below the minimum rotary atomizing scrubber liquor pH simultaneously [Ref: §60.56c(f)(4)].	HCl emission limit
5. Operation above the maximum charge rate, the maximum rotary atomizing scrubber outlet temperature, and above the maximum activated carbon adsorption system inlet temperature simultaneously [Ref: §60.56c(e)(2) and §60.56c(f)(5)]	Dioxins/furans and mercury emission limits
6. Use of the bypass stack [Ref: §60.56c(f)(6)] .	PM, dioxin/furan, HCl, Pb, Cd, and Hg emission limits
7. Minimum 30 °F flue gas temperature rise across the steam reheat coil based on a 3-hour average of inlet versus outlet temperatures [i.e., $T_2 - T_1 \geq 30$ °F]	Dioxins/furans and mercury emission limits.
8. Operation above the maximum post-filter differential pressure (DP-4) [Ref: §60.56c(j)].	PM, dioxin/furan, Pb, and Cd, emission limits

- Operational parameter requirements No. 1 through No. 4 and No. 6. Are from the existing Federal rule.
- Operational parameter requirements No. 5, No. 7, and No. 8 are new additions.
- The post-filter is comprised of a 2" thick HVAC-type pre-filter MERV-8 or better, or tested filter used during the most recent performance tests, and 12" thick HVAC cartridge type final filter MERV-12 or equivalent or better, as determined during the most recent performance tests for PM, dioxin/furans, Pb, Cd, and Hg.
- All operating parameters shall be evaluated for compliance on a 3-hour rolling average except for use of the bypass stack.

**B. Waste Management Plan**

See Record keeping Requirements

**C. Initial and Annual Equipment and Control Device Inspection Requirements**

See Record keeping Requirements

**D. Operator Training Requirements**

See Record keeping Requirements

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**4.3.5 Record Keeping Requirements:**

**A. Emission Standards and Requirements for HMIWIs Under 40 CFR 60 Subpart Ce as Revised October 6, 2009**

The Permittee shall maintain for at least five (5) years and shall make them available to the Department upon request, records of the following information, as applicable. [Authority: COMAR 26.11.08.08-2B(6), 40 CFR 60, Subpart Ec, §60.58c; and 40 CFR 62, Subpart HHH, §62.14460-62 condition F(1), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]

§60.58c(b)(1) Calendar date of each record;

§60.58c(b) (2) Records of the following data:

- (i) Concentrations of any pollutant listed in § 60.52c or measurements of opacity as determined by the continuous emission monitoring system (if applicable);
- (iii) HMIWI charge dates, times, and weights and hourly charge rates;

*Note: §60.58c(b)(2)(ii), (iv) – (viii), (x), (xii), (xviii) and (xix) and §60.58c(b)(7) do not apply to this facility.*

- (ix) Secondary chamber temperatures recorded during each minute of operation;
- (xi) Horsepower or amperage and recirculated flow rate (GPM) to the rotary atomizing (wet) scrubber during each minute of operation, as applicable;
- (xiii) Temperature at the outlet from the rotary atomizing (wet) scrubber during each minute of operation
- (xiv) pH at the inlet to the rotary atomizing (wet) scrubber during each minute of operation.
- (xv) Records indicating use of the bypass stack, including dates, times, and durations, and
- (xvi) For affected facilities complying with § 60.56c(j) and § 60.57c(d), the owner or operator shall maintain all operating parameter data collected; The following applies:
  - (xvi)-1 Temperature of the flue gas leaving the wet scrubber at a point prior to the inlet of the steam reheat coil (T1), recorded once each minute.
  - (xvi)-2 Temperature of the flue gas at a point leaving the steam re-

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	<p>heat coil and entering the activated carbon adsorption system (T2), recorded once each minute.</p> <p>(xvi)-3 Temperature of the flue gas leaving the activated carbon adsorption system at a point located after the particulate matter post-filter (T3), recorded once each minute.</p> <p>(xvi)-4 Temperature rise across the reheat coil (T2 – T1), recorded once each minute.</p> <p>(xvi)-5 Temperature rise across the add-on control system (T3 –T1), recorded once each minute.</p> <p>(xvi)-6 Pressure drop across the activated carbon adsorption unit, in inches WC (DP-2), recorded at least at 5 minute intervals.</p> <p>(xvi)-7 Pressure drop across each pre-filter section in inches WC (DP-1A and DP-1B), (if more than one section is installed) recorded at least at 5 minute intervals.</p> <p>(xvi)-8 Pressure drop across the post-filter first section in inches WC, (DP-3) recorded at least at 5 minute intervals.</p> <p>(xvi)-9 Pressure drop across the post-filter second section in inches WC, (DP-4) recorded at least at 5 minute intervals.</p> <p>(xvi)-10 The pre-filter and post-filter specifications (Make, Model No., and MERV rating), shall be recorded at every replacement period to demonstrate the operational use of replacement filters consistent with, or better than, those filters used during the most recent performance tests for PM, Pb, D/F, Hg, and Cd.</p> <p>(xvi)-11 The activated carbon performance specifications (density, particle size, specific surface area (cm<sup>2</sup>/g) from each activated carbon vendor.</p> <p>(xvi)-12 The amounts of activated carbon replaced, including the date and the hours of operation of the HMIWI unit since the previous replacement of carbon, including the vendor's performance specifications.</p> <p>§60.58c(b)(3): Identification of calendar days for which data on emission rates or operating parameters specified under paragraph (b)(2) of §60.58c, have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.</p> <p>§60.58c(b)(4): Identification of calendar days, times and duration of</p>
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malfunctions, a description of the malfunction and the corrective action taken.

§60.58c(b)(5): Identification of calendar days for which data on emission rates or operating parameters specified under paragraph (b)(2) of §60.58c exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.

§60.58c(b)(6): The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable, and a description, including sample calculations, of how the operating parameters were established or re-established, if applicable.

§60.58c(b)(7) *siting requirements documentation not required*

§60.58c(b)(11): Records of calibration of any monitoring devices as required under §60.57c (a), (b), and (c).

**B. Waste Management Plan**

The Permittee shall keep the waste management plan on-site and make it available authorized inspectors upon request. **[Authority: COMAR 26.11.03.06C(3)]**

**C. Initial and Annual Equipment and Control Device Inspection Requirements**

The Permittee shall maintain for at least five (5) years and shall make available to the Department upon request, records of the following information. **[Authority: COMAR 26.11.08.08-2B(6); 40 CFR 62, Subpart HHH, §62.14460-62; and condition F(1), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**

§60.58c(b)(1) Calendar date of each record;

§60.58c(b)(2)(xvii) Records of the annual air pollution control device inspections, any required maintenance and any repairs not completed within 10 days or the timeframe established by the EPA Administrator or the Department upon delegation of authority.

§62.14460(14) Records of the annual equipment inspections, any required maintenance and any repairs not completed within 10 days or the timeframe established by the EPA Administrator or the Department upon delegation of authority.

**D. Operator Training Requirements**

(1) The Permittee shall keep the following records onsite for at least 5 years:

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	<p>§60.58c(b)(1) Calendar date of each record;</p> <p>§60.58c(b)(8) Records showing the names of HMIWI operators who have completed review of the information in §60.53c(h) as required by §60.53c(i), including the date of the initial review and all subsequent annual reviews.</p> <p>§60.58c(b)(9) Records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of training;</p> <p>§60.58c(b)(10) Records showing the names of the HMIWI operators who have met the criteria under §60.53c and the dates of their qualification; and</p> <p>(2) The Permittee shall maintain documentation of training (operator training manual) on site and update the documentation annually at the time of the annual review course. The documentation shall be as specified in 40 CFR §60.53c(h). <b>[Authority: COMAR 26.11.08.09C(5)]</b></p>
<b>4.3.6</b>	<p><b><u>Reporting Requirements:</u></b></p> <p><b>A. <u>Emission Standards and Requirements for HMIWIs Under 40 CFR 60 Subpart Ce as Revised October 6, 2009</u></b></p> <p>The Permittee shall report to the Department and the EPA in accordance with the requirements listed in 40 CFR §60.58c(b) through (g), excluding 40 CFR §60.58c(b)(2)(viii) and 60.58c(b)(2)(xvii) and (b)(2)(xix). <b>[Authority: COMAR 26.11.08.08-2B(6); 40 CFR 62, Subpart HHH, §62.14463-65]</b></p> <p>(1) In accordance with §60.58c(c), the Permittee shall submit the information specified below no later than 60 days following the initial performance test. All reports shall be signed by the facilities manager:</p> <p>(a) The initial performance test data as recorded under § 60.56c(b)(1) through (14), as applicable;</p> <p>(b) The values of the site specific operating parameters established pursuant to §60.56c(d), (h) or (j) as applicable.</p> <p>(2) In accordance with §60.58c(d) – (e), the Permittee shall submit semiannual reports no later than 60 days following the reporting period. The first semiannual reporting period ends 6 months following the submission of information in paragraph (c) of 40 CFR 60.58c. The semiannual report shall include the information specified in paragraphs (d)(1) through (d)(9) and (d)(11) of 40 CFR 60.58c. Subsequent reports shall be submitted no later than 6 calendar months following the previous report. All reports shall be signed by the facilities manager.</p>

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- (a) The values for the site-specific operating parameters established pursuant to §60.56c(d), (h), or (j), as applicable. **[Reference: §60.58c(d)(1)]**
- (b) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded for the calendar year being reported, pursuant to § 60.56c(d), (h), or (j), as applicable. **[Reference: §60.58c(d)(2)]**
- (c) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded pursuant to § 60.56c(d), (h), or (j) for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period. **[Reference: §60.58c(d)(3)]**
- (d) Any information recorded under paragraphs (b)(3) through (b)(5) of 40 CFR 60.58c, for the calendar year being reported. **[Reference: §60.58c(d)(4)]**
- (e) Any information recorded under paragraphs (b)(3) through (b)(5) of 40 CFR 60.58c, for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period. **[Reference: §60.58c(d)(5)]**
- (f) If a performance test was conducted during the reporting period, the results of that test. **[Reference: §60.58c(d)(6)]**
- (g) If no exceedances or malfunctions were reported under paragraphs (b)(3) through (b)(5) of 40 CFR §60.58c, for the calendar year being reported, a statement that no exceedances occurred during the reporting period. **[Reference: §60.58c(d)(7)]**
- (h) Any use of the bypass stack, the duration, reason for malfunction, and corrective action taken. **[Reference: §60.58c(d)(8)]**
- (i) Concentrations of CO determined by a CO CEMS, if the Permittee elects to determine compliance with the CO emission limit using a CEMS. **[Reference: §60.58c(d)(11)]**

**B. Waste Management Plan**

The Permittee shall submit a revised waste management plan as specified in §60.55c, signed by the facilities manager, no later than 60 days following the

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	<p>initial performance tests required under regulation COMAR 26.11.08.08-2. [Authority: COMAR 26.11.08.08-2B(3) and 40 CFR §60.58c(c)(3)]</p> <p><b>C. <u>Initial and Annual Equipment and Control Device Inspection Requirements</u></b></p> <p>The Permittee shall include in the semiannual reports referenced in A(2) above records of the annual equipment and air pollution control device inspection, any required maintenance, and any repairs not completed within 10 days of an inspection or the timeframe established by the EPA Administrator or the Department. [Authority: §60.58c(d)(9) and §62.14463(12) –(13)]</p> <p><b>D. <u>Operator Training Requirements</u></b></p> <p>See Record keeping Requirements.</p>
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<b>4.4.1</b>	<p><b><u>Emissions Unit Number(s)</u></b></p> <p>The following emergency diesel generators</p> <p><b>EU: C1 and C2 [MDE Reg. No. 021-0131-9-0101 and 9-0102]</b> Two (2) 993 kW diesel fuel oil-fired generators, located in Bldg 1425. Installed January 1985</p> <p><b>EU: C3 thru EU C6 [MDE Reg. No. 021-0131- 9-0148]</b> Four (4) 2,000 kW diesel fuel oil-fired generators, located in Bldg 1673. Installed 1985</p> <p><b>EU: C7 [MDE Reg. No. 021-0131-9-0153]</b> One (1) 900 kW diesel fuel oil-fired generator, located in Bldg 1420. Installed May 1996</p> <p><b>EU: C8 [MDE Reg. No. 021-0131-9-0155]</b> One (1) 880 kW diesel fuel oil fired generator, located in Bldg 1414. Installed September 2000</p> <p><b>EU: C9 [MDE Reg. No. 021-0131-9-0202]</b> One (1) 1,502 BHP (1000 kW) diesel fuel-fired generator, located in Bldg 1414. Installed September 2004</p> <p><b>EU: C10 [MDE Reg. No. 021-0131-9-0205]</b> One (1) 2,876 BHP (2000 kW) diesel fuel oil fired generator, located in Bldg 1425. Installed September 2004</p> <p><b>EU: C13 [MDE Reg. No. 021-0131-9-0209]</b> One (1) 685 BHP (511 kW) diesel fuel oil fired generator, located in Bldg 810. Installed September 1988</p>
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<b>4.4.2</b>	<p><b><u>Applicable Standards/Limits:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b> <b>Visible Emission during Idle Mode. – [COMAR 26.11.09.05E(2)]</b> “A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.”</p> <p><b>Visible Emission during Operating Mode. – [COMAR 26.11.09.05E(3)]</b> “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.”</p> <p><b><u>Exceptions:</u></b> COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system. 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. COMAR 26.11.09.05E(2) and E(3) do not apply while maintenance, repair, or testing is being performed by qualified mechanics. <b>[Authority: COMAR 26.11.09.05E(4)]</b></p> <p><b><u>B. Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p> <p><b>[COMAR 26.11.09.07A(1)(c)]</b> – “A person may not burn, sell, or make available for sale any distillate fuel with a sulfur content by weight in excess of 0.3 percent.”</p> <p>40 CFR 63, Subpart ZZZZ, §63.6604(b), beginning January 1, 2015 limits the diesel fuel sulfur content to 15 ppm maximum if an engine 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)</p> <p><b>§63.6640(f)(2)(ii):</b> Emergency stationary RICE may be operated for <u>emergency demand response</u> for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.</p> <p><b>§63.6640(f)(2)(iii):</b> Emergency stationary RICE may be operated for periods where there is a <u>deviation of voltage or frequency of 5 percent</u> or greater below standard voltage or frequency.</p> <p><b><u>C. Control of Nitrogen Oxides</u></b> <b>Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less. – [COMAR 26.11.09.08G(1)]</b> “A person who owns or operates fuel-burning equipment with a capacity factor</p>
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(as defined in 40 CFR Part 72.2) of 15 percent or less shall:

- (1) Provide certification of the capacity factor of the equipment to the Department in writing;
- (2) 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;
- (3) 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;
- (4) 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
- (5) Maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request.

**NOTE:** COMAR 26.11.09.08B(5) states that; (a) for the purpose of COMAR 26.11.09.08, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation; and (b) that the operator training course sponsored by the Department shall include an in-house training course that is approved by the Department.

**D. Operational Limitations**

The following apply:

- (1) The Permittee shall combust only No. 2 diesel fuel oil unless the Permittee applies for and receives an approval or permit from the Department to burn alternative fuels. **[Authority: COMAR 26.11.02.09A]**
- (2) 40 CFR 63, Subpart ZZZZ, §63.6603, Table 2d; §63.6604(b); §63.6605; §63.6625(e), (f), and (h); and §63.6640(f) :

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

**§63.6603(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 2b to this subpart that apply to you.

**§63.6603(b) through (f) - apply only to non-emergency engines.**

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Table 2b to Subpart ZZZZ of Part 63—Operating Limitations for ... Existing CI Stationary RICE >500 HP

Table 2b requirements: (No applicable Table 2b requirements for existing CI emergency engines at area sources).

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:

Table 2d requirements, item 4 - Emergency stationary CI RICE and black start stationary CI RICE.:

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

**§63.6625(i)** ... you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table ... 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table ... 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 business 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 business 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.

**§63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?**

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**§63.6604(b)** Beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and 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 use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

**§80.510(b)** .... Except as otherwise specifically provided in this subpart, all NR [*non-road*] ...diesel fuel is subject to the following per-gallon standards:

(1) Sulfur content.

- (i) 15 ppm maximum for NR diesel fuel.
- (ii) (*omitted*).

(2) Cetane index or aromatic content, as follows:

- (i) A minimum cetane index of 40; or
- (ii) A maximum aromatic content of 35 volume percent.

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

**§63.6605(a)** You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

**§63.6605(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.

**§63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?**

**§63.6625(e)(3)** If you own or operate [an existing emergency ... stationary RICE located at an area source of HAP emissions], 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

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pollution control practice for minimizing emissions:

**§63.6625(f)** If you own or operate ... 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.

**§63.6640 How do I demonstrate continuous compliance with the ... operating limitations, and other requirements?**

**§63.6640(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.

**§63.6640(f)(1)** There is no time limit on the use of emergency stationary RICE in emergency situations.

**§63.6640(f)(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.

(ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

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	<p>(iii) Emergency stationary RICE may be operated for periods where there is a <u>deviation of voltage or frequency of 5 percent</u> or greater below standard voltage or frequency.</p> <p><i>Note: The Permittee currently does not have a permit from the Department to operate the emergency diesel generators in the non-emergency situations described in paragraphs §63.6640(f)(3) and (f)(4), which are subject to emission limitations under regulation COMAR 26.11.36.</i></p>
<p><b>4.4.3</b></p>	<p><b><u>Testing Requirements:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b></p> <p>See Monitoring Requirements.</p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p> <p>See Monitoring Requirements.</p> <p><b>C. <u>Control of Nitrogen Oxides</u></b></p> <p>The Permittee shall perform a combustion analysis and optimize combustion at least annually for any engine that operates more than 500 hours during a calendar year. <b>[Authority: COMAR 26.11.09.08G(1)(b)]</b></p> <p><b>D. <u>Operational Limitations</u></b></p> <p>There are no testing requirements under 40 CFR 63, Subpart ZZZZ for existing emergency CE IC engines at area sources of HAPs.</p>
<p><b>4.4.4</b></p>	<p><b><u>Monitoring Requirements:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b></p> <p>The Permittee shall properly operate and maintain the engines in a manner to minimize visible emissions. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p> <p>The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of fuel oil. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b>C. <u>Control of Nitrogen Oxides</u></b></p> <p>The Permittee shall:</p> <p>(1) Monitor the hours of operation of each installation and perform a</p>

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combustion analysis at least once each year for any installation that exceeds 500 hours per year of operation and optimize combustion based on the analysis. **[Authority: COMAR 26.11.09.08J]**

- (2) Calculate the capacity factor of the engine at the end of each month and determine whether an engine's operations exceeded the 15 percent capacity factor on a rolling 12 month basis. **[Authority: COMAR 26.11.03.06C(3)]**
- (3) The Permittee shall notify the Department not later than 60 days after the date when the fuel burning equipment no longer meets the 15 percent capacity limitation on a rolling 12 month basis and shall meet the applicable fuel-burning RACT requirement of COMAR 26.11.09.08. **[Authority: COMAR 26.11.03.06C(3)]**

**D. Operational Limitations**

The following apply:

- (1) See Section 4.4.5 D(1) Recordkeeping requirements.
- (2) 40 CFR 63, Subpart ZZZZ, §63.6640, Table 6

**§ 63.6640 How do I demonstrate continuous compliance with the ... operating limitations, and other requirements?**

**§63.6640(a)** You must demonstrate continuous compliance with each ... operating limitation, and other requirements in ... **Table 2d** to this subpart that apply to you according to methods specified in **Table 6** to this subpart.

Item 9 of Table 6 requires existing emergency stationary RICE located at an area source of HAP, to demonstrate continuous compliance by either: (1) operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or (2) developing and following the Permittee's 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.

**4.4.5 Record Keeping Requirements:** NOTE: All records shall be maintained for a period of 5 years. **[Authority: COMAR 26.11.03.06.C(5)(g)]**

**A. Visible Emissions Limitations**

The Permittee shall maintain on site an operations manual and preventive maintenance plan that relates to combustion performance, and maintain records of preventive maintenance that relates to combustion performance. **[Authority: COMAR 26.11.03.06C(3)]**

**B. Control of Sulfur Oxides from Fuel Burning Equipment**

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The Permittee shall maintain records of fuel supplier's certification and shall make records available to the Department upon request. **[Authority: COMAR 26.11.03.06C(3)]**

**C. Control of Nitrogen Oxides**

The Permittee shall:

- (1) Retain records of hours of operation on a monthly basis for all engines. At the end of each month, the Permittee shall calculate the total hours for the calendar year. **[Authority: COMAR 26.11.03.06C(3)]**
- (2) Maintain the results of any combustion analysis (if required) at the site and make these results available to the Department and the EPA upon request. **[Authority: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C(3)]**
- (3) Retain records of training program attendance for each operator at the site and make these records available to the Department upon request. **[Authority: COMAR 26.11.09.08G(1)(e) and COMAR 26.11.03.06C(3)]**
- (4) Records of the calculated monthly capacity factors. **[Authority: COMAR 26.11.03.06C]**

**D. Operating Limitations**

The following apply:

- (1) The Permittee shall maintain records of the type and quantity of fuel burned in each engine;
- (2) The Permittee shall comply with the applicable recordkeeping requirements of 40 CFR 63, Subpart ZZZZ.

**§63.6625(i)** you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table ... 2d to this subpart.... 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.

**§63.6655(a)** If you must comply with the ... 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

**§63.6655(a)(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).

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	<p><b>§63.6655(a)(2) – (5) and §63.6655(b) and (c) – not applicable. See fact sheet.</b></p> <p><b>§63.6655(d)</b> You must keep the records required in Table 6 to this subpart to show continuous compliance with each ... operating limitation that applies to you..</p> <p>Item 9 of Table 6 applies to "... existing emergency and black start stationary RICE located at an area source of HAP,..." "Accordingly, the Permittee must keep the records necessary to demonstrate that the Permittee is operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or the Permittee has developed and is following their 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.</p> <p><b>§63.6655(e)(2)</b> 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.</p> <p><b>§63.6655(f)(2)</b> If you own or operate ... [<i>an existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines</i>] 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 engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) ..., the owner or operator must keep records of the notification of the emergency situation, and the date, start time, and end time of engine operation for these purposes.....</p>
<p><b>4.4.6</b></p>	<p><b><u>Reporting Requirements:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b></p> <p>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."</p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p> <p>The Permittee shall report fuel supplier certification to the Department upon request. [<b>Authority: COMAR 26.11.09.07C</b>]</p> <p><b>C. <u>Control of Nitrogen Oxides</u></b></p> <p>The Permittee shall:</p>

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- (1) Submit a list of operator training attendance to the Department upon request. **[Authority: COMAR 26.11.09.08E(5)]**
- (2) Submit the results of combustion analysis to the Department upon request whenever the engine operates more than 500 hours in a calendar year. **[Authority: COMAR 26.11.09.08G(1)(c)]**
- (3) Submit a certification of the annual capacity factor for the engine with the annual emissions certification report. **[Authority: COMAR 26.11.09.08G(1)(a) and COMAR 26.11.03.06C(3)]**

**D. Operating Limitation**

The following apply:

- (1) Permittee shall submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. **[Authority: COMAR 26.11.02.19C(2)]**
- (2) 40 CFR 63, Subpart ZZZZ.

**§63.6640(a)** referencing Table 2d, the following reporting requirement in footnote 2 to Table 2d:

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.

**§63.6640(e)** You must report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you, with the exception of the following items: §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) **[Reference: §63.6645(a)(5)]**

**§63.6645(a)** *not applicable to an existing stationary emergency RICE.*  
**[Reference: §63.6645(a)(5)]**

**§63.6650(a)** You must submit each report in Table 7 of this subpart that applies to you.

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Table 7 to Subpart ZZZZ of Part 63—Requirements for Reports  
As stated in §63.6650, you must comply with the following requirements for reports:

Table 7, Item 4 requirements.

For each emergency stationary RICE that operate or are contractually obligated to be available for more than 15 hours per year for the purposes specified in §63.6640(f)(2)(ii) and (iii) .... You must submit a report, which must contain the information in 63.6650(h)(1). The report must be submitted annually according to the requirements in 63.6650(h)(2) – (3).

**§63.6650(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.

**§63.6650(b)(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.

**§63.6650(b)(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.

**§63.6650(b)(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.

**§63.6650(b)(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.

**§63.6650(b)(5)** For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR 70 ..., and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) [*State Title V program*]... 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. *Note: Section III, part 4d. of this permit requires that semiannual monitoring reports be submitted within 30 days of the end of the reporting period specified in §63.6650(b)(1) and (b)(3) above.*

**§63.6650(b)(6)** For annual Compliance reports, the first Compliance report must

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cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.

**§63.6650(b)(7) and (b)(9):** *The reporting dates specified in paragraphs (b)(7) and (b)(9) are not applicable to facilities with a Title V permit. Section III, part 9. of this permit requires that annual Compliance Certification reports covering the previous calendar year be submitted by April 1 of each year. See §63.6650(f) below.*

**§63.6650(b)(8)** For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.

**§63.6650(c)** The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

**§63.6650(c)(1)** Company name and address.

**§63.6650(c)(2)** Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report.

**§63.6650(c)(3)** Date of report and beginning and ending dates of the reporting period.

**§63.6650(c)(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.

**§63.6650(c)(5)** If there are no deviations from ... operating limitations that apply to you, a statement that there were no deviations from the ... operating limitations during the reporting period.

**§63.6650(c)(6)** *not applicable. No CEMS or CPMS not required.*

**§63.6650(d)** For each deviation from an... operating limitation that occurs for a stationary RICE ..., 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.

**§63.6650(d)(1)** The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

**§63.6650(d)(2)** Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

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**§63.6650(e)** – *not applicable. Not required to have a CMS*

**§63.6650(f)** Each affected source that has obtained a title V operating permit pursuant to 40 CFR 70 ... must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (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) ..., 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.

**§63.6650(g)** - not applicable. Not new or reconstructed RICE

**§63.6650(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.

**§63.6650(h)(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.

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	<p>(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.</p> <p>(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.</p> <p><b>§63.6650(h)(2)</b> 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.</p> <p><b>§63.6650(h)(3)</b> 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) (<a href="http://www.epa.gov/cdx">www.epa.gov/cdx</a>). 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.</p>
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<b>4.5.1</b>	<p><b><u>Emissions Unit Number(s)</u></b></p> <p>The following emergency diesel generators firing diesel fuel oil, subject to New Source Performance Standard 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, as new or reconstructed sources.</p> <p><b>EU C11: [MDE Reg. No. 021-0131-9-0312]</b> One 600 kW Kohler Model 600REOZv located in Building 693. Installed May 2011.</p> <p><b>EU C14: [MDE Reg. No. 021-0131-9-0317]</b> One 1000 kW Kohler Model 1000REOZMB located in Building 568. Installed September 2011.</p> <p><b>EU C15: [MDE Reg. No. 021-0131-9-0353]</b> One 2000 kW Caterpillar Model SR45/3516C located in Building 8100. Installed December 2012.</p> <p><b>EU C16: [MDE Reg. No. 021-0131-9-0354]</b> One 500 kW Kohler Model 500REOZJ located in Building 1419. Installed December 2012.</p>
<b>4.5.2</b>	<p><b><u>Applicable Standards/Limits:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b> <b>Visible Emission during Idle Mode. – [COMAR 26.11.09.05E(2)]</b></p>

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“A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.”

**Visible Emission during Operating Mode. – [COMAR 26.11.09.05E(3)]**

“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.”

**Exceptions:**

COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system. 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. COMAR 26.11.09.05E(2) and E(3) do not apply while maintenance, repair, or testing is being performed by qualified mechanics.

**[Authority: COMAR 26.11.09.05E(4)]**

**B. Control of Sulfur Oxides from Fuel Burning Equipment**

The Permittee shall not combust fuel oil in the engines with a sulfur content in excess of 15 parts per million by weight. **[Authority: §60.4207, 40 CFR 60, Subpart IIII]**

**C. Control of Control of Nitrogen Oxides**

**Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less. – [COMAR 26.11.09.08G(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:

- (1) Provide certification of the capacity factor of the equipment to the Department in writing;
- (2) 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;
- (3) 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;
- (4) 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
- (5) Maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request.

**NOTE:** COMAR 26.11.09.08B(5) states that; (a) for the purpose of COMAR

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26.11.09.08, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation; and (b) that the operator training course sponsored by the Department shall include an in-house training course that is approved by the Department.

**D. Operating Limitation**

The Permittee shall:

- (1) Combust only No. 2 diesel fuel oil unless the Permittee applies for and receives an approval or permit from the Department to burn alternative fuels. **[Authority: COMAR 26.11.02.09A]**

*Note: The engines are also nominally subject to 40 CFR 63, Subpart ZZZZ, but meet all of the requirements by being subject to the requirements in 40 CFR 60, Subpart IIII. [Reference: 40 CFR 63.6590(c)(1)]*

- (2) For any diesel generator whose engine was manufactured after April 1, 2006 and was ordered by the Permittee on or after July 11, 2005, and therefore subject to 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines:

- (a) Pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in Table 1 to Subpart IIII of Part 60. **[Authority: §60.4205(a), 40 CFR 60, Subpart IIII]**

- (b) 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. **[Authority: §60.4205(b), 40 CFR 60, Subpart IIII]**

**§60.4202(a)** Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the emission standards specified in §60.4202(a)(2).

**§60.4202(a)(2)** For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007.

- (c) The Permittee shall combust only diesel fuel meeting the requirements of 40 CFR §80.510(b): **[Authority: §60.4207, 40 CFR 60, Subpart**

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- (i) The maximum sulfur content shall not exceed 15 ppm by weight;
- (ii) Either the minimum cetane index shall be at least 40 or the maximum aromatic content shall not exceed 40 percent by volume.
- (d) In keeping with §60.4211(f)(2) through (f)(2)(iii), the Permittee shall limit the hours of operation for nonemergency use to 100 hours per year or less unless prior approval is obtained from the Department.

**[Authority: §60.4211(f), 40 CFR 60, Subpart IIII]**

**§60.4211(f)** If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE 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 (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

**§60.4211(f)(1)** There is no time limit on the use of emergency stationary ICE in emergency situations.

**§60.4211(f)(2)** You may operate your emergency stationary ICE 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 paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

**§60.4211(f)(2)(i)** Emergency stationary ICE 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 ICE beyond 100 hours per calendar year.

**§60.4211(f)(2)(ii)** Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability

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	<p>Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.</p> <p><b>§60.4211(f)(2)(iii)</b> Emergency stationary ICE may be operated for periods where there is a <u>deviation of voltage or frequency of 5 percent or greater</u> below standard voltage or frequency.</p>
<p><b>4.5.3</b></p>	<p><b><u>Testing Requirements:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b></p> <p>See Monitoring and Record Keeping Requirements.</p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p> <p>See Monitoring and Record Keeping Requirements.</p> <p><b>C. <u>Control of Nitrogen Oxides</u></b></p> <p>The Permittee shall perform a combustion analysis and optimize combustion at least annually for any engine that operates more than 500 hours during a calendar year. <b>[Authority: COMAR 26.11.09.08G(1)(b)]</b></p> <p><b>D. <u>Operational Limitations</u></b></p> <p>See Monitoring and Record Keeping Requirements.</p>
<p><b>4.5.4</b></p>	<p><b><u>Monitoring Requirements:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b></p> <p>The Permittee shall properly operate and maintain the engines in a manner to minimize visible emissions. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p> <p>The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of fuel oil. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b>C. <u>Control of Nitrogen Oxides</u></b></p> <p>The Permittee shall:</p> <p>(1) Monitor the hours of operation of each installation and perform a</p>

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	<p>combustion analysis at least once each year for any installation that exceeds 500 hours per year of operation and optimize combustion based on the analysis. <b>[Authority: COMAR 26.11.09.08J]</b></p> <p>(2) Calculate the capacity factor of the engine at the end of each month and determine whether an engine's operations exceeded the 15 percent capacity factor on a rolling 12 month basis. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p>(3) The Permittee shall notify the Department not later than 60 days after the date when the fuel burning equipment no longer meets the 15 percent capacity limitation on a rolling 12 month basis and shall meet the applicable fuel-burning RACT requirement of COMAR 26.11.09.08. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b>D. <u>Operational Limitations</u></b></p> <p>The following apply:</p> <p>(1) The Permittee must operate and maintain, over the entire life of the source, each emergency diesel generator and control devices according to the manufacturer's written instructions or according to procedures developed by the Permittee 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 89, 94 and/or 1068 as they may apply to an owner or operator. <b>[Authority: 40 CFR 60, Subpart III, §60.4211(a)]</b></p> <p>(2) The Permittee must install non-resettable hour meter on each engine prior to the startup of engine. <b>[Authority: 40 CFR 60, Subpart III, §60.4209(a)]</b></p> <p>(3) The Permittee shall record the operation of each emergency diesel generator in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee must record the time of operation of each emergency diesel generator and the reason the emergency diesel generator was in operation during that time. <b>[Authority: 40 CFR 60, Subpart III, §60.4214(b)]</b></p>
<b>4.5.5</b>	<p><b><u>Record Keeping Requirements:</u></b> NOTE: All records shall be maintained for a period of 5 years. <b>[Authority: COMAR 26.11.03.06.C(5)(g)]</b></p> <p><b>A. <u>Visible Emissions Limitations</u></b></p> <p>The Permittee shall maintain on site an operations manual and preventive maintenance plan that relates to combustion performance, and maintain records of preventive maintenance that relates to combustion performance. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p>

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The Permittee shall maintain records of fuel supplier's certification and shall make records available to the Department upon request. **[Authority: COMAR 26.11.03.06C(3)]**

**C. Control of Nitrogen Oxides**

The Permittee shall:

- (1) Retain records of hours of operation on a monthly basis for all engines. At the end of each month, the Permittee shall calculate the total hours for the calendar year. **[Authority: COMAR 26.11.03.06C(3)]**
- (2) Maintain the results of any combustion analysis (if required) at the site and make these results available to the Department and the EPA upon request. **[Authority: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C(3)]**
- (3) Retain records of training program attendance for each operator at the site and make these records available to the Department upon request. **[Authority: COMAR 26.11.09.08G(1)(e) and COMAR 26.11.03.06C(3)]**
- (4) Records of the calculated monthly capacity factors. **[Authority: COMAR 26.11.03.06C]**

**D. Operational Limitations**

The following apply:

- (1) The Permittee shall maintain on site for the life of the source the following records for the emergency diesel generators: **[Authority: condition E(2), Permit to Construct 021-0131-9-0353 issued by the Department on November 13, 2012, COMAR 26.11.03.06C(3)]**
  - (a) The installation date of each emergency generator; and
  - (b) The certifications of compliance or manufacturer engine test data required by 40 CFR §60.4211 and §60.4214(b).
- (2) The Permittee shall keep records of the operation of each emergency diesel generator in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee must keep records of the time of operation of each emergency diesel generator and the reason the emergency diesel generator was in operation during that time. **[Authority: 40 CFR 60, Subpart III, §60.4214(b)]**
- (3) The Permittee shall, for each delivery of fuel to be used in the emergency diesel generators, 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

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	oil complies with the specifications of 40 CFR §80.510(b). <b>[Authority: condition E(3), Permit to Construct 021-0131-9-0353 issued by the Department on November 13, 2012, COMAR 26.11.03.06C(3)]</b>
<b>4.5.6</b>	<p><b><u>Reporting Requirements:</u></b></p> <p><b>A. <u>Visible Emissions Limitations</u></b></p> <p>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."</p> <p><b>B. <u>Control of Sulfur Oxides from Fuel Burning Equipment</u></b></p> <p>The Permittee shall report fuel supplier certification to the Department upon request. <b>[Authority: COMAR 26.11.09.07C]</b></p> <p><b>C. <u>Control of Nitrogen Oxides</u></b></p> <p>The Permittee shall:</p> <ol style="list-style-type: none"><li>(1) Submit a list of operator training attendance to the Department upon request. <b>[Authority: COMAR 26.11.09.08E(5)]</b></li><li>(2) Submit the results of combustion analysis to the Department upon request whenever the engine operates more than 500 hours in a calendar year. <b>[Authority: COMAR 26.11.09.08G(1)(c)]</b></li><li>(3) Submit a certification of the annual capacity factor for the engine with the annual emissions certification report. <b>[Authority: COMAR 26.11.09.08G(1)(a) and COMAR 26.11.03.06C(3)]</b></li></ol> <p><b>D. <u>Operating Limitation</u></b></p> <p>The Permittee shall:</p> <ol style="list-style-type: none"><li>(1) Submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. <b>[Authority: COMAR 26.11.02.19C(2)]</b></li><li>(2) Follow 40 CFR 60, Subpart IIII reporting requirements:  <b>§60.4214(d)</b> If you own or operate an emergency stationary CI ICE with a maximum engine power more than 100 HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §60.4211(f)(2)(ii) and (iii) or that operates for the purposes specified in §60.4211(f)(3)(i), you must submit an annual report according to the requirements in paragraphs (d)(1) through (3) of this section.</li></ol>

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	<p><b>§60.4214(d)(1)</b> The report must contain the following information:</p> <ul style="list-style-type: none"><li>(i) Company name and address where the engine is located.</li><li>(ii) Date of the report and beginning and ending dates of the reporting period.</li><li>(iii) Engine site rating and model year.</li><li>(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.</li><li>(v) Hours operated for the purposes specified in §60.4211(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §60.4211(f)(2)(ii) and (iii).</li><li>(vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §60.4211(f)(2)(ii) and (iii).</li><li>(vii) Hours spent for operation for the purposes specified in §60.4211(f)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4211(f)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.</li></ul> <p><b>§60.4214(d)(2)</b> 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.</p> <p><b>§60.4214(d)(3)</b> 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) (<a href="http://www.epa.gov/cdx">www.epa.gov/cdx</a>). 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 §60.4.</p>
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<b>4.6.1</b>	<p><b><u>Emissions Unit Number(s)</u></b></p> <p><b>EU: F1</b> Two (2) 12,000 gallon underground gasoline storage tanks, using Stage I vapor recovery systems, fuel feed to 6 dispensers which use Stage II vapor recovery systems.</p>
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**4.6.2 Applicable Standards/Limits:**

**A. Control of Gasoline and Volatile Organic Compound Storage and Handling. Loading Operations – [COMAR 26.11.13.04]**

**(1) Small Storage Tanks – [COMAR 26.11.13.04C]**

**(a) Applicability. – [COMAR 26.11.13.04C(1)]**

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 §C(1)(a) of this regulation.

**(b) Stage I Vapor Recovery. – [COMAR 26.11.13.04C(2)]**

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.

**(2) General Standards – [COMAR 26.11.13.04D]**

“A person may not cause or permit gasoline or VOC having a TVP of 1.5 psia (10.3 kilonewtons/square meter) or greater to be loaded into any tank truck, railroad tank car, or other contrivance unless the:

- (1) Loading connections on the vapor lines are equipped with fittings that have no leaks and that automatically and immediately close upon disconnection to prevent release of gasoline or VOC from these fittings; and
- (2) Equipment is maintained and operated in a manner to prevent avoidable liquid leaks during loading or unloading operations.”

**B. National Emission Standards for Hazardous Air Pollutants - Gasoline Dispensing Facilities (GDF) – [40 CFR 63, Subpart CCCCC]**

“As an existing affected source with a monthly throughput of more than 100,000 gallons per month, that commenced construction prior to November 9, 2006, the Permittee must comply with the requirements of §63.11118, as applicable.

**[Authority: 40 CFR §63.11111 and §63.11113(b)-(c)]**

**§63.11113 When do I have to comply with this subpart?**

**§63.11113(b)** If you have an existing affected source, you must comply with the standards in this subpart no later than January 10, 2011.

**§63.11118 Requirements for facilities with monthly throughput of 100,000 gallons of gasoline or more.**

**§63.11118(a)** You must comply with the requirements in §§63.11116(a) and

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63.11117(b).

**§63.11116(a)** provides that you must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (1) Minimize gasoline spills;
- (2) Clean up spills as expeditiously as practicable;
- (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

**§63.11117(b)** provides that, except as specified in paragraph §63.11117(c), you must only load gasoline into storage tanks at your facility by utilizing submerged filling, as defined in §63.11132, and as specified in paragraph (b)(1) or paragraph (b)(2) of this section.

- (1) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the storage tank.
- (2) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the storage tank.
- (3) Submerged fill pipes not meeting the specifications of paragraphs (b)(1) or (b)(2) of this section are allowed if the owner or operator can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe. Documentation providing such a demonstration must be made available for inspection by the Administrator's delegated representative during the course of the site visit.

**§63.11118(b)** Except as provided in paragraph (c) of this section, you must meet the requirements of either paragraph (b)(1) or paragraph (b)(2) of this section.

- (1) Each management practice in Table 1 to this subpart that applies to your gasoline dispensing facility (GDF).
- (2) If prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(2)(i) and (ii) of this section, you will be deemed in compliance with this subsection.
  - (i) You operate a vapor balance system at your GDF that meets the

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requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

*Note: In keeping with §63.11118(b)(2)(ii), the Department deems gasoline storage tanks operating in compliance with a permit that was issued by the Department before January 10, 2008 to be in compliance with §63.11118(b).*

**§63.11118(d)** Cargo tanks unloading at GDF must comply with the management practices in Table 2 to Subpart CCCCCC of Part 63 – Applicability Criteria and Management Practices for Gasoline Cargo Tanks Unloading at Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More. *Table 2 specifies the following requirements:*

(i) All hoses in the vapor balance system are properly connected,

(ii) The adapters or couplers that attach to the vapor balance line on the storage tank have closures that seal upon disconnect,

(iii) All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight,

(iv) All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection, and

(v) All hatches on the tank truck are closed and securely fastened.

(vi) The filling of storage tanks at GDF shall be limited to unloading by vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 shall be carried on the cargo tank.

**§63.11118(e) - (g)** *See testing, recordkeeping, notification, and reporting requirements. .*

**C. Vapor Recovery at Gasoline Dispensing Facilities – [COMAR 26.11.24]**

**(1) General Requirements – [COMAR 26.11.24.03]**

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- (a) New Gasoline Dispensing Facilities. After May 15, 1993, an owner or operator of a new gasoline dispensing facility may not operate the gasoline dispensing facility unless it is equipped and operated with an approved system. **[Authority: COMAR 26.11.24.03A]**
- (b) An operator may not use or allow the use of defective equipment associated with the transfer of gasoline from a stationary gasoline storage tank to motor vehicle fuel tanks. **[Authority: COMAR 26.11.24.03E]**
- (c) The operator may not install or use a replacement part in an approved system unless that part has been certified by CARB or approved by the Department for the approved system. **[Authority: COMAR 26.11.24.03F]**
- (d) Gasoline storage tanks serving a gasoline dispensing facility that is subject to this chapter shall be equipped with a properly designed and installed pressure and vacuum valve with minimum pressure and vacuum settings as specified in the CARB Executive Order for that system. **[Authority: COMAR 26.11.24.03H]**
- (e) If an approved system is certified under more than one Executive Order, the most recent Executive Order shall apply. **[Authority: COMAR 26.11.24.03I]**
- (2) **Training Requirements for Operation and Maintenance of Approved Systems – [COMAR 26.11.24.06]**
  - (a) **General – [COMAR 26.11.24.06A]**

“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 §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 – [COMAR 26.11.24.06B]**
    - (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

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	<p>(d) Equipment warranties and spare parts.</p> <p>(2) The approved training course shall be of a duration sufficient to properly train persons in the requirements of this chapter.”</p> <p><b>(3) Instructional Signs – [COMAR 26.11.24.08]</b> “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: (i) Instructions, with illustrations, on how to insert the nozzle, dispense gasoline, and how to remove the nozzle; (ii) A warning against attempts to continue refueling after automatic shut-off of the gasoline (that is, topping off); and (iii) The Department's toll-free telephone number which may be used for complaints or comments concerning the use of Stage II vapor recovery systems.”</p>
<p><b>4.6.3</b></p>	<p><b><u>Testing Requirements:</u></b></p> <p><b>A. <u>Control of Gasoline and Volatile Organic Compound Storage and Handling. Loading Operations</u> – [COMAR 26.11.13.04]</b></p> <p>See Monitoring Requirements.</p> <p><b>B. <u>National Emission Standards for Hazardous Air Pollutants - Gasoline Dispensing Facilities (GDF)</u> – [40 CFR 63, Subpart CCCCC]</b></p> <p><b>§63.11120</b> What testing and monitoring requirements must I meet?</p> <p><b>§63.11120(a)</b> Each owner or operator, at the time of installation of a vapor balance system required under §63.11118(b)(1), and every 3 years thereafter, must comply with the requirements in paragraphs (a)(1) and (2) of this section.</p> <p><i>Not applicable - as an existing source issued a permit by the Department prior to January 10, 2008, the installations are exempt from testing under this paragraph.</i></p> <p><b>C. <u>Vapor Recovery at Gasoline Dispensing Facilities. Testing Requirements</u> – [COMAR 26.11.24.04]</b></p> <p>(1) Except as provided in §§F and G of this regulation, an owner subject to this chapter shall perform the following CARB-approved tests:</p> <p>(a) A leak test in accordance with the Vapor Recovery Test Procedure TP-201.3 referenced in Regulation .01-1B(1) of this chapter;</p> <p>(b) 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;</p>

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- (c) 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;
- (d) 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
- (e) 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.

(2) 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.

(3) Stage II Vapor Recovery System. – **[COMAR 26.11.24.04C]**

- (a) An owner of a Stage II vapor recovery system subject to this chapter shall repeat the required tests:
  - (i) In accordance with the test schedule in §C(2) of regulation COMAR 26.11.24.04; and
  - (ii) Upon replacement of 75 percent or more of an approved system.

(b) Test Schedule:

<i>Type of Stage II Vapor Recovery System</i>	<i>Initial Test</i>	<i>Frequency of Retest</i>
(a) Vapor Balance System	Dynamic Back Pressure	12 months
	Leak Test	12 months
	Liquid Blockage Test	5 years
(b) Vapor Assist System – Type 1	Air to Liquid Ratio Test	12 months
	Leak Test	12 months
	Nozzle Regulation Test	5 years
(c) Vapor Assist System – Type 2. Model 400	Nozzle Regulation Test	12 months
	Air to Liquid Ratio Test	12 months
(d) Vapor Assist System – Type 2. Model 600	Air to Liquid Ratio Test	12 months
	Vapor Return Line Integrity Test	12 months

(4) The owner shall test the automatic shutoff and flow prohibiting mechanisms upon installation and at least monthly after to ensure that they operate properly. **[Authority: COMAR 26.11.03.06C]**

(5) If a gasoline dispensing facility fails any test required by this chapter, the

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	<p>owner shall notify the Department of the failure in writing within 5 working days after the test and before retesting. <b>[Authority: COMAR 26.11.24.04D]</b></p> <p>(6) Alternative test methods approved by CARB may be used in place of the test methods specified in §A of regulation COMAR 26.11.24.04, if the alternative test methods are approved by the U.S. EPA as a revision to the SIP, which is Maryland's plan for meeting National Ambient Air Quality Standards. <b>[Authority: COMAR 26.11.24.04E]</b></p> <p>(7) 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. <b>[Authority: COMAR 26.11.24.04F]</b></p>
<b>4.6.4</b>	<p><b><u>Monitoring Requirements:</u></b></p> <p><b><u>A. Control of Gasoline and Volatile Organic Compound Storage and Handling. Loading Operations – [COMAR 26.11.13.04]</u></b></p> <p>The following apply:</p> <p>(1) At least once a month, the Permittee shall monitor a fuel drop to verify that the Stage 1 vapor balance system is used. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p>(2) At least once a month during a delivery, the Permittee shall monitor the fuel drop for liquid spills and check the hose fittings and connections for leaks and proper operation. <b>[Authority: COMAR 26.11.03.06C(3)]</b></p> <p><b><u>B. National Emission Standards for Hazardous Air Pollutants - Gasoline Dispensing Facilities (GDF) – [40 CFR 63, Subpart CCCCC]</u></b></p> <p>See the Testing Requirements listed in Section 4.6.3.B above.</p> <p><b><u>C. Vapor Recovery at Gasoline Dispensing Facilities. Testing Requirements – [COMAR 26.11.24.04]</u></b></p> <p>Monitoring Requirements will be accomplished through the following inspection requirements:</p> <p>(1) Inspection Requirements. – <b>[COMAR 26.11.24.05]</b></p> <p>(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 [Authority: COMAR 26.11.24.05A].</p> <p>(b) Except as provided in §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</p>

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	<p>defective equipment at the facility is placed in operation.</p> <p>(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.</p> <p>(d) For any defective equipment identified by the Department, the operator shall affect 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 affected.</p> <p>(2) Inspection Requirements by a Certified Inspector. – <b>[COMAR 26.11.24.05-1]</b></p> <p>(a) Operator Requirements.</p> <p>(1) “A person that operates a gasoline dispensing facility or a gasoline storage tank with a vapor recovery system shall ensure that a certified inspector performs an inspection of each vapor recovery system.</p> <p>(2) Each vapor recovery system shall be inspected by a certified inspector in accordance with the schedules set forth in COMAR 26.10.03.10.”</p> <p>(b) Inspection Requirements.</p> <p>(1) “The certified inspector shall inspect each vapor recovery system to confirm that:</p> <p>(a) All the necessary equipment has been installed;</p> <p>(b) The equipment is functioning properly; and</p> <p>(c) There is no defective equipment in use.</p> <p>(2) The certified inspector shall review the facility files to confirm that:</p> <p>(a) All testing required by this chapter has been completed;</p> <p>(b) The operator has performed daily inspections of the Stage II equipment;</p> <p>(c) The records required by this chapter are complete and maintained onsite; and</p> <p>(d) All other requirements of this chapter are being met.</p> <p>(3) The certified inspector shall complete an inspection form provided by the Department and submit the completed form to the Department within 30 days after completing the inspection.”</p>
4.6.5	<p><b><u>Record Keeping Requirements:</u></b></p> <p><b><u>A. Control of Gasoline and Volatile Organic Compound Storage and Handling. Loading Operations – [COMAR 26.11.13.04]</u></b></p>

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The Permittee shall maintain a record of the results of the monthly observations for use of the Stage I vapor balance system and results of the monthly observations for leaks and spills. [Authority: **COMAR 26.11.03.06C(3)**]

**B. National Emission Standards for Hazardous Air Pollutants - Gasoline Dispensing Facilities (GDF) – [40 CFR 63, Subpart CCCCC]**

**§63.11125 What are my recordkeeping requirements?**

**§63.11125(a)** Each owner or operator subject to the management practices in **§63.11118** must keep records of all tests performed under §§63.11120(a) and (b).

*The facility is exempt from testing requirements under §63.11120.*

**§63.11125(b)** (not applicable)

**C. Vapor Recovery at Gasoline Dispensing Facilities. Record Keeping Requirements – [COMAR 26.11.24.07]**

- (1) “An operator subject to this chapter shall create and maintain a record file at the facility.
- (2) 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.
- (3) The equipment maintenance records shall include:
  - (a) 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;
  - (b) 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
  - (c) Inspection reports and any other information relating to maintenance or care of the approved system.”

**4.6.6 Reporting Requirements:**

**A. Control of Gasoline and Volatile Organic Compound Storage and Handling. Loading Operations – [COMAR 26.11.13.04]**

See Record Keeping Requirements.

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**B. National Emission Standards for Hazardous Air Pollutants - Gasoline Dispensing Facilities (GDF) – [40 CFR 63, Subpart CCCCCC]**

**§63.11124 What notifications must I submit and when?**

**§63.11124(a)** Each owner or operator subject to the control requirements in §63.11117 must comply with paragraphs (a)(1) through (3) of this section.

- (1) (not applicable)
- (2) (not applicable)

(3) If, prior to January 10, 2008, you are operating in compliance with an enforceable State, local, or tribal rule or permit that requires submerged fill as specified in §63.11117(b), you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (a)(1) or paragraph (a)(2) of this section.

**§63.11124(b)** Each owner or operator subject to the control requirements in §63.11118 must comply with paragraphs (b)(1) through (5) of this section.

- (1) (not applicable)
- (2) (not applicable)

(3) If, prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(3)(i) and (ii) of this section, you are not required to submit an Initial Notification or a Notification of Compliance Status under paragraph (b)(1) or paragraph (b)(2) of this subsection.

(i) You operate a vapor balance system at your gasoline dispensing facility that meets the requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

(A) Achieves emissions reduction of at least 90 percent.

(B) Operates using management practices at least as stringent as those in Table 1 to this subpart.

(ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraphs (b)(3)(i)(A) or (b)(3)(i)(B) of this section.

*Note: In keeping with §§63.11124(a)(2) and 63.11124(b)(3)(ii), owners or operators of gasoline storage tanks operating in compliance with a permit that was issued by the Department before January 10, 2008 are not required to submit an Initial Notification or a Notification of Compliance Status under §63.11124 (a)(1)-(2) or paragraph §63.11124 (b)(1)-(2).*

- (4) (not applicable)

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(5) (not applicable)

**§63.11126 What are my reporting requirements?**

Each owner or operator subject to the management practices in §63.11118 shall report to the Administrator the results of all volumetric efficiency tests required under §63.11120(b). Reports submitted under this paragraph must be submitted within 180 days of the completion of the performance testing.

*The facility is exempt from testing requirements under §63.11120. No reports are required.*

**C. Vapor Recovery at Gasoline Dispensing Facilities. Reporting Requirements – [COMAR 26.11.24.07E]**

“The following reporting requirements apply to any test required 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.”

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**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. 118 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;

*(Applicable to Air Quality Control Area II)*

The boilers are subject to the following requirements:

COMAR 26.11.09.05A(1), 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 greater than 20 percent opacity.

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.

COMAR 26.11.09.07A(1)(c), 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.

- (2) No. 0 Fuel-burning equipment using solid fuel and having a heat input of less than 350,000 Btu (0.37 gigajoule) per hour;
- (3) No. 19 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 emergency diesel generators rated at less than 500 brake horsepower 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.

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- (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.
- (4) 0 Space heaters utilizing direct heat transfer and used solely for comfort heat;
- (5)  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;
- (6) No. 17 Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;

The containers are subject to COMAR 26.11.19.09D, which requires that the Permittee control emissions of volatile organic compounds (VOC) from cold degreasing operations by meeting the following requirements:

- (a) COMAR 26.11.19.09D(2)(b), which establishes that the Permittee shall not use any VOC degreasing material that exceeds a vapor pressure of 1 mm Hg at 20 °C;
- (b) COMAR 26.11.19.09D(3)(a—d), which requires that the Permittee implement good operating practices designed to minimize spills and evaporation of VOC degreasing material. These practices, which shall be established in writing and displayed such that they are clearly visible to operators, shall include covers (including water covers), lids, or other

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methods of minimizing evaporative losses, and reducing the time and frequency during which parts are cleaned;

- (c) COMAR 26.11.19.09D(4), which prohibits the use of any halogenated VOC for cold degreasing.

The Permittee shall maintain on site for at least five (5) years, and shall make available to the Department upon request, the following records of operating data:

(i) Monthly records of the total VOC degreasing materials used; and

(ii) Written descriptions of good operating practices designed to minimize spills and evaporation of VOC degreasing materials.

- (7) 0 Commercial bakery ovens with a rated heat input capacity of less than 2,000,000 Btu per hour;
- (8) 0 Kilns used for firing ceramic ware, heated exclusively by natural gas, liquefied petroleum gas, electricity, or any combination of these;
- (9) 0 Confection cookers where the products are edible and intended for human consumption;
- (10) 0 Die casting machines;
- (11) ✓ Photographic process equipment used to reproduce an image upon sensitized material through the use of radiant energy;
- (12) ✓ Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;
- (13)     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;
- (14) 0 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;
- (15) 0 Containers, reservoirs, or tanks used exclusively for electrolytic plating work, or electrolytic polishing, or electrolytic stripping of brass, bronze, cadmium, copper, iron, lead, nickel, tin, zinc, and precious metals;
- (16) Containers, reservoirs, or tanks used exclusively for:
- (a) 0 Dipping operations for applying coatings of natural or synthetic resins that contain no VOC;

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- (b)   0   Dipping operations for coating objects with oils, waxes, or greases, and where no VOC is used;
  - (c)   ✓   Storage of butane, propane, or liquefied petroleum, or natural gas;
  - (d) No.   5   Storage of lubricating oils;
  - (e) No.   0   Unheated storage of VOC with an initial boiling point of 300 °F (149 °C) or greater;
  - (f) No.  46   Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
  - (g) No.   0   Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;
  - (h) No.  2500  The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (17)   0   Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;
- (18) Crucible furnaces, pot furnaces, or induction furnaces, with individual capacities of 1,000 pounds (454 kilograms) or less each, in which no sweating or distilling is conducted, or any fluxing is conducted using chloride, fluoride, or ammonium compounds, and from which only the following metals are poured or in which only the following metals are held in a molten state:
- (a)   0   Aluminum or any alloy containing over 50 percent aluminum, if no gaseous chloride compounds, chlorine, aluminum chloride, or aluminum fluoride is used;
  - (b)   0   Magnesium or any alloy containing over 50 percent magnesium;
  - (c)   0   Lead or any alloy containing over 50 percent lead;
  - (d)   0   Tin or any alloy containing over 50 percent tin;
  - (e)   0   Zinc or any alloy containing over 50 percent zinc;
  - (f)   0   Copper;
  - (g)   0   Precious metals;
- (19)   ✓   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;

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- (20) ✓ 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;
- (21) ✓ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;
- (22) ✓ Potable water treatment equipment, not including air stripping equipment;
- (23) 0 Firing and testing of military weapons and explosives;
- (24) 0 Emissions resulting from the use of explosives for blasting at quarrying operations and from the required disposal of boxes used to ship the explosive;
- (25) ✓ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;
- (26) 0 Grain, metal, or mineral extrusion presses;
- (27) 0 Breweries with an annual beer production less than 60,000 barrels;
- (28) ✓ Natural draft hoods or natural draft ventilators that exhaust air pollutants into the ambient air from manufacturing/industrial or commercial processes (Permittee enumerated 41) ;
- (29) ✓ Laboratory fume hoods and vents (Permittee enumerated 263)
- (30) No. 0 Sheet-fed letter or lithographic printing press(es) with a cylinder width of less than 18 inches;

*For the following, attach additional pages as necessary:*

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

(none identified)

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

No. 2 Usage of *paraformaldehyde* to decontaminate biological research suites, SSP and equipment.

No. 1 Usage of *ethylene oxide* to decontaminate laboratory research equipment and supplies

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**SECTION VI. STATE-ONLY ENFORCEABLE CONDITIONS**

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

**1. FACILITY-WIDE**

**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 construed as authorizing or permitting the creation of, or maintenance of, nuisance or air pollution.”

**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 nuisance or air pollution is created.”

**Toxic Requirements**

**COMAR 26.11.15.05**, which requires the installation and operation of T-BACT for new installations or sources discharging a toxic air pollutant to the atmosphere.

**COMAR 26.11.15.06**, states that new sources or installations must comply with the allowable emissions of toxic air pollutants. Existing sources of installation must demonstrate compliance with the list of toxic air pollutants for existing sources.

The Permittee shall certify in writing to the Department the results of an air toxics analysis for the previous calendar year by April 1 of each year during the term of this permit. The air toxics analysis shall include either:

- (a) a statement that the previously submitted toxics compliance demonstrations remain valid; or
- (b) a new toxics compliance demonstration developed in accordance with the requirements set forth under COMAR 26.11.15, if the Permittee has made changes to its operations that make the last submitted compliance demonstration invalid.

**2. EMISSION UNITS B5 AND B6 [MDE Reg. No. 021-0131-2-0066 and 2-0067]**

Two (2) medical waste incinerators, each rated at 1,000 lbs/hr, located in Building No. 393. Installed June 1995

- 1. The incinerator may charge up to 400 pounds per charge of animal bedding materials. Under this circumstance, the incinerator cannot be loaded within the next 24 minutes after such a charge.
- 2. Radioactive waste shall not be incinerated without having in current effect all required permits from the Department.

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The following requirements are from Permit to Construct number 10-2-0066 & 0067 issued by the Department on June 6, 1995:

3. To meet the T-BACT requirement for HCl emissions, the incinerators shall be equipped wet collision caustic scrubbers, or equivalent. The scrubbers shall be designed to achieve a removal efficiency of at least 95 percent unless the HCl concentration does not exceed 50 parts per million (ppm) by volume in the dry scrubber exhaust gases corrected to 7 percent oxygen (O<sub>2</sub>).
4. To meet the T-BACT requirement for incomplete combustion products:
  - (a) The incinerators shall be equipped with secondary combustion chambers designed to meet a minimum retention time of 2 seconds at 1,800 °F.
  - (b) The carbon monoxide (CO) concentration in the secondary combustion chamber exhaust gas shall not exceed 100 ppm corrected to 7% O<sub>2</sub>.
5. The incinerators shall be constructed with the following design specifications:
  - (a) The primary combustion chamber shall have a minimum interior volume of 568 cubic feet;
  - (b) The secondary combustion chamber shall have a minimum interior volume of 604 cubic feet to meet the T-BACT requirement of a 2 second retention time at 1,800 °F.
  - (c) The incinerators shall be equipped with electronic devices to continuously monitor and record the temperature of the flue gases exiting the primary and secondary combustion chamber
  - (d) Continuous emission monitors and recorders shall be installed to continuously monitor and record the CO and O<sub>2</sub>.
6. Auxiliary burners shall be used to raise the temperature in the secondary combustion chamber to greater than 1,700 °F prior to charging any special medical waste [T-BACT].
7. The secondary combustion chambers shall be maintained at a temperature of not less than 1,700 °F while the incinerators are charging any special medical waste [T-BACT].
8. The weight of each charge and the time it is fed into the primary combustion chamber shall be recorded.
9. The weight of each charge may not exceed one-fifth of the rated hourly burn. The time interval between two succeeding charges may not be less than the time (T) in minutes determined as follows:

$$T = 60 \times [(charge/hourly\ burn\ rate)]$$

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10. Each incinerator shall not burn more than 1,000 pounds per hour.
11. The scrubbing solution exiting the wet collision scrubber, or equivalent, shall be kept at a pH of not less than 7.0 while the incinerator is in operation.
12. The temperature of the gas leaving the secondary combustion chamber shall be maintained at least 1,500 °F for at least two hours when the temperature of the gas leaving the primary combustion chamber drops below 1,400 °F.
13. The incinerators and the scrubbers shall be properly maintained and visually inspected daily to ensure the integrity and good working conditions for each unit operation. Each inspection shall be recorded and maintained on-site.
14. The Permittee shall not use the incinerators to dispose of any waste generated off-site. The Permittee shall retain an outside contractor to haul its special medical waste away for a proper off-site disposal when its incineration system has been shut down for more than four (4) days.
15. Ash shall be visually inspected to assure the complete combustion of infectious waste.

**3. EMISSION UNITS C1 THROUGH C15**

- **15 Emergency diesel generators 500 kW – 2000 kW firing diesel fuel oil.**

**COMAR 26.11.36.03 – Requirements for Stationary Engines.03 Requirements for Stationary Engines.**

A. The owner or operator of an engine is subject to requirements under 40 CFR Part 63, Subpart ZZZZ, as applicable.\*

B. The owner or operator of an engine is subject to requirements, as applicable, under:

- (1) 40 CFR Part 60 Subpart IIII\*; or
- (2) 40 CFR Part 60 Subpart JJJJ\*.

\* In May 2015, the United States Court of Appeals for the District of Columbia Circuit vacated paragraphs 40 CFR 60.4211(f)(2)(ii)—(iii), 60.4243(d)(2)(ii)—(iii), and 63.6640(f)(2)(ii)—(iii). Therefore, engines subject to this chapter do not have to comply with those provisions.

**PART 70 OPERATING PERMIT FACT SHEET  
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**BACKGROUND**

Fort Detrick is a Federal military installation located within the city limits of Frederick, Maryland in Frederick County. The military installation is comprised of the following four noncontiguous parcels: Main Post (728 acres); Area B, including the FLAIR Armory (399 acres); Water Treatment Plant (7 acres); and Sewage Treatment Plant (9 acres). Frederick County is located in emission control Area II (in fact Area II is comprised only of Frederick County). Only the Main Post is subject to Part 70 permitting. Fort Detrick houses several medical research laboratories and a worldwide communications area and satellite dishes for satellite tracking. Consequently, the facility's equipment list includes steam generating boilers, space heating boilers, several incinerators, and emergency generators. The SIC code for the facility is 9711.

The following table summarizes the actual emissions from Fort Detrick based on its Annual Emission Certification Reports:

**Table 1: Actual Emissions**

Calendar Year	NO <sub>x</sub> (TPY)	SO <sub>x</sub> (TPY)	PM <sub>10</sub> (TPY)	CO (TPY)	VOC (TPY)	Total HAP (TPY)
2019	41.81	0.02	12.89	24.19	4.67	< 1
2018	34.63	0.54	11.45	15.65	4.08	1.2
2017	25.81	7.39	30.79	6.51	1.91	< 2
2016	34.17	2.51	22.81	20.18	2.62	< 2
2015	43.58	15.77	39.00	21.87	2.67	< 2

The major source threshold for triggering Title V permitting requirements in Frederick County is 25 tons per year for VOCs or NO<sub>x</sub>, 100 tons per year for any other criteria pollutant, 10 tons per year of any single hazardous air pollutant (HAP) or 25 tons per year of any combination of HAPs. Since the actual emissions of NO<sub>x</sub> emissions continue to be greater than the major source thresholds of 25 tons per year, Fort Detrick is required to obtain a Part 70 Operating Permit (Title V). The initial Title V Operating Permit was issued on April 1, 2004. Subsequent renewals were issued in 2009, and 2014. The Title V permit renewal application for Fort Detrick was received at the Department on October 24, 2019. An administrative completeness review was conducted and the application was deemed to be timely and administratively complete. The facility is operating under an application shield.

*New or Removed Equipment*

Since the issuance of the last Title V permit, Fort Detrick added the following new equipment to its premises:

- Three (3) natural gas-fired boilers (EU A0503, A0504, and A0505) (MDE Reg. No. 021-131-5-0503, 5-0504 and 5-0505), each rated at 1.6 MMBTU/hr, located Bldg 1430, and 1532, respectively. Installed on May 22, 2017, and February 3, 2017.
- Two (2) natural gas-fired boilers (EU A0506, and A0507) (MDE Reg. No. 021-131-5-0506 and 5-0507), each rated at 4.184 MMBTU/hr, located Bldg 267. Installed on August 27, 2018.

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- Three (3) natural gas-fired boilers (EU A0506, A0509, and A0510) (MDE Reg. No.021-131-5-0508, 5-0509 and 5-0510), each rated at 3.348 MMBTU/hr, located Bldg 370. Installed on August 27, 2018.
- Two (2) natural gas-fired boilers (EU A0511 and A0512) (MDE Reg. No. 021-131-5-0511 and 5-0512), each rated at 1.674 MMBTU/hr, located Bldg 397. Installed on August 27, 2018.
- One (1) natural gas-fired boiler (EU A0513) (MDE Reg. No. 021-131-5-0513), rated at 2.511 MMBTU/hr, located Bldg 516. Installed on August 27, 2018.
- One (1) natural gas-fired boiler (EU A0514) (MDE Reg. No. 021-131-5-0514), rated at 1.0 MMBTU/hr, located Bldg 525. Installed on January 5, 2018.
- Two (2) natural gas-fired boilers (EU A0515 and A0516) (MDE Reg. No. 021-131-5-0515 and 5-0516), each rated at 2.6 MMBTU/hr, located Bldg 397. Installed on September 12, 2017.
- One (1) natural gas-fired boiler (EU A0517) (MDE Reg. No. 021-131-5-0517), rated at 3.046 MMBTU/hr, located Bldg 1079. Installed on May 31, 2018.
- Two (2) natural gas-fired boilers (EU A0518 and A0519) (MDE Reg. No. 021-131-5-0518 and 5-0519), each rated at 3.0 MMBTU/hr, located Bldg 568. Installed September 12, 2017.
- Two (2) natural gas-fired boilers (EU A0520 and A0521) (MDE Reg. No. 021-131-5-0520 and 5-0521), each rated at 5.021 MMBTU/hr, located Bldg 1299. Installed February 21, 2019.
- One (1) natural gas-fired boiler (EU A0522) (MDE Reg. No. 021-131-5-0522) rated at 1.0 MMBTU/hr, located Bldg 1422. Installed September 12, 2017.
- One (1) natural gas-fired boiler (EU A0523) (MDE Reg. No. 021-131-5-0523) rated at 5.021 MMBTU/hr, located Bldg 1299. Installed February 21, 2019.
- One (1) natural gas-fired boiler (EU A0524) (MDE Reg. No. 021-131-5-0524) rated at 1.0 MMBTU/hr, located Bldg 1422. Installed September 12, 2017.
- EU A0525: One (1) natural gas-fired boiler (EU A0525) (MDE Reg. No. 021-131-5-0525) rated at 1.6 MMBTU/hr, located Bldg 1532. Installed February 3, 2017.

During the same period, the Permittee has permanently shutdown, the following units:

- Four (4) dual-fuel (natural gas & No. 6 fuel oil) steam boilers (EUs: A1, A2, A1-1, A2-1) (MDE Reg. No. 021-0131-5-0116, 5-0117, 5-0267, and 5-0268) rated at 77 MMBtu of heat input, and located at Building 190.

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- Four (4) natural gas-fired boilers (EUs: A11, A12, A14, and A17) (MDE Reg. No. 021-0131-5-0223, 5-0213, 5-0229, and 5-0230) located at various buildings.
- Two (2) small natural gas and No. 2 fuel oil fired municipal waste combustion units (EU: B1 & B4) (MDE Reg. No. 021-0131-2-0049 & 2-0050), each rated at 39 ton/day and each equipped with an emissions control system and a waste heat recovery boiler. The units were originally installed in 1975 and modified/equipped in 2009 with new rotary atomizing wet scrubbers and charcoal filtration systems, all located at Building 393.
- One (1) 764 bhp (570 kW) emergency diesel fuel-fired generator (EUs: C-12) (021-0131-9-0236) located at Building 190 (boiler plant).

*Applicable NSPS and MACTs*

Several of the boilers are subject to Federal Area Source NESHAP for Industrial, Commercial, and Institutional Boilers 40 CFR 63, Subpart JJJJJJ. There are two 'large' hospital-medical-infectious waste incinerators (HMIWI) at the facility, which were constructed prior to the effective date for the NSPS 40 CFR 60, Subpart Ec and 40 CFR 60, Subpart AAAA. However, the installations are subject to Federal Emission Guidelines (EG) 40 CFR 60, Subpart Ce, and the Federal Implementation Plans 40 CFR 62, Subpart HHH for HMIWI. Additionally, there are 15 emergency diesel generators subject to either the NSPS 40 CFR Part 60, Subpart IIII or the NESHAP 40 CFR 63, Subpart ZZZZ. There is a gasoline dispensing facility with two (2) 12,000 gallon underground storage tanks subject to the NESHAP 40 CFR 63, Subpart CCCCCC.

**COMPLIANCE ASSURANCE MONITORING (CAM)**

The U.S. Army Garrison at Fort Detrick is exempt from Compliance Assurance Monitoring (CAM) plan requirements since no individual installation with an add-on control device is a major source of any regulated pollutant before control.

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 pre-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. US Coast Guard Yard has no large emission units that rely on air pollution control (APC) equipment to achieve compliance, therefore the facility is not subject to CAM.

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**GREENHOUSE GAS (GHG) EMISSIONS**

Fort Detrick 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., steam heating plants, incinerators, and internal combustion engines contained within the facility premises applicable to Fort Detrick. 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, Fort Detrick is a potential major source of GHG emissions (threshold: 100,000 tpy CO<sub>2e</sub>) for GHGs. The Permittee must quantify facility-wide GHG emissions and report them in accordance with Section 3 of the Part 70 permit.

The following table summarizes the actual emissions from Fort Detrick based on its Annual Emission Certification Reports:

**Table 2: Greenhouse Gases Emissions Summary**

<b>GHG</b>	<b>Conversion factor</b>	<b>2015</b> tpy CO <sub>2e</sub>	<b>2016</b> tpy CO <sub>2e</sub>	<b>2017</b> tpy CO <sub>2e</sub>	<b>2018</b> tpy CO <sub>2e</sub>	<b>2019</b> tpy CO <sub>2e</sub>
Carbon Dioxide, CO <sub>2</sub>	1	25,400	18,100	6,529	18,302	11,326
Methane, CH <sub>4</sub>	21	3.64	2.87	2.18	0.24	0.12
Nitrous Oxide, N <sub>2</sub> O	310	0.48	0.48	0.05	0.19	0.02
Total GHG CO <sub>2eq</sub>		25,404	18,103	8,547	18,302	11,326

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**EMISSION UNIT IDENTIFICATION**

Fort Detrick has identified the following emission units as being subject to Title V permitting requirements and having applicable requirements:

**Table 3: Emission Unit Identification**

<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
A8 and A9	021-0131-4-0185 and 4-0186	Boiler	Two (2) Burnham Model 4F-450, No. 2 fuel-oil boilers, each rated at 3.35 MMBtu/hr, located in Bldg 1673.	12/1986 and 01/1988
A8-1 and A9-1	021-0131-4-0278 and -4-0279	Boiler	Two (2) Burnham natural gas and No. 2 fuel oil-fired boilers, each rated at 3.35 MMBtu/hr, located in Bldg. 1673.	09/2013
A15	021-0131-5-0231	Boiler	One (1) Peerless Model #G-LC-09-WUP natural gas-fired boiler, rated at 1.664 MMBtu/hr, located in Bldg. 1435.	6/29/98
A16	021-0131-5-0239	Boiler	One (1) H.B. Smith Co. Inc. Model 28A-7 natural gas-fired boiler, rated at 2.163 MMBtu/hr, located at Bldg. 1507.	1/19/00
A20-1	021-0131-5-0346	Boiler	One (1) PVI Industries Model 3000P natural gas fired boiler rated at 2.4 MMBtu/hr located in Bldg. 1507	06/2000
A21	021-0131-5-0292	Boiler	One (1) Weil-McLain Model 1088 natural gas fired boiler rated at 2.887 MMBtu/hr, located in Bldg. 1529	01/2006
A23	021-0131-5-0323	Boiler	One (1) Raypak Model # P-1223 natural gas fired boiler rated at 1.223 MMBtu/hr, located at Bldg 1507	08/20/2004
A24 and A25	021-0131-5-0377 and 5 - 0378	Boiler	Two (2) Bryan Model CLN-270-W natural gas fired boilers rated at 2.7 million Btu/hr, located at Bldg. 693	07/2008
A26 and A27	021-0131-5-0381 and - 0382	Boiler	Two (2) Weil-McLain Mdl 980 natural gas fired boilers rated at 1.23 million Btu/hr, located at Bldgs. 1545 and 1546	02/2007

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<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
A28	021-0131-5-0457	Boiler	One (1) Fulton Model PHW-1400 natural gas-fired boiler rated at 1.4 million Btu/hr, located in Bldg. 1419	12/3/2012
A0503, A0504, and A0505	021-131-5-0503, 5-0504 and -5-0505	Boiler	Three (3) Hydrotherm (Model KN-16) natural gas-fired boilers, each rated at 1.6 MMBTU/hr, located Bldg 1430, and 1532, respectively.	5/22/2017 & 2/3/2017
A0506, and A0507	021-131-5-0506 and -5-0507	Boiler	Two (2) Hurst (Model S4-125-150S) natural gas-fired boilers, each rated at 4.184 MMBTU/hr, located Bldg 267.	8/27/2018
A0508, A0509, and A0510	021-131-5-0508, 5-0509 and -5-0510	Boiler	Three (3) Hurst (Model 4VT-100-125S) natural gas-fired boilers, each rated at 3.348 MMBTU/hr, located Bldg 370.	8/27/2018
A0511, and A0512	021-131-5-0511 and -5-0512	Boiler	Two (2) Hurst (Model 4VT-1S-0050-0150) natural gas-fired boilers, each rated at 1.674 MMBTU/hr, located Bldg 397.	8/27/2018
A0513	021-131-5-0513	Boiler	One (1) natural gas-fired boiler (Smith Model G28HE-s-10), each rated at 2.511 MMBTU/hr, located Bldg 516.	8/27/2018
A0514	021-131-5-0514	Boiler	One (1) natural gas-fired boiler (Hydrotherm Model KN-10) rated at 1.0 MMBTU/hr, located Bldg 525.	1/5/2018
A0515, and A0516	021-131-5-0515 and -5-0516	Boiler	Two (2) Hydrotherm (Model KN-26) natural gas-fired boilers, each rated at 2.6 MMBTU/hr, located Bldg 397.	9/12/2017
A0517	021-131-5-0517	Boiler	One (1) Smith (Model G28HE-S-12) natural gas-fired boiler, rated at 3.046 MMBTU/hr, located Bldg 1079.	5/31/2018
A0518 and A0519	021-131-5-0518 and 5-0519	Boiler	Two (2) Hydrotherm (Model KN-30) natural gas-fired boilers, each rated at 3.0 MMBTU/hr, located Bldg 568.	9/12/2017
A0520 and A0521	021-131-5-0520, and 5-0521	Boiler	Two (2) Hurst (Model 400-150) natural gas-fired boilers, each rated at 5.021 MMBTU/hr, located Bldg 1299.	2/21/2019

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<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
A0522	021-131-5-0522	Boiler	One (1) Hydrotherm (Model KN-10) natural gas-fired boiler, rated at 1.0 MMBTU/hr, located Bldg 1422.	9/12/2017
A0523	021-131-5-0523	Boiler	One (1) Hurst (Model 400-150) natural gas-fired boiler, rated at 5.021 MMBTU/hr, located Bldg 1299.	2/21/2019
A0524	021-131-5-0524	Boiler	One (1) Hydrotherm (Model KN-10) natural gas-fired boiler, rated at 1.0 MMBTU/hr, located Bldg 1422.	9/12/2017
A0525	021-131-5-0525	Boiler	One (1) Hydrotherm (Model KN-16) natural gas-fired boiler, rated at 1.6 MMBTU/hr, located Bldg 1532.	2/3/2017
B5 and B6	021-0131-2-0066 and 2-0067	Incinerator	Two (2) hospital, medical, and infectious waste incinerators (HMIWI), each rated at 1,000 lb/hr and each equipped with an emissions control system and a waste heat recovery boiler, located in Bldg. 393	06/1995
C1 and C2	021-0131-9-0101 and 9-0102	Emergency Diesel Generators	Two (2) 993 kW diesel fuel-fired generators, Alban and Caterpillar, located in Bldg. 1425	01/1985
C3 thru C6	021-0131-9-0148 (registered as a group)	Emergency Diesel Generators	Four (4) 2,000 kW diesel fuel-fired generators, Williams and Lane, located in Bldg. 1673	1985
C7	021-0131-9-0153	Emergency Diesel Generator	One (1) 900 kW diesel fuel-fired generator, Caterpillar, located in Bldg 1420	05/1996
C8	021-0131-9-0155	Emergency Diesel Generator	One (1) 880 kW diesel fuel-fired Caterpillar Model 3508 generator located in Bldg. 1414	09/2000
C9	021-0131-9-0202	Emergency Diesel Generator	One (1) 1,502 BHP (1000 kW) diesel fuel-fired Caterpillar Model 3508 generator located in Bldg. 1414	09/2004
C10	021-0131-9-0205	Emergency Diesel Generator	One (1) 2,876 BHP (2000 kW) diesel fuel-fired Caterpillar Model 3516/SR4B generator located in Bldg. 1425	09/2004

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<b>Emissions Unit No.</b>	<b>MDE Registration No.</b>	<b>Emissions Unit Name</b>	<b>Emissions Unit Description</b>	<b>Date of Installation</b>
C11	021-0131-9-0312	Emergency Diesel Generator	One (1) 600 kW Kohler Model 600REOZv located in Bldg 693	05/2011
C13	021-0131-9-0209	Emergency Diesel Generator	One (1) 685 BHP (511 kW) diesel fuel-fired generator, Perkins Model CV12TA-RG3 located at Bldg. 810	09/1988
C14	021-0131-9-0317	Emergency Diesel Generator	One (1) 1000 kW Kohler Model 1000REOZMB located in Bldg 568	09/2011
C15	021-0131-9-0353	Emergency Diesel Generator	One (1) 2000 kW Caterpillar Model SR45/3516C located in Bldg 8100	12/2012
C16	021-0131-9-0354	Emergency Diesel Generator	One (1) 500 kW Kohler Model 500REOZJ located in Bldg 1419	12/2012
F1	021-0131-9-0146	Gasoline Storage tanks	Two (2) 12,000-gallon underground gasoline storage tanks, using Stage I vapor recovery systems, fuel feed to 6 dispensers which use Stage II vapor recovery systems	06/2004

**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.

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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 – Boilers for Space Heating and Hotwater - EU A8, A79, A8-1 & A9-1**

#### **EU: A8 and A9 [MDE Reg. Nos. 4-0185 and 4-0186]**

Two (2) Burnham (Model 4F-450) No. 2-fired boilers, each rated at 3.35 MMBtu/hr, located in Bldg 1673. Installed on December 1986 & January 1988.

#### **EU: A8-1 and A9-1 [MDE Reg. Nos. 4-0278 and 4-0279]**

Two (2) Burnham (Model 4F-450) natural gas and No. 2-fired boilers, each rated at 3.35 MMBtu/hr, located in Bldg 1673. Installed on September 2013.

These boilers provide space heating and hot water for residential buildings at Fort Detrick. No control equipment is currently used on these units. Emission Units A8 and A9 were registered with the Department in 1988 and 1992. No reconstruction or modification has occurred on these boilers since then. However, an after-the-fact Permit to Construct was issued by the Department on July 16, 2014 for the boilers designated as A8-1 and A9-1 above, which replaced boilers A8 and A9 in September 2013. The NSPS, 40 CFR part 60 subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, is not applicable since the individual heat input capacity is less than 10 million Btu/hr. However, the boilers are subject to certain work practice requirements under the area source NESHAP, 40 CFR 63, Subpart JJJJJJ.

## **APPLICABLE STANDARDS and LIMITATIONS**

### **A. Control of Visible Emissions**

#### **[COMAR 26.11.06.02C(1)] – Visible Emission Standards.**

“In Areas I, II, V and VI, a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.”

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**[COMAR 26.11.06.02A(2)] – Exception.**

“The visible emissions standards in C of this regulation do not apply to emissions during start-up and process modification 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 60 minute period.”

**Compliance Demonstration**

As part of the monitoring requirements, the Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions. **[Authority: COMAR 26.11.03.06C(3)]** As part of the recordkeeping requirements, the Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. **[Authority: COMAR 26.11.03.06C(3)]** 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 Oxides from Fuel Burning Equipment**

“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:

(c) Distillate fuel oils, 0.3 percent;” **[Reference: COMAR 26.11.09.07A(2)]**

**Compliance Demonstration**

As part of the monitoring requirements, the Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of fuel oil. **[Authority: COMAR 26.11.03.06C(3)]** As part of the recordkeeping requirements, the Permittee shall retain fuel supplier certifications stating that the fuel oil is in compliance with this regulation. **[Authority: COMAR 26.11.09.07C]** The Permittee shall report fuel supplier certifications to the Department upon request. **[Authority: COMAR 26.11.09.07C]**

**C. Control of Nitrogen Oxides**

**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 NO<sub>x</sub> emissions based on the recommendations of equipment vendors and other information including the source's operating and maintenance experience;

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- (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**

As part of the monitoring requirements, the Permittee shall develop and implement an operations and maintenance plan. **[Authority: COMAR 26.11.09.08F(1)]** As part of the recordkeeping requirements, the Permittee shall maintain: the operating and maintenance plan at the premises. **[Authority: COMAR 26.11.09.08F(1)(c)]**; records of training program attendance for each operator on site for at least 5 years. **[Authority: COMAR 26.11.09.08F(1)(e)]**; and records of fuel use which demonstrate that the boiler meets the definition of a space heater. **[Authority COMAR 26.11.09.08K(3) and COMAR 26.11.03.06C(3) ]** As part of the reporting requirements, the following requirements apply: the Permittee shall submit a list of trained operators and training program attendance to the Department upon request. **[Authority: COMAR 26.11.09.08E(5)]** Also, the Permittee shall inform the Department no later than 60 days after the date when the boilers no longer qualify as a space heater, and shall meet the requirements under COMAR 26.11.09.08E or identify an alternative NOx RACT requirement under COMAR 26.11.09.08 with which the source will comply. **[Authority: COMAR 26.11.09.08F(2)]**

**D. Operational Limitations**

The following requirements apply:

- (1) The Permittee shall burn only No. 2 fuel oil in units A8 and A9 and only No. 2 fuel oil or natural gas in units A8-1 and A9-1 unless the Permittee applies for and receives an approval or permit from the Department to burn an alternative fuel. **[Authority: COMAR 26.11.02.09A]**
- (2) The Permittee shall conduct initial and subsequent boiler tune-ups in accordance with the procedures specified in §63.11223(b): **[Authority: 40 CFR 63, Subpart JJJJJJ, §63.11201(b), §63.11214(b), §63.11223, and, Table 2, item 12]**
  - (a) Prior to the issuance of this Part 70 Permit, the Permittee shall complete an initial tune-up of the boilers A8, A9, A8-1, and A9-1 and submit the required Notifications of Compliance Status to the EPA.

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- (b) The Permittee shall conduct subsequent tune-ups of each boiler every 5 years. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.

**Compliance Demonstration**

As part of the recordkeeping requirements, the Permittee shall maintain a record of the quantity each type of fuel burned. **[Authority: COMAR 26.11.02.19C(1)(c)]** The Permittee shall maintain the records and copies of all notifications and reports required by 40 CFR §63.11225(c) and (d) make them available to the Department and EPA upon request.

As part of the reporting requirements, the following requirements apply:

- (1) The Permittee shall submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. **[Authority: COMAR 26.11.02.19C(2)]** The Permittee is required to submit the following notifications and reports to the Administrator: **[Authority: §63.11225]**

- (a) An Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to 40CFR63, Subpart JJJJJJ. **[Reference: §63.11225(a)(2)]** **Note:** For units A8 and A9, the required initial notification of applicability was submitted to EPA and MDE on September 13, 2011. For units A8-1 and A9-1, the initial notification was submitted late on March 10, 2014.
- (b) The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs §63.11225(a)(4)(i) through (v), as applicable, and signed by a responsible official. **[Reference: §63.11225(a)(4)]**

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).... **[Reference: §63.11225(a)(4)(i)]**

- (c) Every five (5) years, by March 1 after the tune-ups are conducted, the Permittee must prepare and submit to the delegated authority, upon request, a compliance certification report that contains the following information: **[Authority: condition E(2), Permits to Construct 021-0132-4-0278 and 4-279 issued on July 16, 2014; 40 CFR§63.11225(b)]**
- (i) Company name and address.
- (ii) 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:
- a. "This facility complies with the requirements in §63.11223 to conduct a 5-year tune-up of each boiler."

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- b. 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 action taken.

**Emission Unit – Boilers for Space Heating and Hotwater - A15, A16, A20-1, A21, A23, A24, A25, A26, A27, A28 and EU A0503 thru A0525**

**EU: A15 [MDE Reg. Nos. 021-0131-5-0231]**

One (1) Peerless Model #G-LC-09-WUP natural gas-fired boiler, rated at 1.664 MMBtu/hr, located in Bldg. 1435. Installed on June 29, 1998.

**EU: A16 [MDE Reg. Nos. 021-0131-5-0239]**

One (1) H.B. Smith Co. Inc. Model 28A-7 natural gas-fired boiler, rated at 2.163 MMBtu/hr, located at Bldg. 1507. Installed on January 19, 2000.

**EU: A20-1 [MDE Reg. Nos. 021-0131-5-0346]**

One (1) PVI Industries Model 3000P natural gas fired boiler rated at 2.4 MMBtu/hr located in Bldg. 1507. Installed on June 2000.

**EU: A21 [MDE Reg. Nos. 021-0131-5-0292]**

One (1) Weil-McLain Model 1088 natural gas fired boiler rated at 2.887 MMBtu/hr, located in Bldg. 1529. Installed on January 2006.

**EU: A23 [MDE Reg. Nos. 021-0131-5-0323]**

One (1) Raypak Model # P-1223 natural gas fired boiler rated at 1.223 MMBtu/hr, located at Bldg 1507. Installed on August 20, 2004.

**EU: A24 and A25 [MDE Reg. Nos. 021-0131-5-0377 and 5-0378]**

Two (2) Bryan Model CLN-270-W natural gas fired boilers rated at 2.7 million Btu/hr, located at Bldg. 693. Installed on July 2008.

**EU: A26 and A27 [MDE Reg. Nos. 021-0131-5-0381 and 5-0382]**

Two (2) Weil-McLain Mdl 980 natural gas fired boilers rated at 1.23 million Btu/hr, located at Bldgs. 1545 and 1546. Installed on February 2007.

**EU: A28 [MDE Reg. Nos. 021-0131-5-0457]**

One (1) Fulton Model PHW-1400 natural gas-fired boiler rated at 1.4 million Btu/hr, located in Bldg. 1419. Installed on December 3, 2012.

**EU A0503, A0504, and A0505:** Three (3) natural gas-fired boilers, each rated at 1.6 MMBTU/hr, located Bldg 1430, and 1532, respectively. Installed on May 22, 2017 and February 3, 2017.

**EU A0506, and A0507:** Two (2) natural gas-fired boilers, each rated at 4.184 MMBTU/hr, located Bldg 267. Installed on August 27, 2018.

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**EU A0506, A0509, and A0510:** Three (3) natural gas-fired boilers, each rated at 3.348 MMBTU/hr, located Bldg 370. Installed on August 27, 2018.

**EU A0511, and A0512:** Two (2) natural gas-fired boilers, each rated at 1.674 MMBTU/hr, located Bldg 397. Installed on August 27, 2018.

**EU A0513:** One (1) natural gas-fired boiler, rated at 2.511 MMBTU/hr, located Bldg 516. Installed on August 27, 2018.

**EU A0514:** One (1) natural gas-fired boiler, rated at 1.0 MMBTU/hr, located Bldg 525. Installed on January 5, 2018.

**EU A0515 and A0516:** Two (2) natural gas-fired boilers, each rated at 2.6 MMBTU/hr, located Bldg 397. Installed on September 12, 2017.

**EU A0517:** One (1) natural gas-fired boiler, rated at 3.046 MMBTU/hr, located Bldg 1079. Installed on May 31, 2018.

**EU A0518 and A0519:** Two (2) natural gas-fired boilers, each rated at 3.0 MMBTU/hr, located Bldg 568. Installed September 12, 2017.

**EU A0520 and A0521:** Two (2) natural gas-fired boilers, each rated at 5.021 MMBTU/hr, located Bldg 1299. Installed February 21, 2019.

**EU A0522:** One (1) natural gas-fired boiler rated at 1.0 MMBTU/hr, located Bldg 1422. Installed September 12, 2017.

**EU A0523:** One (1) natural gas-fired boiler rated at 5.021 MMBTU/hr, located Bldg 1299. Installed February 21, 2019.

**EU A0524:** One (1) natural gas-fired boiler rated at 1.0 MMBTU/hr, located Bldg 1422. Installed September 12, 2017.

**EU A0525:** One (1) natural gas-fired boiler rated at 1.6 MMBTU/hr, located Bldg 1532. Installed February 3, 2017.

These boilers are located in various buildings throughout the installation, providing space heating and hot water. No control equipment is currently used on these units.

The Permittee was issued minor new source review construction permits and/or General Permits for Small Fuel Burning Equipment for Emission Units A15, A16, A20-1, A21, A23, A24 and A25, A26 and A27, and A28, which were installed on or about 06/98, 01/2000, 06/2000, 01/2006, 08/2004, 07/2008, 02/2007, and 12/2012, respectively. Additional boilers with the Emission Units A0503, A0504, A0505, A0506, A0507, A0506, A0509, and A0510, A0511, A0512, A0513, A0514, A0515, A0516, A0517, A0518, A0519, A0520, A0521, A0522, A0523, A0524, and A0525 were installed during the years 2017, 2018, and 2019. NSPS, 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, is not applicable since the individual heat input capacity is less than 10 million

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Btu/hr. These boilers are exempt from the area source NESHAP, 40 CFR 63, Subpart JJJJJJ since they combust only natural gas.

**APPLICABLE STANDARDS and LIMITATIONS**

**A. Control of Visible Emissions**

**[COMAR 26.11.06.02C(1)] – Visible Emission Standards.**

“In Areas I, II, V and VI, a person may not cause or permit the discharge of emissions from any installation or building, other than water in an uncombined form, which is greater than 20 percent opacity.”

**[COMAR 26.11.06.02A(2)] – Exception.**

“The visible emissions standards in C of this regulation do not apply to emissions during start-up and process modification 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 60 minute period.”

**Compliance Demonstration**

As part of the monitoring requirements, the Permittee shall properly operate and maintain the boilers in a manner to prevent visible emissions. **[Authority: COMAR 26.11.03.06C(3)]** As part of the recordkeeping requirements, the Permittee shall maintain an operations manual and preventive maintenance plan. The Permittee shall maintain a log of maintenance performed that relates to combustion performance. **[Authority: COMAR 26.11.03.06C(3)]** 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 Nitrogen Oxides**

**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 NO<sub>x</sub> 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

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- (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**

As part of the monitoring requirements, the Permittee shall develop and implement an operations and maintenance plan. **[Authority: COMAR 26.11.09.08F(1)]** As part of the recordkeeping requirements, the Permittee shall maintain: the operating and maintenance plan at the premises. **[Authority: COMAR 26.11.09.08F(1)(c)]**; records of training program attendance for each operator on site for at least 5 years. **[Authority: COMAR 26.11.09.08F(1)(e)]**; and records of fuel use which demonstrate that the boiler meets the definition of a space heater. **[Authority COMAR 26.11.09.08K(3) and COMAR 26.11.03.06C(3) ]** As part of the reporting requirements, the following requirements apply: the Permittee shall submit a list of trained operators and training program attendance to the Department upon request. **[Authority: COMAR 26.11.09.08E(5)]** Also, the Permittee shall inform the Department no later than 60 days after the date when the boilers no longer qualify as a space heater, and shall meet the requirements under COMAR 26.11.09.08E or identify an alternative NOx RACT requirement under COMAR 26.11.09.08 with which the source will comply. **[Authority: COMAR 26.11.09.08F(2)]**

**C. Operational Limitations**

The Permittee shall burn only natural gas unless the Permittee applies for and receives an approval or permit from the Department to burn an alternative fuel. **[Authority: COMAR 26.11.02.09A]**

**Compliance Demonstration**

As part of the recordkeeping requirements, the Permittee shall maintain a record of the quantity each type of fuel burned. **[Authority: COMAR 26.11.02.19C(1)(c)]** The Permittee shall submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. **[Authority: COMAR 26.11.02.19C(2)]**

**Emission Unit – Medical and Infections Waste Incinerators (HMIWI) - EU B5 and B6**

**EU: B5 and B6 [MDE Reg. Nos. 021-0131-2-0066 and 2-0067]**

Two (2) hospital, medical, and infectious waste incinerators (HMIWI), each rated at 1,000 lb/hr, each with a rotary atomizing scrubber, a pre-particulate filter, an activated carbon adsorption module, and a post-particulate filter, for PM, metals, dioxins/furans, and acid gas emissions control, and a waste heat recovery boiler. Installed June 1995

**Compliance History**

The two (2) HMIWI are dual-burn incinerators with a primary and secondary chamber. These incinerators use as auxiliary fuel natural gas, with No. 2 fuel oil for backup, and are equipped

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with rotary atomizing (wet) scrubbers and cyclonic separators for air pollution control. Each incinerator has a primary stack and they both share a dump stack which will be used when the primary stacks are not operational or in the case of an emergency situation. The rotary atomizing scrubber, manufactured by Emcotek, Inc., is an emission control device that uses a water spray from a high velocity rotor (rotating at several hundred feet per second) to effect particulate and acid gas emissions control. The current drawn by the rotor motor is continuously monitored and is regarded as an operating parameter equivalent to pressure drop across a venturi scrubber.

The Permittee was issued a minor new source review construction permit on June 6, 1995 for the incinerators and the facility commenced construction prior to June 20, 1996, the effective date of the New Source Performance Standard (NSPS) 40 CFR, Part 60, Subpart Ec. The units are however subject to the Emission Guidelines (EG) 40 CFR, Part 60, Subpart Ce. The Emission Guidelines formed the basis of State regulation COMAR 26.11.08.08-1 and the 111(d)/129 plan for existing HMIWIs for which construction was commenced on or before June 20, 1996. The standards became final on September 15, 1997. Maryland's 111(d)/129 plan revision was submitted for approval to EPA on April 14, 2000. Maryland Regulation COMAR 26.11.08.08-1 became federally enforceable on October 20, 2000, the effective date of the 111(d)/129 plan approval by EPA.

The Emission Guidelines were revised on October 6, 2009 to include significantly more stringent standards. The Department incorporated these standards in a revised COMAR 26.11.08.08-1 and adopted new COMAR 26.11.08.08-2, but these revisions have not as yet been approved by EPA for incorporation into the 111(d)/129 plan. On May 13 2013 and on September 6, 2013, the EPA amended the Federal Plan 40 CFR, Part 62, Subpart HHH for HMIWI to include the new standards and monitoring requirements. Consequently, the standards are currently federally enforceable. The final compliance date for these emission standards was October 6, 2014.

*Results of Initial Compliance Testing and Required Subsequent Testing for the September 15, 1997 Standards.*

In keeping with the initial testing requirements described under COMAR 26.11.08.08-1A(4), Fort Detrick conducted stack testing on August 12-25, 2000, March 12-20, 2001, August 20-22, 2001, and August 12-16, 2002 to determine compliance with the medical waste regulations.

During the stack tests conducted in August 2003, the feed rate, pH, flue gas exit temperature, pressure drop across the wet scrubber, flow rate through the scrubber and secondary chamber temperature were continuously monitored and recorded to establish the parametric minimums and maximums. The parametric limits, based on the stack testing, were determined to be as follows:

Incinerator B5

- (a) charge rate - 1000 lbs per hour (maximum);
- (b) exit flue gas temperature - 105° F (maximum);
- (c) secondary chamber temperature - 1708° F (minimum);
- (d) scrubber amps - 53.9 (minimum)
- (e) flow rate through the scrubber - 19.4 gpm (minimum); and

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(f) pH - 6.6 (minimum).

**Incinerator B6**

- (a) charge rate - 1000 lbs per hour (maximum);
- (b) exit flue gas temperature - 100° F (maximum);
- (c) secondary chamber temperature - 1677° F (minimum);
- (d) scrubber amps - 53.7(minimum);
- (e) flow rate through the scrubber - 19.4 gpm (minimum); and
- (f) pH - 6.6 (minimum).

All parametric limits were determined based on the minimum or maximum three-hour rolling averages documented during the performance (stack) tests. These parametric limits can be revised as a result of subsequent performance testing required to be conducted during the term of the Part 70 permit.

In keeping with the annual testing requirements, the Permittee has demonstrated annual compliance with opacity limits, has demonstrated annual compliance with PM, CO and HCl limits in August 2001, 2002, 2003, and, as required by 40 CFR 60, Subpart Ce, demonstrated once every 3 years thereafter, in 2006, 2009, and 2012. Additionally, in August 2006, the Permittee repeated the initial emissions stack test at the request of the Department. The testing verified compliance for the following limits: PM, opacity, CO, dioxins/furans, HCl, Pb, Cd, and Hg.

The Permittee has established and is currently maintaining compliance with required operating parameter limits and all operating parameters. Additionally, to comply with State-only enforceable Air Toxics regulations, the Permittee has installed, calibrates, maintains, and operates a CEMS that monitors CO and O<sub>2</sub>.

*Results of Testing - Comparison with the October 6, 2009 Standards.* Fort Detrick's test results, with dioxins/furans corrected as reported by the Corp of Engineers' memo dated November 14, 2013, are:

Pollutant	Units	09/15 /1997 Standard	10/06 /2009 Standard	Incinerator B5		Incinerator B6	
				2012	2009 or 2006	2012	2009 or 2006
Stack test year =				2012	2009 or 2006	2012	2009 or 2006
PM	mg/dscm	34	25	27.5	25.1	26.9	24.0
CO	ppm(v)	40	11	< 1	0	< 1	0
Dioxins/furans (total)	ng/dscm	125	9.3	30.0	44.1	45.6	29.8
Dioxins/furans (TEQ)	ng/dscm	2.3	0.054	0.368	0.518	0.550	0.856
HCl	ppm(v)	100	6.6	0.733	0.6	1.2	0.4
SO <sub>2</sub>	ppm(v)	55	9.0	< 1	1.0	< 1	0.7
NOx	ppm(v)	250	140	61	136	76.3	85
Lead (Pb)	mg/dscm	1.2	0.036	0.12	0.080	0.17	0.047

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Pollutant	Units	09/15	10/06	Incinerator B5		Incinerator B6	
		/1997 Standard	/2009 Standard				
Cadmium (Cd)	mg/dscm	0.16	0.0092	0.022	0.003	0.024	0.004
Mercury (Hg)	mg/dscm	0.55	0.018	0.00133	0.001	0.0037	0.001

The Permittee's testing determined that additional control equipment was needed to achieve compliance with the October 6, 2009 standards for PM, dioxin/furans, lead (Pb), and cadmium (Cd). The facility was required to submit a Plan for Compliance with the standards to the Department and the EPA. The Permittee submitted an initial Plan for Compliance in December 2012. Previously, the only add-on control device used to control these pollutants was the rotary atomizing scrubber described above. Fort Detrick submitted a Permit to Construct (PTC) application, initially on October 23, 2013 (revised on March 18, 2014) for additional add-on control devices to upgrade the HMIWIs in order to achieve compliance with the revised standards. PTC 021-0131-2-0066 and 2-0067 M was issued by the Department on May 1, 2014. The additional control devices to be used consist of a pre-particulate filter, an activated carbon adsorption system and a post-particulate filter as described below. The final compliance date was October 6, 2014, by which all equipment was required to be in place and operational. The installation of this equipment was virtually complete by July 19, 2014. The deadline for completing the initial performance tests is April 4, 2015. The initial report of the performance test results demonstrating final compliance must be submitted to the Department no later than May 19, 2015.

Pre-filter - A filter utilizing fiber particulate filters similar in design and function to a HVAC grade filter, is located before the activated carbon adsorption system and consists up to two (2) sections of 2" thick MERV-8 pleated filters or better, or tested filters used during the most recent performance tests for PM, dioxins/furans, BP, Cd, or Hg.

Carbon adsorption system - The Permittee is required to maintain a fixed bed activated carbon adsorption system totaling at least 3,800 pounds of activated carbon in each unit, and replace the entire amount of carbon with fresh carbon at intervals not to exceed 13 months, unless the Permittee can demonstrate to the satisfaction of the Department that a lesser replacement rate or a lesser amount of activated carbon will not lead to a violation of the emission standard for either dioxins/furans or mercury. **[Reference: condition D(5), Permit to Construct 021-0131-2-0066 and -0067 M was issued by the Department on May 1, 2014]**

Post-filter - a filter utilizing fiber particulate filters similar in design and function to a HVAC grade filter located after the activated carbon adsorption system and consists of two sections. The first section is a MERV-8 filter or better, or tested filters used during the most recent performance tests for PM, dioxins/furans, Pb, Cd, or Hg, for intercepting large diameter particles followed by a filter of MERV-12, or equivalent or better as determined during the most recent performance tests for PM, dioxins/furans, Pb, Cd, or Hg, for intercepting small diameter particles down to 1.0 micron in size or smaller.

§62.14453(b)(2) of Subpart HHH and §60.56c(j) and §60.57c(d) of subpart Ec require that "If you are using an air pollution control device other than a dry scrubber followed by an FF, a wet scrubber, a dry scrubber followed by an FF and a wet scrubber, or a SNCR system to comply with the emissions limits under §62.14411, you must petition the EPA Administrator for

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site-specific operating parameters to be established during the initial performance test and you must continuously monitor those parameters thereafter. You may not conduct the initial performance test until the EPA Administrator has approved the petition.”

40 CFR §60.57c(d) provides that, “The owner or operator of an affected facility using an air pollution control device other than a dry scrubber followed by a fabric filter, a wet scrubber, a dry scrubber followed by a fabric filter and a wet scrubber, or selective non-catalytic reduction technology to comply with the emissions limits under §60.52c shall install, calibrate (to manufacturers' specifications), maintain, and operate the equipment necessary to monitor the site-specific operating parameters developed pursuant to §60.56c(j).”

The use of the alternative control technology and alternative site-specific operating parameters was approved via letter from Ms. Diana Esher, Director, Air Protection Division, USEPA Region III, dated April 22, 2014.

*Recent Compliance History*

During the earlier part of current permitting period, Permittee partially operated these units. However, these units were shut down in April of 2018. Emissions Unit B5 did not operate in 2018, except for stack testing in March of 2018. Emissions Unit B6 operated 58 days in 2018, but did not operate after April 5, 2018. Neither of the emission units (B5 & B6) operated in 2019. The Permittee has stated that there are no future plans to bring these units back into full operation.

Stack testing was performed on both emission units on different dates. The Permittee performed the most recent stack test on EU-B5, between August 15 and 19, 2016. This unit was found to be in compliance for all the tested pollutants: particulate matter, mercury, hydrogen chloride, carbon monoxide, and D/F. The Permittee performed the most recent stack test on EU-B6 between May 22 and 26, 2017. This unit was also found to be in compliance for all tested pollutants: particulate matter, mercury, hydrogen chloride, carbon monoxide, and D/F, including the new operating parameters.

**APPLICABLE STANDARDS and LIMITATIONS**

**A. Emission Standards and Requirements for HMIWIs Under 40 CFR 60 Subpart Ce as Revised October 6, 2009. – [COMAR 26.11.08.08-2]**

**Applicability and Emission Standards. – [COMAR 26.11.08.08-2A]**

The emission standards and requirements of §B(1)—(7) and §C(1)—(6) of this regulation apply to a person who owns or operates an HMIWI subject to 40 CFR 60, Subpart Ce, as revised, October 6, 2009.

**Emission Limits and Requirements for Small, Medium, and Large HMIWIs. – [COMAR 26.11.08.08-2B (1)]**

“A person who owns or operates a small, medium, or large HMIWI for which construction was commenced on or before June 20, 1996 or for which modification commenced on or before March 16, 1998 shall comply with the following emission limits.”

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The source is also subject to the stack opacity limits following emission standards for large HMIWIs as promulgated on October 6, 2009. **[Authority: 40 CFR 62, Subpart HHH, §62.14411 -12(a)]** 40 CFR 62, Subpart HHH, §62.14412(a) states: "Your HMIWI (regardless of size category) must not discharge into the atmosphere from the stack any gases that exhibit greater than 6 percent opacity (6-minute block average)." The emission limits, stack opacity, and visible emissions of this subpart apply at all times. **[Authority: 40 CFR 60, Subpart Ce, §60.56c(a) and 40 CFR 62, Subpart HHH, §62.14413]**

<b>Pollutant</b>	<b>Units (7 percent oxygen, dry basis)</b>	<b>09/15/1997 Emission Limits for Large HMIWI</b>	<b>10/06/2009* Emission Limits For Large HMIWI</b>
PM	milligrams per dry standard cubic meter (gr per dry standard gr/dscf)	34 (0.015)	25 (0.011)
Opacity	6 minute block average percent	10	6
CO	ppm by volume	40	11
Dioxins/furans	nanograms per dry standard cubic meter total dioxins/furans (gr per billion dscf) or nanograms per dry standard cubic meter TEQ (gr per billion dscm)	125 (55) or 2.3 (1.0)	9.3 (4.1) or 0.054 (0.024)
Hydrogen Chloride (HCl)	ppm by volume or percent reduction	100 or 93%	6.6
SO <sub>2</sub>	ppm by volume	55	9.0
NO <sub>x</sub>	ppm by volume	250	140
Lead	milligrams per dry standard cubic meter (gr per thousand dscf) or percent reduction	1.2 (0.52) or 70%	0.036 (0.016)
Cadmium	milligrams per dry standard cubic meter (gr per thousand dscf) or percent reduction	0.16 (0.07) or 65%	0.0092 (0.0040)
Mercury	milligrams per dry standard cubic meter (gr per thousand dscf) or percent reduction	0.55 (0.24) or 85%	0.018 (0.0079)

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\*On October 6, 2009, revised Emission Guidelines for existing HMIWI were promulgated as a final rule in the Federal Register and are applicable to large HMIWI constructed before June 20, 1996.

**Compliance Demonstration**

**Testing Requirements**

Permit condition **4.3.3 A(1)** requires the Permittee to demonstrate initial compliance with the October 6, 2009 emission limits for each of the pollutants referenced above. The Permittee must conduct initial performance (stack) tests on each incinerator train using the applicable test methods and procedures specified in paragraphs §60.56c(b)(1) through (14) of Subpart Ec. The initial performance tests must be conducted no later than 180 days after the final compliance date, October 6, 2014. **[Authority: 40 CFR 62, Subpart HHH, §62.14451(a) and §62.14452(r); COMAR 26.11.08.08-2B(4), which references §60.56c; §60.56c(b) and (c)]**

Permit condition **4.3.3 A(2)** allows the Permittee to use the results of previous emissions tests to demonstrate initial compliance with the emission limits for those pollutants for which compliance the October 6, 2009 emission limits has already been demonstrated, i.e., opacity, CO, SO<sub>2</sub>, and NO<sub>x</sub>. **[Authority: 40 CFR 62, Subpart HHH, §62.14451(a) and (e)]**

Permit condition **4.3.3 A(3)(a)** requires the Permittee to submit a test protocol to the Department for approval at least 30 days prior to conducting any compliance stack test and to submit a copy of the results of compliance stack tests to the Department within 45 days after the date the test is completed. **[Authority: condition E(4), Permit to Construct 021-0131-2-0066 & 0067 M issued on May 1, 2014]**

Permit conditions **4.3.3 A(3)(b)** through (f) address performance test conduct and data reduction requirements of the Federal rules §60.56c(b) of Subpart Ec and §62.14452 of subpart HHH.

Permit condition **4.3.3 A(4)**, in keeping with §60.56c(c)(2) and §62.14451(b), requires the Permittee to determine compliance with the emission limits for PM, CO, and HCl by conducting an annual performance test (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in §60.56c(b)(1) –(14). Exceptions are allowed if CEMS are used to determine compliance and if three successive annual tests for a pollutant indicate compliance. However, at a minimum the Permittee must conduct a performance test for PM, CO, and HCl every third year. **[Authority: 40 CFR 62, Subpart HHH, §62.14451(a), (b), and §62.14452; COMAR 26.11.08.08-2B(4), which references 40 CFR §60.56c; §60.56c(c)(2)]**

Permit condition **4.3.3 A(5)** requires the Permittee to perform annual performance stack tests for dioxins/furans and mercury in accordance with the following timing requirements: **[Authority: PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**

- (a) The annual performance test must be performed no later than 12 months after the previous stack test,

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- (b) The annual performance test shall be performed prior to the replacement of the activated carbon in the adsorption system.
- (c) Condition **4.3.3 A(5)(a)** may be waived by the Department if the replacement of activated carbon is deferred beyond the 13 month period in accordance with condition D(5), PTC 021-0131-2-0066 and -0067 issued on May 1, 2014.
- (d) Within 48 hours before each dioxins/furans and mercury performance test, verify the amount [volume or weight (cubic feet, pounds)] of activated carbon

During all performance tests to determine compliance with the emission limits, the Federal rules require the Permittee to establish surrogate parameter limits appropriate to each pollutant and emission limit depending on the types of control devices used. These parameters must be monitored during routine operation to assure that they do not exceed the parameter limits established during the most recent performance test conducted by the facility for that emission unit.

Permit condition **4.3.3 A(6)** requires the Permittee to establish during the initial and any subsequent performance tests the following set of alternative site-specific operating parameters approved by the Department and EPA in accordance with 40 CFR §60.56c(j) of Subpart Ec or §62.14453(b) of Subpart HHH.

- (a) Maximum charge rate
- (b) Minimum secondary chamber temperature
- (c) Minimum rotary atomizing scrubber amperage
- (d) Minimum rotary atomizing scrubber pH
- (e) Maximum rotary atomizing scrubber temperature
- (f) Maximum carbon adsorption system inlet temperature
- (g) Maximum post-filter differential pressure

The parameters **4.3.3 A(6)(a)** through **(d)** are from §60.56c(f) of Subpart Ec and are retained with additional parameters **(e)** – **(g)** added addressing the additional control devices, ( i.e., the three fiber particulate filters and the carbon adsorption unit). Prior to the modifications necessary to comply with the October 6, 2009 standards, the parametric monitoring criteria cited by §60.56c(f) for a wet scrubber only was applicable.

The definitions for the parameters **(a)** – **(d)** mentioned above are virtually the same as those found in **§60.51c** of Subpart **Ec** and are the same as those used in the Title V permit issued in 2009. The definitions for the additional parameters **(e)** – **(g)** are from the Permit to Construct issued May 1, 2014, and were approved by EPA.

- (e) Maximum rotary atomizing scrubber temperature – for the purposes of this permit, means 17 °C (30.6 °F) more than the lowest 3-hour average flue gas temperature at the outlet from the rotary atomizing scrubber prior to entering the steam coil re-heating unit (T1) (taken, at a minimum, once every minute) measured during the most recent performance tests demonstrating compliance with the dioxin/furans (D/F) and mercury (Hg) emission limits.

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- (f) Maximum carbon adsorption system inlet temperature – means 17 °C (30.6 °F) more than the lowest 3-hour average flue gas temperature (taken, at a minimum, once every minute), at the inlet to the carbon adsorption system at a position after the steam coil re-heating unit but before the particulate pre-filter (T2), measured during the most recent performance test demonstrating compliance with the dioxin/furan (D/F) and mercury (Hg) emissions limit, whichever is lower.
- (g) Maximum post-filter differential pressure – The greater differential pressure across the MERV-12 or better second section of the post-filter determined during the most recent performance tests demonstrating compliance with the emission limitations for dioxins/furans, particulate matter, lead, cadmium, and mercury as determined by consideration of the following: (a) 0.5 inch of water column (WC) more than the highest 3-hour average differential pressure (inches WC) measured during the performance tests or (b) 110 percent of the highest 3-hour average differential pressure (inches WC) determined during the performance tests.

Post-filter means – a filter utilizing fiber particulate filters similar in design and function to a HVAC grade filter located after the activated carbon adsorption system and consists of two sections. The first section is a MERV-8 filter or better, or tested filters used during the most recent performance tests for PM, dioxins/furans, Pb, Cd, or Hg, for intercepting large diameter particles followed by a filter of MERV-12, or equivalent or better as determined during the most recent performance tests for PM, dioxins/furans, Pb, Cd, or Hg, for intercepting small diameter particles down to 1.0 micron in size or smaller.

Definitions (e) and (f) serve the same function and closely follow the definitions from **§60.51c** of Subpart **Ec** for *Maximum fabric filter inlet temperature* and *Maximum flue gas temperature*:

*Maximum flue gas temperature* means 110 percent of the lowest 3-hour average temperature at the outlet from the wet scrubber (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the mercury (Hg) emission limit.

*Maximum fabric filter inlet temperature* means 110 percent of the lowest 3-hour average temperature at the inlet to the fabric filter (taken, at a minimum, once every minute) measured during the most recent performance test demonstrating compliance with the dioxin/furan emission limit.

Monitoring Requirements

Permit condition **4.3.4 A**, requires that the Permittee comply with the monitoring requirements under 40 CFR §60.57c, Subpart Ec, subject to **4.3.4 A(1)** and **4.3.4 A(2)** [**Authority: §62.14453 and §62.14454 of subpart HHH; COMAR 26.11.08.08-2B(5)**]:

Permit condition **4.3.4 A(1)** Exemptions. A person may elect to use the exemptions listed under 40 CFR §§ 60.56c(c)5(ii) through (v), (c)6), (c)7), (e)6) through (10), (f)7) through (10), (g)6) through (10) and (h) for HMIWI units subject to .08-2B(1). [**Authority: COMAR 26.11.08.08-2B(5(a))**]

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Permit condition **4.3.4 A(2)** allows a CO CEMS as alternative compliance option. COMAR 26.11.08.08-2B(5)(b) provides that, "... A person may elect to use CO CEMS as specified under 40 CFR §60.56c(c)(4) ..." §62.14452(o) of Subpart HHH also provides that, if the Permittee is using a CEMS to demonstrate compliance with any of the emissions limits under §§62.14411 or 62.14412, the Permittee:

- (a) Must determine compliance with the appropriate emissions limit(s) using a 12-hour rolling average, calculated as specified in section 12.4.1 of EPA Reference Method 19 of 40 CFR part 60, appendix A-7. Performance tests using EPA Reference Methods are not required for pollutants monitored with CEMS. **[Reference: §62.14452(o)(1)]**<sup>1</sup>
- (b) Must operate a CEMS to measure oxygen concentration, adjusting pollutant concentrations to 7 percent oxygen as specified in §60.56c(b)(5) or §62.14452(e). **[Reference: §62.14452(o)(2)]**
- (c) Must operate all CEMS in accordance with the applicable procedures under appendices B and F of 40 CFR 60. **[Reference: §62.14452(o)(3)]**
- (d) May substitute use of a CO CEMS for the CO annual performance test and minimum secondary chamber temperature to demonstrate compliance with the CO emissions limit. **[Reference: §62.14452(o)(4)]**

Although CO and O<sub>2</sub> CEMS are installed, they are not currently required for compliance with the Federally enforceable emission limit for CO. The CO CEMS was originally a Permit to Construct requirement to determine compliance with a State-only enforceable emission limit of 100 ppmv arising out of State Air Toxics regulation COMAR 26.11.15.05. For Fort Detrick's HMIWI, use of a CEMS for CO compliance with the Federal rule (in lieu of the required annual CO stack test) is optional if the CEMS are able to meet appendices B and F requirements for the October 6, 2009 CO standard.

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<sup>1</sup>Note that the two Federal rules are currently in conflict with respect to CEM averaging time. The Federal Plan, 40 CFR part 62, subpart HHH, specifies a 12-hour rolling average, while the Emission Guidelines specifies 40 CFR part 60, subpart Ce specifies a 24-hour block average. Regulation COMAR 26.11.08.08-2B(5)(b) is in agreement the Emission Guideline requirements 40 CFR part 60, subpart Ce, both of which cite §60.56c(c)(4):

**§60.37e(a)(2)** of Subpart Ce: "... . Source subject to the emission limits 60.33e(a) and (a)(3) may, however, elect to use CO CEMS as specified under **§60.56c(c)(4)**..."

and §60.56c(c)(4) specifies a 24-hour block average.

In the case of CO, for example, the same standard, 11 ppmv adjusted to 7% O<sub>2</sub>, applies to both new large HMIWI and those constructed prior to June 20, 1996. But the Federal Plan requires compliance with a 12-hour rolling average, while the New Source Performance Standard allows a 24-hour block average. Consequently, existing HMIWI, e.g., constructed prior to 1996 are subject to a more stringent standard than new HMIWI. This is certainly inconsistent and should be corrected one way or the other.

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Permit condition **4.3.4 A(4)** requires the Permittee obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data must be obtained for 75 percent of the operating hours per day and for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital waste and/or medical/infectious waste. **[Authority: 40 CFR §62.14454(d) and 40 CFR §60.57c(e)]**

Permit condition **4.3.4 A(5)** requires the Permittee to comply with the requirement to monitor the bypass stack by using the following alternative methodology, which the Department deems as an acceptable alternative to continuously recording the status of the bypass stack: **[Authority: 40 CFR §62.14454(b) and §60.57c(c)]**

- (a) The bypass stack must be equipped with guillotine dampers to prevent exhaust gases from leaking out through the bypass stack. **[Authority: conditions C(6), Permits to Construct 10-2-0066 & 0067 N issued on June 6, 1995]**
- (b) The incinerator is equipped with an interlock to the waste feed system to prevent the loading of additional waste to the incinerator whenever the flue gases are diverted to the bypass stack. The bypass stack guillotine dampers are required to be equipped with limit switches to detect when the dampers are open. The incinerator is required to be equipped with an interlock device that will halt the ram feeders if the dampers are open.” **[Authority: C(7), Permits to Construct 10-2-0066 & 0067 N issued on June 6, 1995]**
- (c) The incinerator is equipped with an audible alarm that sounds and a control panel indicator that displays a notification to the operator whenever the bypass stack is in use.
- (d) The operator is required to record in the daily operator log any use of the bypass stack including date, time, and duration.

Permit condition **4.3.4 A(6)** requires the Permittee to continuously monitor and maintain the specified averages for the following operating parameters, 1-hour average and a 3-hour moving average, computed once each hour. The limits apply at all times except as noted in condition **4.3.4 A(7)** below: **[Authority: condition E(6), PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

- (a) Limit the 3-hour average HMIWI unit charge rate to no more than the maximum charge rate (110 percent of the lowest 3-hour average charge rate measured during the most recent performance tests demonstrating compliance with all applicable emission limits).
- (b) Maintain the 3-hour average rotary atomizing (collision) scrubber flow rate (GPM) and amperage at least at 90 percent of the highest level established during the most recent performance tests for all applicable emission limits.
- (c) Maintain the 3-hour average rotary atomizing scrubber pH at least at 90 percent of the highest level established during the most recent performance test demonstrating compliance with the HCl emission limit.
- (d) Maintain the 3-hour average secondary chamber temperature at least at 90 percent of highest secondary chamber temperature established during the most recent performance

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test demonstrating compliance with the PM, CO, dioxin/furan, and NOx emissions limits.  
**[Reference: 40 CFR §60.51c]**

- (e) Continuously limit the carbon filter outlet temperature (T3) at least 15 °F or more than the rotary atomizing scrubber outlet temperature (T1) to prevent condensation.
- (f) The carbon filter outlet temperature (T3) shall not exceed 80 °C.<sup>2</sup>
- (g) Limit the 3-hour average activated carbon adsorption system inlet temperature (T2), to no more than 17 °C (30.6 °F) more than the lowest 3-hour average flue gas temperature (taken, at a minimum, once every minute), at the inlet to the carbon adsorption system at a position after the steam coil re-heating unit but before the particulate pre-filter, measured during the most recent performance test demonstrating compliance with the dioxin/furan (D/F) and mercury (Hg) emissions limit.
- (h) Limit the 3-hour average differential pressure across the post-filter second section, rated at MERV 12, or equivalent or better, as determined during the performance tests, to no more than 0.5 inch WC greater than the highest level established during the most recent performance tests for dioxins/furans, PM, lead, cadmium, and mercury, or if this quantity is larger, 110 percent of the highest level established during the most recent performance tests for dioxins/furans, PM, lead, cadmium, and mercury.
- (i) Record the pre-filter and post-filter specifications (Make, Model No., and MERV rating), at every replacement period to demonstrate the operational use of replacement filters consistent with, or better than, those filters used during the most recent performance tests for PM, Pb, D/F Hg, and Cd.
- (j) Limit the 3-hour average differential pressure drop across the activated carbon adsorption unit to less than 7.2 inches WC.

Permit condition **4.3.4 A(7)** provides that the operating parameter limits stated in paragraphs **4.3.4 A(6)(a)** through (d), (f), and (g) above do not apply during performance tests conducted to reestablish the operating parameter limits. **[Reference: 40 CFR §60.56c(d)(2)]** The operating parameter limits stated in paragraphs **4.3.4 A(6)(d)** and (e) do not apply during startup, prior to the loading of the first charge to the HMIWI unit. **[Authority: condition E(7), PTC 021-0131-2-0066 and -0067 M issued on May 1, 2014]**

Permit condition **4.3.4 A(8)** requires the Permittee to maintain a fixed bed activated carbon adsorption system totaling at least 3,800 pounds of activated carbon in each unit, and replace the entire amount of carbon with fresh carbon at intervals not to exceed 13 months, unless the Permittee can demonstrate to the satisfaction of the Department that a lesser replacement rate or a lesser amount of activated carbon will not lead to a violation of the emission standard for either dioxins/furans or mercury. **[Authority: condition D(5), PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

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<sup>2</sup> Page3, letter from Robert P. Craig, Chief, Environmental Management Office, U.S. Army Garrison at Fort Detrick, MD to Ms. Diana Esher, Director, Air Protection Division, U.S. EPA Region III, dated March 24, 2014, "Petition for Site-Specific Operating Parameters for Hospital/Medical/Infectious Waste Incinerators."

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Permit condition 4.3.4 A(9) requires the Permittee to change the particulate pre-filter sections to the carbon adsorption unit each operating day, unless the pressure drop across the pre-filter section is less than 1.0 inch WC at the end of the operating day. **[Authority: condition D(6), PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

Permit condition 4.3.4 A(10) requires the Permittee to change the, MERV-8, or equivalent or better, first section to the post-filter each operating day, unless the pressure drop across that section is less than 1.0 inch WC at the end of the operating day. **[Authority: condition D(7), PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

Permit condition 4.3.4 A(11) requires the Permittee to change the MERV-12, or equivalent or better, second section of the post-filter when the pressure drop across that section cannot be maintained less than the following: (a) 0.5 inch WC more than the highest 3-hour average pressure differential established during the applicable performance tests, or if this quantity is larger, 110 percent of the highest 3-hour average pressure differential established during the applicable performance tests. **[Authority: condition D(8), PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

*Rationale:* permit conditions 4.3.4 A(9) – (11) assure that pressure drop will not become excessive due to particulate loading and lead to breaching of the particulate filter(s).

Permit condition 4.3.4 A(12) specifies the following surrogate indicators of compliance with emission limits for the HMIWI units: **[Authority: 40 CFR §60.56c(j); letter from Diana Esher, Director, Air Protection Division, USEPA Region III, dated April 22, 2014; page 17, PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

Operating Parameter Violation(s) on 3-hour rolling averaged values	Related Pollutant Emission Violation(s)
1. Operation above the <u>maximum charge rate</u> and simultaneously below the <u>minimum rotary atomizing scrubber amperage</u> [Ref: §60.56c(f)(1)]	PM emission limit.
2. Operation above the <u>maximum charge rate</u> and simultaneously below the <u>minimum secondary chamber temperature</u> [Ref: §60.56c(f)(2)].	CO emission limit.
3. Operation above the <u>maximum charge rate</u> , below the <u>minimum secondary chamber temperature</u> , and below the <u>minimum rotary atomizing scrubber liquor flow rate</u> <sup>3</sup> simultaneously [Ref: §60.56c(f)(3)]	Dioxin/furan emission limit.
4. Operation above the <u>maximum charge rate</u> , and below the <u>minimum rotary atomizing scrubber liquor pH</u>	HCl emission limit

<sup>3</sup>Note: Permit to Construct erroneously specified “rotary atomizing scrubber amperage” rather than “rotary atomizing scrubber liquor flow rate,” which was specified by the previous Title V permit as well as §60.56c(f)(3)

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simultaneously [Ref: §60.56c(f)(4)].	
5 . Operation above <u>the maximum charge rate</u> , the <u>maximum rotary atomizing scrubber outlet temperature</u> , and above the maximum activated carbon adsorption system inlet temperature simultaneously [Ref: §60.56c(e)(2) and §60.56c(f)(5)]	Dioxins/furans and mercury emission limits
6. Use of the bypass stack [Ref: §60.56c(f)(6)] .	PM, dioxin/furan, HCl, Pb, Cd, and Hg emission limits
7. Minimum 30 °F flue gas temperature rise across the steam reheat coil based on a 3-hour average of inlet versus outlet temperatures [i.e., $T_2 - T_1 \geq 30$ °F]	Dioxins/furans and mercury emission limits.
8. Operation above the maximum post-filter differential pressure (DP-4) [Ref: §60.56c(j)].	PM, dioxin/furan, Pb, and Cd, emission limits

Note: Operational parameter requirements No. 1 through No. 4 and No. 6 are from the existing Federal rule. Operational parameter requirements No. 5, No. 7, and No. 8 are new additions.

The applicable State regulations addressing reporting and recordkeeping requirements are:

COMAR 26.11.08.08-1A(7): Reporting and Recordkeeping Requirements. A person who owns and operates an HMIWI subject this regulation shall report and maintain records in accordance with the requirements listed in 40 CFR §60.58c(b), (c), (d), (e), and (f) of Subpart Ec, excluding 40 CFR §60.58c(b)(2)(ii) (fugitive emissions) and 40 CFR §60.58c(b)(7) (siting).

COMAR 26.11.08.08-2B(6): Reporting and Recordkeeping Requirements. A person who owns and operates an HMIWI subject to §B of this regulation shall report and maintain records in accordance with the requirements listed in 40 CFR §60.58c(b) through (g) of Subpart Ec, excluding 40 CFR §§60.58c(b)(2)(viii) and 40 CFR §60.58c(b)(2) (xvii), (b)(2)(xviii), and (b)(2)(xix).

Permit condition **4.3.5 A** requires the Permittee to maintain for at least five (5) years and to make them available to the Department upon request, records of the following information, as applicable. **[Authority: COMAR 26.11.08.08-2B(6), 40 CFR 60, Subpart Ec, §60.58c; and 40 CFR 62, Subpart HHH, §62.14460-62 condition F(1), PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

§60.58c(b)(1) Calendar date of each record;

§60.58c(b) (2) Records of the following data:

- (i) Concentrations of any pollutant listed in § 60.52c or measurements of opacity as determined by the continuous emission monitoring system (if applicable);

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(iii) HMIWI charge dates, times, and weights and hourly charge rates;

*Note: §60.58c(b)(2)(ii), (iv) – (viii), (x), (xii), (xviii) and (xix) and §60.58c(b)(7) do not apply to this facility.*

(ix) Secondary chamber temperatures recorded during each minute of operation;

(xi) Horsepower or amperage and recirculated flow rate (GPM) to the rotary atomizing (wet) scrubber during each minute of operation, as applicable;

(xiii) Temperature at the outlet from the rotary atomizing (wet) scrubber during each minute of operation

(xiv) pH at the inlet to the rotary atomizing (wet) scrubber during each minute of operation.

(xv) Records indicating use of the bypass stack, including dates, times, and durations, and

(xvi) For affected facilities complying with §60.56c(j) and §60.57c(d), the owner or operator shall maintain all operating parameter data collected. The following applies:

(xvi)-1 Temperature of the flue gas leaving the wet scrubber at a point prior to the inlet of the steam reheat coil (T1), recorded once each minute.

(xvi)-2 Temperature of the flue gas at a point leaving the steam re-heat coil and entering the activated carbon adsorption system (T2), recorded once each minute

(xvi)-3 Temperature of the flue gas leaving the activated carbon adsorption system at a point located after the particulate matter post-filter (T3), recorded once each minute.

(xvi)-4 Temperature rise across the reheat coil (T2 – T1), recorded once each minute.

(xvi)-5 Temperature rise across the add-on control system (T3 –T1), recorded once each minute.

(xvi)-6 Pressure drop across the activated carbon adsorption unit, in inches WC (DP-2), recorded at least at 5 minute intervals.

(xvi)-7 Pressure drop across each pre-filter section in inches WC (DP-1A and DP-1B), (if more than one section is installed) recorded at least at 5 minute intervals.

(xvi)-8 Pressure drop across the post-filter first section in inches WC, (DP-3) recorded at least at 5 minute intervals.

(xvi)-9 Pressure drop across the post-filter second section in inches WC, (DP-4) recorded at least at 5 minute intervals.

(xvi)-10 The pre-filter and post-filter specifications (Make, Model No., and MERV rating), shall be recorded at every replacement period to demonstrate the operational use of

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replacement filters consistent with, or better than, those filters used during the most recent performance tests for PM, Pb, D/F Hg, and Cd.

(xvi)-11 The activated carbon performance specifications (density, particle size, specific surface area (cm<sup>2</sup>/g) from each activated carbon vendor.

(xvi)-12 The amounts of activated carbon replaced, including the date and the hours of operation of the HMIWI unit since the previous replacement of carbon, including the vendor's performance specifications.

§60.58c(b)(3): Identification of calendar days for which data on emission rates or operating parameters specified under paragraph (b)(2) of §60.58c, have not been obtained, with an identification of the emission rates or operating parameters not measured, reasons for not obtaining the data, and a description of corrective actions taken.

§60.58c(b)(4): Identification of calendar days, times and duration of malfunctions, a description of the malfunction and the corrective action taken.

§60.58c(b)(5): Identification of calendar days for which data on emission rates or operating parameters specified under paragraph (b)(2) of §60.58c exceeded the applicable limits, with a description of the exceedances, reasons for such exceedances, and a description of corrective actions taken.

§60.58c(b)(6): The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and/or to establish operating parameters, as applicable, and a description, including sample calculations, of how the operating parameters were established or re-established, if applicable.

§60.58c(b)(7) *siting requirements documentation not required*

§60.58c(b)(11): Records of calibration of any monitoring devices as required under §60.57c (a), (b), and (c),

Permit condition **4.3.6 A** requires the Permittee to report to the Department and the EPA in accordance with the requirements listed in 40 CFR §60.58c(b) through (g), excluding 40 CFR §60.58c(b)(2)(viii) and 60.58c(b)(2)(xvii) and (b)(2)(xix). **[Authority: COMAR 26.11.08.08-2B(6); 40 CFR 62, Subpart HHH, §62.14463-65]**

Permit condition **4.3.6 A(1)**, in accordance with §60.58c(c), requires the Permittee to submit the information specified below no later than 60 days following the initial performance test. All reports must be signed by the facilities manager:<sup>4</sup>

- (a) The initial performance test data as recorded under § 60.56c(b)(1) through (14), as applicable;

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<sup>4</sup> **40 CFR §60.58c(c)** [**§62.14463(a)** and **§62.14464(a)**] The owner or operator of an affected facility shall submit the information specified in paragraphs (c)(1) through (c)(4) of this section no later than 60 days following the initial performance test. All reports shall be signed by the facilities manager.

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- (b) The values of the site specific operating parameters established pursuant to §60.56c(d), (h) or (j) as applicable.

*Note: For the September 15, 1997 standards §60.56c(d) is the applicable paragraph. For the October 6, 2009 standards, §60.56c(j) is the applicable paragraph. The Permittee complied with the initial testing reporting requirements for the September 15, 1997 standards.*

Permit condition **4.3.6 A(2)**, in accordance with §60.58c(d) – (e), requires the Permittee to submit semiannual reports no later than 60 days following the reporting period. The first semiannual reporting period ends 6 months following the submission of information in paragraph (c) of 40 CFR 60.58c. The semiannual report must include the information specified in paragraphs (d)(1) through (d)(9) and (d)(11) of 40 CFR 60.58c. Subsequent reports must be submitted no later than 6 calendar months following the previous report. All reports must be signed by the facilities manager. *Note: The Permittee is subject to permitting requirements under Title V and must submit the reports required by 40 CFR §60.58c(d) [or §62.14464(b)] semiannually.*<sup>5</sup>

- (a) The values for the site-specific operating parameters established pursuant to §60.56c(d), (h), or (j), as applicable. **[Reference: §60.58c(d)(1)]**
- (b) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded for the calendar year being reported, pursuant to § 60.56c(d), (h), or (j), as applicable. **[Reference: §60.58c(d)(2)]**
- (c) The highest maximum operating parameter and the lowest minimum operating parameter, as applicable, for each operating parameter recorded pursuant to § 60.56c(d), (h), or (j) for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period. **[Reference: §60.58c(d)(3)]**
- (d) Any information recorded under paragraphs (b)(3) through (b)(5) of 40 CFR 60.58c, for the calendar year being reported. **[Reference: §60.58c(d)(4)]**

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<sup>5</sup> **40 CFR §60.58c(d) [§62.14464(b)]** An annual report shall be submitted 1 year following the submissions of the information in paragraph (c) of this section and subsequent reports shall be submitted no more than 12 months following the previous report (*once the unit is subject to permitting requirements under title V of the Clean Air Act, the owner or operator of an affected facility must submit these reports semiannually*). The annual report shall include the information specified in paragraphs (d)(1) through (11) of this section. All reports shall be signed by the facilities manager.

**40 CFR §60.58c(e) [§62.14464(c)]** The owner or operator of an affected facility shall submit semiannual reports containing any information recorded under paragraphs (b)(3) through (b)(5) of this section no later than 60 days following the reporting period. The first semiannual reporting period ends 6 months following the submission of information in paragraph (c) of this section. Subsequent reports shall be submitted no later than 6 calendar months following the previous report. All reports shall be signed by the facilities manager.

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- (e) Any information recorded under paragraphs (b)(3) through (b)(5) of 40 CFR 60.58c, for the calendar year preceding the year being reported, in order to provide the Administrator with a summary of the performance of the affected facility over a 2-year period. **[Reference: §60.58c(d)(5)]**
- (f) If a performance test was conducted during the reporting period, the results of that test. **[Reference: §60.58c(d)(6)]**
- (g) If no exceedances or malfunctions were reported under paragraphs (b)(3) through (b)(5) of 40 CFR §60.58c, for the calendar year being reported, a statement that no exceedances occurred during the reporting period. **[Reference: §60.58c(d)(7)]**
- (h) Any use of the bypass stack, the duration, reason for malfunction, and corrective action taken. **[Reference: §60.58c(d)(8)]**
- (i) Concentrations of CO determined by a CO CEMS, if the Permittee elects to determine compliance with the CO emission limit using a CEMS. **[Reference: §60.58c(d)(11)]**

**B. Waste Management Plan. – [COMAR 26.11.08.08-2B(3)], [§62.14430 – 32]**

The Permittee shall prepare a Waste Management Plan that identifies the feasibility and the approach to solid waste segregation or material substitution to reduce the amount of toxics emissions. The Waste Management Plan shall meet the requirements of 40 CFR §60.55c, Subpart Ec. A revised Waste Management Plan shall be submitted to the Department within 60 days of completion of the required initial compliance tests under this regulation.

**Compliance Demonstration**

As part of the recordkeeping, the Permittee shall keep the waste management plan on-site and make it available authorized inspectors upon request. **[Authority: COMAR 26.11.03.06C(3)]**  
As part of the reporting requirements the Permittee shall submit a revised waste management plan as specified in §60.55c, signed by the facilities manager, no later than 60 days following the initial performance tests required under regulation COMAR 26.11.08.08-2. **[Authority: COMAR 26.11.08.08-2B(3) and 40 CFR §60.58c(c)(3)]**

**C. Initial and Annual Equipment and Control Device Inspection Requirements. – [COMAR 26.11.08.08-2D [§62.14440 – 43]**

- a. **COMAR 26.11.08.08-2D(1)-(3)** specifies the initial and subsequent annual inspection requirements that each HMIWI undergo beginning June 15, 2012 and that all necessary repairs be completed within 10 operating days unless otherwise approved by the Department. The inspections shall include as a minimum the following: **[Reference: §62.14442(a)]**

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- (a) Inspect all burners, pilot assemblies, and pilot sensing devices for proper operation and clean pilot flame sensor, as necessary;
  - (b) Ensure proper adjustment of primary and secondary chamber combustion air, and adjust as necessary;
  - (c) Inspect hinges and door latches, and lubricate as necessary;
  - (d) Inspect dampers, fans, and blowers for proper operation;
  - (e) Inspect HMIWI door and door gaskets for proper sealing;
  - (f) Inspect motors for proper operation;
  - (g) Inspect primary chamber refractory lining; clean and repair or replace lining as necessary;
  - (h) Inspect incinerator shell for corrosion or hot spots, or both;
  - (i) Inspect secondary/tertiary chamber and stack and clean as necessary;
  - (j) Inspect mechanical loader, including limit switches, for proper operation, if applicable;
  - (k) Visually inspect waste bed (grates), and repair or seal, as appropriate;
  - (l) For the burn cycle that follows the inspection, document that the incinerator is operating properly and make any necessary adjustments;
  - (m) Inspect air pollution control device or devices for proper operation, if applicable;
  - (n) Inspect waste heat boiler systems to ensure proper operation, if applicable;
  - (o) Inspect bypass stack components;
  - (p) Ensure proper calibration of thermocouples, sorbent feed systems and any other monitoring equipment;
  - (q) Include inspection elements according to manufacturer's recommendations **[Reference: §62.14442(a)(17)]**; and
  - (r) Generally observe that the equipment is maintained in good operating condition.
- b. **COMAR 26.11.08.08-2D(4)-(5)** specifies that beginning June 15, 2012, the control devices of an HMIWI shall undergo an initial and subsequent annual inspections that include the following: **[Reference: §62.14442(b)]**
- (a) Inspect air pollution control device(s) for proper operation;

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- (b) Ensure proper calibration of thermocouples, sorbent feed systems, and any other monitoring equipment;
- (c) Include inspection elements according to manufacturer's recommendations;  
**[Reference: §62.14442(b)(3)]**
- (d) Generally observe that the equipment is maintained in good operating condition; and
- (e) Within 10 operating days following an air pollution control device inspection, all necessary repairs shall be completed unless the owner or operator obtains written approval from the Department establishing a date whereby all necessary repairs of the designated facility shall be completed.

**Compliance Demonstration**

As part of the recordkeeping, the Permittee shall maintain for at least five (5) years and shall make available to the Department upon request, records of the following information:  
§60.58c(b)(1) Calendar date of each record;

§60.58c(b)(2)(xvii) Records of the annual air pollution control device inspections, any required maintenance and any repairs not completed within 10 days or the timeframe established by the EPA Administrator or the Department upon delegation of authority.

§62.14460(14) Records of the annual equipment inspections, any required maintenance and any repairs not completed within 10 days or the timeframe established by the EPA Administrator or the Department upon delegation of authority. **[Authority: COMAR 26.11.08.08-2B(6); 40 CFR 62, Subpart HHH, §62.14460-62; and condition F(1), PTC 021-0131-2-0066 and 2-0067 M issued on May 1, 2014]**

As part of the reporting requirements the Permittee shall include in the semiannual reports referenced in A(2) above records of the annual equipment and air pollution control device inspection, any required maintenance, and any repairs not completed within 10 days of an inspection or the timeframe established by the EPA Administrator or the Department.  
**[Authority: §60.58c(d)(9) and §62.14463(12) –(13)]**

**D. Operator Training Requirements. – [40 CFR Part 62, Subpart HHH, §62.14420- 21(a)]**

**§62.14420:** “You must have a fully trained and qualified operator, either at your facility or able to be at your facility within 1 hour. The trained and qualified HMIWI operator may operate the HMIWI directly or be the direct supervisor of one or more HMIWI operators.”

**§62.14421(a):** “The HMIWI operator can obtain training and qualification through a State-approved program or as provided in paragraph (b) of this section”

**Certification and Operation Requirement. – COMAR 26.11.08.09B**

“A person may not operate or allow an incinerator to be operated unless the owner certifies to the Department on a form provided by the Department that each incinerator operator:”

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- (1) has completed an initial training course approved by the Department which meets the requirements of section COMAR 26.11.08.09C or D of this regulation;
- (2) annually, after initial certification, completes a review course approved by the Department; and
- (3) that a properly trained incinerator operator is present at all times whenever the incinerator is in operation.

**Training Course for Operators of Special Medical Waste or Industrial Waste Incinerators. – COMAR 26.11.08.09C**

- (1) For any incinerator operator who operates a special medical waste or industrial waste incinerator, the training course shall be the “Hospital Incinerator Operator Training course” Volumes I—III (EPA-450/3-89-003, EPA-450/3-89-004, EPA-450/3-89-010, respectively), Control Technology Center, March 1989, which is incorporated by reference, and “Operation and Maintenance of Hospital Medical Waste Incinerators” (EPA-450/3-89-002), Control Technology Center, March 1989, which is incorporated by reference.
- (2) For the operator of any special medical waste or an industrial waste incinerator, completing a training course means:
  - (a) completing an initial training course approved by the Department of at least 3 days (24 hours) duration; and
  - (b) passing a written test approved by the Department.
- (3) The certified operator shall, after initial training, complete and pass an annual review course approved by the Department of at least 1 day (8 hours) duration.
- (4) For an HMIWI subject to the requirements of this chapter, a person is qualified to operate an HMIWI if the person passes the training course required in §C(2) and (3) of this regulation and complies with the requirements in 40 CFR §60.53c(d).

**Compliance Demonstration**

As part of the recordkeeping requirements, the Permittee shall keep the following records onsite for at least 5 years:

§60.58c(b)(1) Calendar date of each record;

§60.58c(b)(8) Records showing the names of HMIWI operators who have completed review of the information in §60.53c(h) as required by §60.53c(i), including the date of the initial review and all subsequent annual reviews.

§60.58c(b)(9) Records showing the names of the HMIWI operators who have completed the operator training requirements, including documentation of training and the dates of training;

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§60.58c(b)(10) Records showing the names of the HMIWI operators who have met the criteria under §60.53c and the dates of their qualification; and

The Permittee shall maintain documentation of training (operator training manual) on site and update the documentation annually at the time of the annual review course. The documentation shall be as specified in 40 CFR §60.53c(h). **[Authority: COMAR 26.11.08.09C(5)]**

As part of the reporting requirements, the Permittee shall include in the semiannual reports referenced in A(2) above records of the annual equipment and air pollution control device inspection, any required maintenance, and any repairs not completed within 10 days of an inspection or the timeframe established by the EPA Administrator or the Department. **[Authority: §60.58c(d)(9) and §62.14463(12) –(13)]**

**E. Inapplicable Requirements under 40 CFR 60, Subpart Ec or 40 CFR 62, Subpart HHH.**

The following requirements under 40 CFR §60.56c -§60.58c do not apply to the HMIWI emission units for the reasons indicated:

*40 CFR §60.56c(b)(12) ...determine compliance with the fugitive ash emission limit - Not applicable to existing sources falling under 40 CFR 60.32e(a).*

*40 CFR §60.56c(c)(3) For large HMIWI determine compliance with the visible emissions limits for fugitive emissions - Not applicable to existing sources falling under 40 CFR 60.32e(a)]*

*40 CFR §60.56c(e) Except as provided in paragraph (i) of this section, for affected facilities equipped with a dry scrubber followed by a fabric filter ... - Not applicable since the facility does not continuously inject dry sorbent to achieve compliance with the dioxins/furans, HCl, or Hg emission limits.*

*40 CFR §60.56c(f) Except as provided in paragraph (i) of this section, for affected facilities equipped with a wet scrubber: ... This paragraph is no longer applicable because the facility employs additional add-on control devices.*

*40 CFR §60.56c(g) Except as provided in paragraph (i) of this section, for affected facilities equipped with a dry scrubber followed by a fabric filter and a wet scrubber... . Not applicable since the facility does not continuously inject dry sorbent to achieve compliance with the dioxins/furans, HCl, or Hg emission limits*

The following monitoring requirements under 40 CFR §60.57c do not apply to these HMIWI installation for the reasons indicated:

*40 CFR §60.57c(a) "Except as provided in §60.56c(c)(4) through (c)(7), the owner or operator of an affected facility shall install, calibrate (to manufacturers' specifications), maintain, and operate devices (or establish methods) for monitoring the applicable maximum and minimum operating parameters listed in Table 3 to this subpart (unless CEMS are used as a substitute for certain parameters as specified) such that these devices (or methods) measure and record values for these operating parameters at the frequencies indicated in Table 3 of this subpart at*

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all times.” *The HMIWI units no longer fit any of the control device categories specified in Table 3 and do not fall under any of the exceptions provided in §60.56c(c)(4) through (c)(7).* ,

*40 CFR §60.57c(b)* “ The owner or operator of an affected facility ... that uses selective noncatalytic reduction technology shall install, calibrate (to manufacturers' specifications),... *Not applicable. The HMIWI units do not use selective reduction control technology to control NOx emissions*

*40 CFR §60.57c(h)* For affected facilities ... that ... determine compliance with the PM emissions limit using a bag leak detection system .... *Not applicable since the HMIWI units do not employ a bag leak detection system.*

The following recordkeeping requirements under 40 CFR §60.58c do not apply to these HMIWI units for the reasons indicated:

*40 CFR §60.58c(a)* is not applicable to existing sources falling under 40 CFR 60.32e(a).

*40 CFR §60.58c(b)(2)(ii), (v)-(vii), and (xii)* are not applicable for the reasons indicated below:

(ii) Results of fugitive emissions (by EPA Reference Method 22) - *Not applicable, since fugitive emissions observations are not required of installations qualifying as an existing source under 40 CFR 60.32e(a).*

(v) Amount and type of dioxin/furan sorbent used during each hour of operation, as applicable - *Although the Permittee does employ dry dioxin/furan sorbent (activated carbon) the sorbent is not continuously injected but consists of an activated carbon bed, which must be periodically replaced based on performance testing approved by the Department.*

(vi) Amount and type of Hg sorbent used during each hour of operation, as applicable - *Although the Permittee does employ dry Hg sorbent (activated carbon) the sorbent is not continuously injected but consists of an activated carbon bed, which must be periodically replaced based on performance testing approved by the Department.*

(vii) Amount and type of HCl sorbent used during each hour of operation, as applicable - *Not applicable since the Permittee does not employ a dry HCl sorbent.*

(xii) Pressure drop across the wet scrubber system during each minute of operation, as applicable - *Not applicable, since the Permittee records the wet scrubber horsepower or amperage and the pressure drop is not an appropriate parameter for this type of wet scrubber*

*40 CFR §60.58c(b)(7)* All documentation produced as a result of the siting requirements of §60.54c - *Not applicable, since the Permittee is not subject to the siting requirements.*

*40 CFR §60.58c(d) (10)* For affected facilities as defined in §60.50c(a)(3) and (4), records of each bag leak detection system alarm, the time of the alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective

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action taken, as applicable. .... *Not applicable since the HMIWI units do not employ a bag leak detection system.*

**EMISSION UNITS C1 and C2, C3 thru C6, C7 C8, C9, C10 and C13.**

The following emergency diesel generators

**EU: C1 and C2: [MDE Reg. No. 021-0131-9-0101 and 9-0102]**

Two (2) 993 kW diesel fuel oil-fired generators. Installed January 1985

**EU: C3 thru C6: [MDE Reg. No. 021-0131-9-0101 and 9-0148]**

Four (4) 2,000 kW diesel fuel oil-fired generators. Installed 1985

**EU: C7: [MDE Reg. No. 021-0131-9-0153]**

One (1) 900 kW diesel fuel oil-fired generator. Installed May 1996

**EU: C8: [MDE Reg. No. 021-0131-9-0155]**

One (1) 880 kW diesel fuel oil fired generator. Installed September 2000

**EU: C9: [MDE Reg. No. 021-0131-9-0202]**

One (1) 1,502 BHP (1000 kW) diesel fuel-fired generator. Installed September 2004

**EU: C10: [MDE Reg. No. 021-0131-9-0205]**

One (1) 2,876 BHP (2000 kW) diesel fuel oil fired generator. Installed September 2004

**EU: C13: [MDE Reg. No. 021-0131-9-0209]**

One (1) 685 BHP (511 kW) diesel fuel oil fired generator. Installed September 1988

There are eleven (11) diesel-fired emergency diesel generators, rated from 511 – 2,000 kW. These emergency generators provide backup power to key facilities and operations at Fort Detrick in the event of a power outage. No control equipment is currently used on these units. Emission units C1 and C2 were installed in January 1985 (after-the-fact registration applications were submitted in August 1997). Emission units C3 through C6 were registered after-the-fact in October 1991 and installed during the period April 1985 to September 1987. Emission unit C7 was installed in May 1996 (an after-the-fact Permit to Construct was issued on September 1, 2000). Emission unit C8 was installed in December 2001 (a permit to construct 10-9-0155 N was issued in February 2001). Permits to Construct 021-9-0202 N and 021-9-0205 N were issued for C9 and C10 in 2004. Emission unit C13 was installed in September 1988 and brought into the registration system with the change in regulation COMAR 26.11.02.10E adopted November 24, 2003 that lowered the registration threshold from 1000 to 500 brake horsepower.

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**APPLICABLE STANDARDS and LIMITATIONS**

**A. Visible Emissions Limitations**

**Visible Emission during Idle Mode. – [COMAR 26.11.09.05E(2)]**

“A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.”

**Visible Emission during Operating Mode. – [COMAR 26.11.09.05E(3)]**

“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.”

**Exceptions:**

COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system. 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. COMAR 26.11.09.05E(2) and E(3) do not apply while maintenance, repair, or testing is being performed by qualified mechanics. **[Authority: COMAR 26.11.09.05E(4)]**

**Compliance Demonstration**

These units are emergency generators that operate a few hours each year. No periodic monitoring will be required. The Permittee shall properly operate and maintain the engines in a manner to minimize visible emissions. **[Authority: COMAR 26.11.03.06C(3)]** However, the Permittee is required to report incidents of visible emissions in accordance with the requirements of Permit Condition 4, Section III of the permit, “Report of Excess Emissions and Deviations.”

**B. Control of Sulfur Oxides from Fuel Burning Equipment**

**[COMAR 26.11.09.07A(1)(c)]** – “A person may not burn, sell, or make available for sale any distillate fuel with a sulfur content by weight in excess of 0.3 percent.”

40 CFR 63, Subpart ZZZZ, §63.6604(b), beginning January 1, 2015 limits the diesel fuel sulfur content to 15 ppm maximum if an engine 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)

**§63.6640(f)(2)(ii):** Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

**§63.6640(f)(2)(iii):** Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

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**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 fuel oil. **[Authority: COMAR 26.11.03.06C(3)]** The Permittee shall maintain records of fuel supplier's certification and shall make records available to the Department upon request. **[Authority: COMAR 26.11.03.06C(3)]** The Permittee shall report fuel supplier certification to the Department upon request. **[Authority: COMAR 26.11.09.07C]**

**C. Control of Nitrogen Oxides**

**Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less. – [COMAR 26.11.09.08G(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:

- (1) Provide certification of the capacity factor of the equipment to the Department in writing;
- (2) 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;
- (3) 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;
- (4) 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
- (5) Maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request.

**NOTE:** COMAR 26.11.09.08B(5) states that; (a) for the purpose of COMAR 26.11.09.08, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation; and (b) that the operator training course sponsored by the Department shall include an in-house training course that is approved by the Department.

**Compliance Demonstration**

As part of the monitoring requirements, the Permittee shall: (1) monitor the hours of operation of each installation and perform a combustion analysis at least once each year for any installation that exceeds 500 hours per year of operation and optimize combustion based on the analysis **[Authority: COMAR 26.11.09.08J]**; (2) calculate the capacity factor of the engine at the end of each month and determine whether an engine's operations exceeded the 15 percent capacity factor on a rolling 12 month basis **[Authority: COMAR 26.11.03.06C(3)]**; and (3) the Permittee shall notify the Department not later than 60 days after the date when the fuel burning equipment no longer meets the 15 percent capacity limitation on a rolling 12 month basis and shall meet the applicable fuel-burning RACT requirement of COMAR 26.11.09.08 **[Authority: COMAR 26.11.03.06C(3)]**. As part of the record keeping requirements, the Permittee shall: (1)

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retain records of hours of operation on a monthly basis for all engines. At the end of each month, the Permittee shall calculate the total hours for the calendar year [Authority: **COMAR 26.11.03.06C(3)**]; (2) maintain the results of any combustion analysis (if required) at the site and make these results available to the Department and the EPA upon request [Authority: **COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C(3)**]; (3) retain records of training program attendance for each operator at the site and make these records available to the Department upon request [Authority: **COMAR 26.11.09.08G(1)(e) and COMAR 26.11.03.06C(3)**]; and (4) records of the calculated monthly capacity factors [Authority: **COMAR 26.11.03.06C**]. As part of the reporting requirements, the Permittee shall: (1) submit a list of operator training attendance to the Department upon request [Authority: **COMAR 26.11.09.08E(5)**]; (2) submit the results of combustion analysis to the Department upon request whenever the engine operates more than 500 hours in a calendar year [Authority: **COMAR 26.11.09.08G(1)(c)**]; and (3) submit a certification of the annual capacity factor for the engine with the annual emissions certification report [Authority: **COMAR 26.11.09.08G(1)(a) and COMAR 26.11.03.06C(3)**].

**D. Operational Limitations**

The following apply:

- (1) The Permittee shall combust only No. 2 diesel fuel oil unless the Permittee applies for and receives an approval or permit from the Department to burn alternative fuels [Authority: COMAR 26.11.02.09A].
- (2) 40 CFR 63, Subpart ZZZZ, §63.6603, Table 2d; §63.6604(b); §63.6605; §63.6625(e), (f), and (h); and §63.6640(f) :

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

**§63.6603(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 2b to this subpart that apply to you.

**§63.6603(b) through (f)** - *apply only to non-emergency engines.*

Table 2b to Subpart ZZZZ of Part 63—Operating Limitations for ... Existing CI Stationary RICE >500 HP

Table 2b requirements: (No applicable Table 2b requirements for existing CI emergency engines at area sources).

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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:

Table 2d requirements, item 4 - Emergency stationary CI RICE and black start stationary CI RICE.:

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

**§63.6625(i)** ... you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Table ... 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table ... 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 business 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 business 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.

**§63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?**

**§63.6604(b)** Beginning January 1, 2015, if you own or operate an existing emergency CI stationary RICE with a site rating of more than 100 brake HP and a displacement of less than 30 liters per cylinder that uses diesel fuel and 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 use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel

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fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to January 1, 2015, may be used until depleted.

**§80.510(b)** .... Except as otherwise specifically provided in this subpart, all NR [*non-road*] ...diesel fuel is subject to the following per-gallon standards:

(1) Sulfur content.

- (i) 15 ppm maximum for NR diesel fuel.
- (ii) (*omitted*).

(2) Cetane index or aromatic content, as follows:

- (i) A minimum cetane index of 40; or
- (ii) A maximum aromatic content of 35 volume percent.

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

**§63.6605(a)** You must be in compliance with the emission limitations, operating limitations, and other requirements in this subpart that apply to you at all times.

**§63.6605(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.

**§63.6625** What are my monitoring, installation, collection, operation, and maintenance requirements?

**§63.6625(e)(3)** If you own or operate [an existing emergency ... stationary RICE located at an area source of HAP emissions], 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:

**§63.6625(f)** If you own or operate ... 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.

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**§63.6640 How do I demonstrate continuous compliance with the ... operating limitations, and other requirements?**

**§63.6640(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.

**§63.6640(f)(1)** There is no time limit on the use of emergency stationary RICE in emergency situations.

**§63.6640(f)(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.

(ii) Emergency stationary RICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergencies (incorporated by reference, see §63.14), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

(iii) Emergency stationary RICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

*Note: The Permittee currently does not have a permit from the Department to operate the emergency diesel generators in the non-emergency situations described in paragraphs §63.6640(f)(3) and (f)(4), which are subject to emission limitations under regulation COMAR 26.11.36.*

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**Compliance Demonstration**

As part of the monitoring requirements, the Permittee must follow the requirements listed in 40 CFR 63, Subpart ZZZZ, §63.6640, Table 6. Item 9 of Table 6 requires existing emergency stationary RICE located at an area source of HAP, to demonstrate continuous compliance by either: (1) operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or (2) developing and following the Permittee's 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. As part of the record keeping requirements, the Permittee shall submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. **[Authority: COMAR 26.11.02.19C(2)]** In addition, the Permittee shall follow the requirements in 40 CFR 63, Subpart ZZZZ. Specific record keeping requirements in 40 CFR 63, Subpart ZZZZ may be found in the following sections: §63.6625(i), §63.6655(a), §63.6655(a)(1), §63.6655(d), §63.6655(e)(2), and §63.6655(f)(2). As part of the reporting requirements, the Permittee shall submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. **[Authority: COMAR 26.11.02.19C(2)]** In addition, the Permittee shall follow the requirements in 40 CFR 63, Subpart ZZZZ. Specific reporting requirements in 40 CFR 63, Subpart ZZZZ may be found in the following sections: §63.6640(a), §63.6640(e), §63.6645(a), §63.6650(a), §63.6650(b), §63.6650(b)(1), (b)(2), (b)(3), (b)(4), (b)(5), (b)(6), (b)(7), (b)(8), and (b)(9), §63.6650(c)(1) thru (c)(6), §63.6650(d)(1) & (d)(2), §63.6650(f), §63.6650(h)(1) thru (h)(3).

**Emission Unit – Boilers for Space Heating and Hotwater - A15, A16, A20-1, A21, A23, A24, A25, A26, A27, and A28**

The following emergency diesel generators

**EU: C11: [MDE Reg. No. 021-0131-9-0312]** One (1) 600 kW Kohler Model 600REOZv located in Building No. 693. Installed May 2011.

**EU: C14: [MDE Reg. No. 021-0131-9-0317]** One (1) 1000 kW Kohler Model 1000REOZMB located in Building No. 568. Installed September 2011.

**EU: C15: [MDE Reg. No. 021-0131-9-0353]** One (1) 2000 kW Caterpillar Model SR45/3516C located in Building No. 8100. Installed December 2012.

**EU: C16: [MDE Reg. No. 021-0131-9-0354]** One (1) 500 kW Kohler Model 500REOZJ located in Building No. 1419. Installed December 2012.

As new or reconstructed sources, these emergency generators are powered by diesel-fired internal combustion engines, subject to New Source Performance Standard in 40 CFR 60, Subpart IIII, and National Emissions Standard for Hazardous Air Pollutants in 40 CFR 63, Subpart ZZZZ.

**APPLICABLE STANDARDS and LIMITATIONS**

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**A. Visible Emissions Limitations**

**Visible Emission during Idle Mode. – [COMAR 26.11.09.05E(2)]**

“A person may not cause or permit the discharge of emissions from any engine, operating at idle, greater than 10 percent opacity.”

**Visible Emission during Operating Mode. – [COMAR 26.11.09.05E(3)]**

“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.”

**Exceptions:**

COMAR 26.11.09.05E(2) does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system. 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. COMAR 26.11.09.05E(2) and E(3) do not apply while maintenance, repair, or testing is being performed by qualified mechanics. **[Authority: COMAR 26.11.09.05E(4)]**

**Compliance Demonstration**

As part of the monitoring requirements, the Permittee shall properly operate and maintain the engines in a manner to minimize visible emissions. [Authority: COMAR 26.11.03.06C(3)] As part of the record keeping requirements, the Permittee shall maintain on site an operations manual and preventive maintenance plan that relates to combustion performance, and maintain records of preventive maintenance that relates to combustion performance. [Authority: COMAR 26.11.03.06C(3)] As part of reporting requirements, 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 Oxides from Fuel Burning Equipment**

The Permittee shall not combust fuel oil in the engines with a sulfur content in excess of 15 parts per million by weight. **[Authority: §60.4207, 40 CFR 60, Subpart III]**

**Compliance Demonstration**

As part of the monitoring requirements, The Permittee shall obtain a certification from the fuel supplier indicating that the oil complies with the limitation on the sulfur content of fuel oil. [Authority: COMAR 26.11.03.06C(3)] As part of the record keeping requirements, the Permittee shall maintain records of fuel supplier’s certification and shall make records available to the Department upon request. [Authority: COMAR 26.11.03.06C(3)] As part of reporting requirements, the Permittee shall report fuel supplier certification to the Department upon request. [Authority: COMAR 26.11.09.07C]

**C. Control of Control of Nitrogen Oxides**

**Requirements for Fuel-Burning Equipment with a Capacity Factor of 15 Percent or Less. – [COMAR 26.11.09.08G(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:

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- (1) Provide certification of the capacity factor of the equipment to the Department in writing;
- (2) 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;
- (3) 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;
- (4) 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
- (5) Maintain a record of training program attendance for each operator at the site and make these records available to the Department upon request.

**NOTE:** COMAR 26.11.09.08B(5) states that; (a) for the purpose of COMAR 26.11.09.08, the equipment operator to be trained may be the person who maintains the equipment and makes the necessary adjustments for efficient operation; and (b) that the operator training course sponsored by the Department shall include an in-house training course that is approved by the Department.

**Compliance Demonstration**

As part of the testing requirements, the Permittee shall perform a combustion analysis and optimize combustion at least annually for any engine that operates more than 500 hours during a calendar year. [Authority: COMAR 26.11.09.08G(1)(b)] As part of the monitoring requirements, the Permittee shall: (1) Monitor the hours of operation of each installation and perform a combustion analysis at least once each year for any installation that exceeds 500 hours per year of operation and optimize combustion based on the analysis. [Authority: COMAR 26.11.09.08J]; (2) Calculate the capacity factor of the engine at the end of each month and determine whether an engine's operations exceeded the 15 percent capacity factor on a rolling 12 month basis. [Authority: COMAR 26.11.03.06C(3)]; and (3) The Permittee shall notify the Department not later than 60 days after the date when the fuel burning equipment no longer meets the 15 percent capacity limitation on a rolling 12 month basis and shall meet the applicable fuel-burning RACT requirement of COMAR 26.11.09.08. [Authority: COMAR 26.11.03.06C(3)] As part of the record keeping requirements, the Permittee shall: (1) Retain records of hours of operation on a monthly basis for all engines. At the end of each month, the Permittee shall calculate the total hours for the calendar year. [Authority: COMAR 26.11.03.06C(3)]; (2) Maintain the results of any combustion analysis (if required) at the site and make these results available to the Department and the EPA upon request. [Authority: COMAR 26.11.09.08G(1)(c) & COMAR 26.11.03.06C(3)]; (3) Retain records of training program attendance for each operator at the site and make these records available to the Department upon request. [Authority: COMAR 26.11.09.08G(1)(e) and COMAR 26.11.03.06C(3)]; and (4) Records of the calculated monthly capacity factors. [Authority: COMAR 26.11.03.06C] As part of reporting requirements, the Permittee shall: (1) Submit a list of operator training attendance to the Department upon request. [Authority: COMAR 26.11.09.08E(5)]; (2) Submit the results of combustion analysis to the Department upon request whenever the engine operates more than 500 hours in a calendar year. [Authority: COMAR 26.11.09.08G(1)(c)]; and (3) Submit a

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certification of the annual capacity factor for the engine with the annual emissions certification report. [Authority: COMAR 26.11.09.08G(1)(a) and COMAR 26.11.03.06C(3)]

**D. Operating Limitation**

The Permittee shall:

- (1) Combust only No. 2 diesel fuel oil unless the Permittee applies for and receives an approval or permit from the Department to burn alternative fuels. **[Authority: COMAR 26.11.02.09A]**

*Note: The engines are also nominally subject to 40 CFR 63, Subpart ZZZZ, but meet all of the requirements by being subject to the requirements in 40 CFR 60, Subpart IIII.*  
**[Reference: 40 CFR 63.6590(c)(1)]**

- (2) For any diesel generator whose engine was manufactured after April 1, 2006 and was ordered by the Permittee on or after July 11, 2005, and therefore subject to 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines:
  - (a) Pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in Table 1 to Subpart IIII of Part 60. **[Authority: §60.4205(a), 40 CFR 60, Subpart IIII]**
  - (b) 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE. **[Authority: §60.4205(b), 40 CFR 60, Subpart IIII]**

**§60.4202(a)** Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the emission standards specified in §60.4202(a)(2).

**§60.4202(a)(2)** For engines with a maximum engine power greater than or equal to 37 KW (50 HP), the certification emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants beginning in model year 2007.

- (c) The Permittee shall combust only diesel fuel meeting the requirements of 40 CFR §80.510(b): **[Authority: §60.4207, 40 CFR 60, Subpart IIII]**

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- (i) The maximum sulfur content shall not exceed 15 ppm by weight;
  - (ii) Either the minimum cetane index shall be at least 40 or the maximum aromatic content shall not exceed 40 percent by volume.
- (d) In keeping with §60.4211(f)(2) through (f)(2)(iii), the Permittee shall limit the hours of operation for nonemergency use to 100 hours per year or less unless prior approval is obtained from the Department. **[Authority: §60.4211(f), 40 CFR 60, Subpart III]**

**§60.4211(f)** If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (f)(1) through (3) of this section. In order for the engine to be considered an emergency stationary ICE 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 (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (3) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

**§60.4211(f)(1)** There is no time limit on the use of emergency stationary ICE in emergency situations.

**§60.4211(f)(2)** You may operate your emergency stationary ICE 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 paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

**§60.4211(f)(2)(i)** Emergency stationary ICE 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 ICE beyond 100 hours per calendar year.

**§60.4211(f)(2)(ii)** Emergency stationary ICE may be operated for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3,

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Capacity and Energy Emergencies (incorporated by reference, see §60.17), or other authorized entity as determined by the Reliability Coordinator, has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP-002-3.

**§60.4211(f)(2)(iii)** Emergency stationary ICE may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.

**Compliance Demonstration**

As part of the monitoring requirements, the Permittee must: (1) operate and maintain, over the entire life of the source, each emergency diesel generator and control devices according to the manufacturer's written instructions or according to procedures developed by the Permittee 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 89, 94 and/or 1068 as they may apply to an owner or operator. **[Authority: 40 CFR 60, Subpart III, §60.4211(a)]**; (2) must install non-resettable hour meter on each engine prior to the startup of engine. **[Authority: 40 CFR 60, Subpart III, §60.4209(a)]**; and (3) shall record the operation of each emergency diesel generator in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee must record the time of operation of each emergency diesel generator and the reason the emergency diesel generator was in operation during that time. **[Authority: 40 CFR 60, Subpart III, §60.4214(b)]** As part of the record keeping requirements, the Permittee (1) shall maintain on site for the life of the source the following records for the emergency diesel generators: **[Authority: condition E(2), PTC 021-0131-9-0353 issued by the Department on November 13, 2012, COMAR 26.11.03.06C(3)]** (a) The installation date of each emergency generator; and (b) The certifications of compliance or manufacturer engine test data required by 40 CFR §60.4211 and §60.4214(b); (2) The Permittee shall keep records of the operation of each emergency diesel generator in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee must keep records of the time of operation of each emergency diesel generator and the reason the emergency diesel generator was in operation during that time. **[Authority: 40 CFR 60, Subpart III, §60.4214(b)]**; and (3) shall, for each delivery of fuel to be used in the emergency diesel generators, 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(b). **[Authority: condition E(3), PTC 021-0131-9-0353 issued by the Department on November 13, 2012, COMAR 26.11.03.06C(3)]** As part of the reporting requirements, the Permittee shall: (1) submit a record of the quantity of each type of fuel burned with the annual emissions certification report that is due April 1 of each year. **[Authority: COMAR 26.11.02.19C(2)]** In addition as part of the reporting requirements, the Permittee shall follow the requirements listed in 40 CFR 60, Subpart III, §60.4214(d)(1), (d)(2), and (d)(3).

**Emission Unit – Two (2) 12,000 gallon underground gasoline storage tanks, using Stage I vapor recovery systems, fuel feed to 6 dispensers which use Stage II vapor recovery systems – F1**

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**Emissions Unit F1:** Two (2) 12,000 gallon underground gasoline storage tanks, using Stage I vapor recovery systems, fuel feed to 6 dispensers which use Stage II vapor recovery systems.

An air quality Permit to Construct to install two (2) 12,000 gallon gasoline underground storage tanks for this facility was issued on March 10, 2003. The tanks were installed in June 2004. The tanks service an Army/Air Force Exchange Service (AAFES) gasoline dispensing facility for motor vehicles. Control equipment consists of Stage I and II vapor recovery systems. The NSPS, 40 CFR Part 60 Subpart Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels (including petroleum liquid storage vessels) for which Construction, Reconstruction, or Modification commenced after July 23, 1984, is not applicable because the size of the tanks is below the applicable size threshold for gasoline storage tanks.

The facility is nominally subject to National Emission Standards for Hazardous Air Pollutants area source standard for Gasoline Dispensing Facilities (GDF).40 CFR 63 Subpart CCCCCC. The source qualifies as an existing affected source since it commenced construction prior to November 9, 2006 and for this reason would not required to comply with the standard until January 10, 2011 or 3 years after becoming subject to additional control requirements owing to an increase in the average monthly throughput.

Nominally, Fort Detrick gasoline dispensing facility must comply with §§63.11116(a) and 63.11117(b) requirements. §63.11116(a) requires that facility to use several common good operating practices and §63.11117(b) specifies submerged filling requirements for the gasoline storage tanks. The facility is already in compliance with the submerged filling requirements, which are covered under the requirements for an “approved system” under regulation COMAR 26.11.24.03A and therefore the source is not subject to Initial notification and Notification of Compliance Status under 63.11124(a).

The Fort Detrick gasoline dispensing facility surpassed the 100,000 gallon/month in 2009, which nominally brought in §63.11118(b) Stage I control requirements. However, §63.11118(b)(2) provides that the facility will be deemed in compliance with §63.11118(b), if prior to January 10, 2008, the gasoline dispensing facility is covered by an enforceable State rule or permit that requires a vapor balance system that either (1) achieves an emissions reduction of at least 90 percent; or (2) requires operation using management practices at least as stringent as those specified in Table 1 to Subpart CCCCCC. Accordingly, in keeping with §63.11118(b)(2)(ii), the Department deems the gasoline storage tanks operating in compliance with §63.11118(b).

Additionally, the tanks are not subject to the requirement to perform the periodic testing (once every 3 years) under §63.11120 because the vapor balance system is not “a vapor balance system required under §63.11118(b)(1)” but falls under §63.11118(b)(2) for existing systems subject to an enforceable State rule or permit prior to January 10, 2008. In summary, virtually all requirements coincide with equivalent State requirements.

**APPLICABLE STANDARDS and LIMITATIONS**

**A. Control of Gasoline and Volatile Organic Compound Storage and Handling. Loading Operations – [COMAR 26.11.13.04]**

(1) **Small Storage Tanks – [COMAR 26.11.13.04C]**

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(a) **Applicability.** – [COMAR 26.11.13.04C(1)]

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 §C(1)(a) of this regulation.

(b) **Stage I Vapor Recovery.** – [COMAR 26.11.13.04C(2)]

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.

(2) **General Standards** – [COMAR 26.11.13.04D]

“A person may not cause or permit gasoline or VOC having a TVP of 1.5 psia (10.3 kilonewtons/square meter) or greater to be loaded into any tank truck, railroad tank car, or other contrivance unless the:

- (1) Loading connections on the vapor lines are equipped with fittings that have no leaks and that automatically and immediately close upon disconnection to prevent release of gasoline or VOC from these fittings; and
- (2) Equipment is maintained and operated in a manner to prevent avoidable liquid leaks during loading or unloading operations.”

**Compliance Demonstration**

As part of the monitoring requirements, the Permittee shall (1) at least once a month monitor a fuel drop to verify that the Stage 1 vapor balance system is used. [Authority: COMAR 26.11.03.06C(3)]; and (2) at least once a month during a delivery, monitor the fuel drop for liquid spills and check the hose fittings and connections for leaks and proper operation. [Authority: COMAR 26.11.03.06C(3)] As part of the record keeping requirements, the Permittee shall maintain a record of the results of the monthly observations for use of the Stage I vapor balance system and results of the monthly observations for leaks and spills. [Authority: COMAR 26.11.03.06C(3)]

**B. National Emission Standards for Hazardous Air Pollutants - Gasoline Dispensing Facilities (GDF)** – [40 CFR 63, Subpart CCCCCC]

“As an existing affected source with a monthly throughput of more than 100,000 gallons per month, that commenced construction prior to November 9, 2006, the Permittee must comply with the requirements of §63.11118, as applicable. [Authority: 40 CFR §63.11111 and §63.11113(b)-(c)]

**§63.11113 When do I have to comply with this subpart?**

**§63.11113(b)** If you have an existing affected source, you must comply with the standards in this subpart no later than January 10, 2011.

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**§63.11118 Requirements for facilities with monthly throughput of 100,000 gallons of gasoline or more.**

**§63.11118(a)** You must comply with the requirements in §§63.11116(a) and 63.11117(b).

**§63.11116(a)** provides that you must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:

- (1) Minimize gasoline spills;
- (2) Clean up spills as expeditiously as practicable;
- (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
- (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

**§63.11117(b)** provides that, except as specified in paragraph §63.11117(c), you must only load gasoline into storage tanks at your facility by utilizing submerged filling, as defined in §63.11132, and as specified in paragraph (b)(1) or paragraph (b)(2) of this section.

- (1) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the storage tank.
- (2) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the storage tank.
- (3) Submerged fill pipes not meeting the specifications of paragraphs (b)(1) or (b)(2) of this section are allowed if the owner or operator can demonstrate that the liquid level in the tank is always above the entire opening of the fill pipe. Documentation providing such a demonstration must be made available for inspection by the Administrator's delegated representative during the course of the site visit.

**§63.11118(b)** Except as provided in paragraph (c) of this section, you must meet the requirements of either paragraph (b)(1) or paragraph (b)(2) of this section.

- (1) Each management practice in Table 1 to this subpart that applies to your gasoline dispensing facility (GDF).
- (2) If prior to January 10, 2008, you satisfy the requirements in both paragraphs (b)(2)(i) and (ii) of this section, you will be deemed in compliance with this subsection.
  - (i) You operate a vapor balance system at your GDF that meets the requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section

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- (A) Achieves emissions reduction of at least 90 percent.
- (B) Operates using management practices at least as stringent as those in Table 1 to this subpart.
  - (ii) Your gasoline dispensing facility is in compliance with an enforceable State, local, or tribal rule or permit that contains requirements of either paragraph (b)(2)(i)(A) or paragraph (b)(2)(i)(B) of this section.

*Note: In keeping with §63.11118(b)(2)(ii), the Department deems gasoline storage tanks operating in compliance with a permit that was issued by the Department before January 10, 2008 to be in compliance with §63.11118(b).*

**§63.11118(d)** Cargo tanks unloading at GDF must comply with the management practices in Table 2 to Subpart CCCCCC of Part 63 – Applicability Criteria and Management Practices for Gasoline Cargo Tanks Unloading at Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More. *Table 2 specifies the following requirements:*

- (i) All hoses in the vapor balance system are properly connected,
- (ii) The adapters or couplers that attach to the vapor balance line on the storage tank have closures that seal upon disconnect,
- (iii) All vapor return hoses, couplers, and adapters used in the gasoline delivery are vapor-tight,
- (iv) All tank truck vapor return equipment is compatible in size and forms a vapor-tight connection, and
- (v) All hatches on the tank truck are closed and securely fastened.
- (vi) The filling of storage tanks at GDF shall be limited to unloading by vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 shall be carried on the cargo tank.

**§63.11118(e) - (g)** *See testing, recordkeeping, notification, and reporting requirements. .*

**Compliance Demonstration**

As part of the testing requirements, the Permittee shall follow the requirements listed in §63.11120. As part of the record keeping requirements, the Permittee shall follow the requirements listed in §63.11125. As part of the reporting requirements, the Permittee shall follow the notification requirements listed in §63.11124(a) & (b). In addition, the Permittee must comply with the requirements listed in §63.11126. Each owner or operator subject to the management practices in §63.11118 shall report to the Administrator the results of all volumetric efficiency tests required under §63.11120(b). Reports submitted under this paragraph must be submitted within 180 days of the completion of the performance testing.

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**C. Vapor Recovery at Gasoline Dispensing Facilities – [COMAR 26.11.24]**

**(1) General Requirements – [COMAR 26.11.24.03]**

- (a) New Gasoline Dispensing Facilities. After May 15, 1993, an owner or operator of a new gasoline dispensing facility may not operate the gasoline dispensing facility unless it is equipped and operated with an approved system. **[Authority: COMAR 26.11.24.03A]**
- (b) An operator may not use or allow the use of defective equipment associated with the transfer of gasoline from a stationary gasoline storage tank to motor vehicle fuel tanks. **[Authority: COMAR 26.11.24.03E]**
- (c) The operator may not install or use a replacement part in an approved system unless that part has been certified by CARB or approved by the Department for the approved system. **[Authority: COMAR 26.11.24.03F]**
- (d) Gasoline storage tanks serving a gasoline dispensing facility that is subject to this chapter shall be equipped with a properly designed and installed pressure and vacuum valve with minimum pressure and vacuum settings as specified in the CARB Executive Order for that system. **[Authority: COMAR 26.11.24.03H]**
- (e) If an approved system is certified under more than one Executive Order, the most recent Executive Order shall apply. **[Authority: COMAR 26.11.24.03I]**

**(2) Training Requirements for Operation and Maintenance of Approved Systems – [COMAR 26.11.24.06]**

**(a) General – [COMAR 26.11.24.06A]**

“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 §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 – [COMAR 26.11.24.06B]**

(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.

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(2) The approved training course shall be of a duration sufficient to properly train persons in the requirements of this chapter.”

**(3) Instructional Signs – [COMAR 26.11.24.08]**

“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:

(i) Instructions, with illustrations, on how to insert the nozzle, dispense gasoline, and how to remove the nozzle;

(ii) A warning against attempts to continue refueling after automatic shut-off of the gasoline (that is, topping off); and

(iii) The Department's toll-free telephone number which may be used for complaints or comments concerning the use of Stage II vapor recovery systems.”

**Compliance Demonstration**

The following regulations and requirements address compliance with the applicable standards/limits under COMAR 26.11.24.03, COMAR 26.11.24.06, COMAR 26.11.24.08 identified above.

Testing requirements are shown below:

- (1) Except as provided in §§F and G of this regulation, an owner subject to this chapter shall perform the following CARB-approved tests:
  - (a) A leak test in accordance with the Vapor Recovery Test Procedure TP-201.3 referenced in Regulation .01-1B(1) of this chapter;
  - (b) 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;
  - (c) 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;
  - (d) 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
  - (e) 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.
- (2) 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.
- (3) Stage II Vapor Recovery System. – **[COMAR 26.11.24.04C]**

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- (a) An owner of a Stage II vapor recovery system subject to this chapter shall repeat the required tests:
- (i) In accordance with the test schedule in §C(2) of regulation COMAR 26.11.24.04; and
  - (ii) Upon replacement of 75 percent or more of an approved system.
- (b) Test Schedule:

<i>Type of Stage II Vapor Recovery System</i>	<i>Initial Test</i>	<i>Frequency of Retest</i>
(a) Vapor Balance System	Dynamic Back Pressure	12 months
	Leak Test	12 months
	Liquid Blockage Test	5 years
(b) Vapor Assist System – Type 1	Air to Liquid Ratio Test	12 months
	Leak Test	12 months
	Nozzle Regulation Test	5 years
(c) Vapor Assist System – Type 2. Model 400	Nozzle Regulation Test	12 months
	Air to Liquid Ratio Test	12 months
(d) Vapor Assist System –Type 2. Model 600	Air to Liquid Ratio Test	12 months
	Vapor Return Line Integrity Test	12 months

- (4) The owner shall test the automatic shutoff and flow prohibiting mechanisms upon installation and at least monthly after to ensure that they operate properly. **[Authority: COMAR 26.11.03.06C]**
- (5) 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. **[Authority: COMAR 26.11.24.04D]**
- (6) Alternative test methods approved by CARB may be used in place of the test methods specified in §A of regulation COMAR 26.11.24.04, if the alternative test methods are approved by the U.S. EPA as a revision to the SIP, which is Maryland’s plan for meeting National Ambient Air Quality Standards. **[Authority: COMAR 26.11.24.04E]**
- (7) 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. **[Authority: COMAR 26.11.24.04F]**

Monitoring requirements will be accomplished through the following inspection requirements:

- (1) Inspection Requirements. – **[COMAR 26.11.24.05]**
- (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 **[Authority: COMAR 26.11.24.05A]**.

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- (b) Except as provided in §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 affect 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 affected.

(2) Inspection Requirements by a Certified Inspector. – **[COMAR 26.11.24.05-1]**

- (a) Operator Requirements.
  - (1) “A person that operates a gasoline dispensing facility or a gasoline storage tank with a vapor recovery system shall ensure that a certified inspector performs an inspection of each vapor recovery system.
  - (2) Each vapor recovery system shall be inspected by a certified inspector in accordance with the schedules set forth in COMAR 26.10.03.10.”
- (b) Inspection Requirements.
  - (1) “The certified inspector shall inspect each vapor recovery system to confirm that:
    - (a) All the necessary equipment has been installed;
    - (b) The equipment is functioning properly; and
    - (c) There is no defective equipment in use.
  - (2) The certified inspector shall review the facility files to confirm that:
    - (a) All testing required by this chapter has been completed;
    - (b) The operator has performed daily inspections of the Stage II equipment;
    - (c) The records required by this chapter are complete and maintained onsite; and
    - (d) All other requirements of this chapter are being met.
  - (3) The certified inspector shall complete an inspection form provided by the Department and submit the completed form to the Department within 30 days after completing the inspection.”

Record keeping Requirements will be accomplished through the following inspection requirements:

- (1) “An operator subject to this chapter shall create and maintain a record file at the facility.

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- (2) 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.
- (3) The equipment maintenance records shall include:
  - (a) 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;
  - (b) 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
  - (c) Inspection reports and any other information relating to maintenance or care of the approved system.”

Reporting Requirements will be accomplished through the following inspection requirements:

“The following reporting requirements apply to any test required 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.”

#### **TITLE IV - ACID RAIN**

The Acid Rain Program does not apply to Fort Detrick.

#### **TITLE VI - OZONE DEPLETING SUBSTANCES**

There are ozone depleting substances released to the atmosphere at this location. Fort Detrick is currently complying with the applicable federal requirements in 40 CFR 82.

#### **SECTION 112 (r) - ACCIDENTAL RELEASE**

Fort Detrick is subject to the requirements of Section 112 (r) of the Clean Air Act. Their risk management plan (RMP) was received by EPA on June 21, 1999. The plan is required to address the potential for accidental releases of chlorine, which is routinely stored at the facility in quantities exceeding the threshold quantity of 2500 lbs.

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**PERMIT SHIELD**

Fort Detrick did not request a permit shield.

**INSIGNIFICANT ACTIVITIES**

This section contains a list of the 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. 118 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;

*(Applicable to Air Quality Control Area II)*

The boilers are subject to the following requirements:

COMAR 26.11.09.05A(1), 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 greater than 20 percent opacity.

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.

COMAR 26.11.09.07A(1)(c), 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.

- (2) No. 0 Fuel-burning equipment using solid fuel and having a heat input of less than 350,000 Btu (0.37 gigajoule) per hour;
- (3) No. 19 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 emergency diesel generators rated at less than 500 brake horsepower are subject to the following requirements:

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- (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.
- (4) 0 Space heaters utilizing direct heat transfer and used solely for comfort heat;
- (5)  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;
- (6) No. 17 Unheated VOC dispensing containers or unheated VOC rinsing containers of 60 gallons (227 liters) capacity or less;

The containers are subject to COMAR 26.11.19.09D, which requires that the Permittee control emissions of volatile organic compounds (VOC) from cold degreasing operations by meeting the following requirements:

- (a) COMAR 26.11.19.09D(2)(b), which establishes that the Permittee shall not use any VOC degreasing material that exceeds a vapor pressure of 1 mm Hg at 20 °C;
- (b) COMAR 26.11.19.09D(3)(a—d), which requires that the Permittee implement good operating practices designed to minimize spills and evaporation of VOC degreasing material. These practices, which shall be established in writing and displayed such that they are clearly visible to operators, shall include covers

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(including water covers), lids, or other methods of minimizing evaporative losses, and reducing the time and frequency during which parts are cleaned;

- (c) COMAR 26.11.19.09D(4), which prohibits the use of any halogenated VOC for cold degreasing.

The Permittee shall maintain on site for at least five (5) years, and shall make available to the Department upon request, the following records of operating data:

(i) Monthly records of the total VOC degreasing materials used; and

(ii) Written descriptions of good operating practices designed to minimize spills and evaporation of VOC degreasing materials.

- (7) 0 Commercial bakery ovens with a rated heat input capacity of less than 2,000,000 Btu per hour;
- (8) 0 Kilns used for firing ceramic ware, heated exclusively by natural gas, liquefied petroleum gas, electricity, or any combination of these;
- (9) 0 Confection cookers where the products are edible and intended for human consumption;
- (10) 0 Die casting machines;
- (11)  Photographic process equipment used to reproduce an image upon sensitized material through the use of radiant energy;
- (12)  Equipment for drilling, carving, cutting, routing, turning, sawing, planing, spindle sanding, or disc sanding of wood or wood products;
- (13)  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;
- (14) 0 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;
- (15) 0 Containers, reservoirs, or tanks used exclusively for electrolytic plating work, or electrolytic polishing, or electrolytic stripping of brass, bronze, cadmium, copper, iron, lead, nickel, tin, zinc, and precious metals;
- (16) Containers, reservoirs, or tanks used exclusively for:
- (a) 0 Dipping operations for applying coatings of natural or synthetic resins that contain no VOC;

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- (b)   0   Dipping operations for coating objects with oils, waxes, or greases, and where no VOC is used;
- (c)   ✓   Storage of butane, propane, or liquefied petroleum, or natural gas;
- (d) No.   5   Storage of lubricating oils;
- (e) No.   0   Unheated storage of VOC with an initial boiling point of 300 °F (149 °C) or greater;
- (f) No.  46  Storage of Numbers 1, 2, 4, 5, and 6 fuel oil and aviation jet engine fuel;
- (g) No.   0   Storage of motor vehicle gasoline and having individual tank capacities of 2,000 gallons (7.6 cubic meters) or less;
- (h) No. 2500 The storage of VOC normally used as solvents, diluents, thinners, inks, colorants, paints, lacquers, enamels, varnishes, liquid resins, or other surface coatings and having individual capacities of 2,000 gallons (7.6 cubic meters) or less;
- (17)   0   Gaseous fuel-fired or electrically heated furnaces for heat treating glass or metals, the use of which does not involve molten materials;
- (18) Crucible furnaces, pot furnaces, or induction furnaces, with individual capacities of 1,000 pounds (454 kilograms) or less each, in which no sweating or distilling is conducted, or any fluxing is conducted using chloride, fluoride, or ammonium compounds, and from which only the following metals are poured or in which only the following metals are held in a molten state:
- (a)   0   Aluminum or any alloy containing over 50 percent aluminum, if no gaseous chloride compounds, chlorine, aluminum chloride, or aluminum fluoride is used;
- (b)   0   Magnesium or any alloy containing over 50 percent magnesium;
- (c)   0   Lead or any alloy containing over 50 percent lead;
- (d)   0   Tin or any alloy containing over 50 percent tin;
- (e)   0   Zinc or any alloy containing over 50 percent zinc;
- (f)   0   Copper;
- (g)   0   Precious metals;
- (19)   ✓   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;

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- (20) ✓ 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;
- (21) ✓ Certain recreational equipment and activities, such as fireplaces, barbecue pits and cookers, fireworks displays, and kerosene fuel use;
- (22) ✓ Potable water treatment equipment, not including air stripping equipment;
- (23) 0 Firing and testing of military weapons and explosives;
- (24) 0 Emissions resulting from the use of explosives for blasting at quarrying operations and from the required disposal of boxes used to ship the explosive;
- (25) ✓ Comfort air conditioning subject to requirements of Title VI of the Clean Air Act;
- (26) 0 Grain, metal, or mineral extrusion presses;
- (27) 0 Breweries with an annual beer production less than 60,000 barrels;
- (28) ✓ Natural draft hoods or natural draft ventilators that exhaust air pollutants into the ambient air from manufacturing/industrial or commercial processes (Permittee enumerated 41) ;
- (29) ✓ Laboratory fume hoods and vents (Permittee enumerated 263)
- (30) No. 0 Sheet-fed letter or lithographic printing press(es) with a cylinder width of less than 18 inches;

*For the following, attach additional pages as necessary:*

- (31) any other emissions unit, not listed in this section, with a potential to emit less than the "de minimis" levels listed in COMAR 26.11.02.10X (list and describe units):
- (none identified)
- (32) any other emissions unit at the facility which is not subject to an applicable requirement of the Clean Air Act (list and describe):
- No. 2 Usage of *paraformaldehyde* to decontaminate biological research suites, SSP and equipment.
- No. 1 Usage of *ethylene oxide* to decontaminate laboratory research equipment and supplies

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**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. FACILITY-WIDE**

*COMAR 26.11. 06.08 and .09* which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

*COMAR 26.11.15.05* which requires the installation and operation of T-BACT for new installations or sources discharging a toxic air pollutant to the atmosphere.

*COMAR 26.11.15.06* which prohibits the discharge of toxic air pollutants to the extent that the emissions will unreasonably endanger human health.

The Permittee shall certify in writing to the Department the results of an air toxics analysis for the previous calendar year by April 1 of each year during the term of this permit. The air toxics analysis shall include either:

- (a) a statement that the previously submitted toxics compliance demonstrations remain valid; or
- (b) a new toxics compliance demonstration developed in accordance with the requirements set forth under COMAR 26.11.15, if the Permittee has made changes to its operations that make the last submitted compliance demonstration invalid.

**2. EMISSION UNITS B5 AND B6**

Two (2) medical waste incinerators, each rated at 1,000 lbs/hr, located in Bldg. 393.

- 1. The incinerator may charge up to 400 pounds per charge of animal bedding materials. Under this circumstance, the incinerator cannot be loaded within the next 24 minutes after such a charge.
- 2. Radioactive waste shall not be incinerated without having in current effect all required permits from the Department.

The following requirements are from Permit to Construct number 10-2-0066 & 0067 issued by the Department on June 6, 1995:

- 3. To meet the T-BACT requirement for HCl emissions, the incinerators shall be equipped wet collision caustic scrubbers, or equivalent. The scrubbers shall be designed to achieve a removal efficiency of at least 95 percent unless the HCl concentration does not exceed 50 parts per million (ppm) by volume in the dry scrubber exhaust gases corrected to 7 percent oxygen (O<sub>2</sub>).

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4. To meet the T-BACT requirement for incomplete combustion products:
  - (a) The incinerators shall be equipped with secondary combustion chambers designed to meet a minimum retention time of 2 seconds at 1,800 deg F.
  - (b) The carbon monoxide (CO) concentration in the secondary combustion chamber exhaust gas shall not exceed 100 ppm corrected to 7% O<sub>2</sub>.
5. The incinerators shall be constructed with the following design specifications:
  - (a) The primary combustion chamber shall have a minimum interior volume of 568 cubic feet;
  - (b) The secondary combustion chamber shall have a minimum interior volume of 604 cubic feet to meet the T-BACT requirement of a 2 second retention time at 1,800 deg. F.
  - (c) The incinerators shall be equipped with electronic devices to continuously monitor and record the temperature of the flue gases exiting the primary and secondary combustion chamber
  - (d) Continuous emission monitors and recorders shall be installed to continuously monitor and record the CO and O<sub>2</sub>.
6. Auxiliary burners shall be used to raise the temperature in the secondary combustion chamber to greater than 1,700 deg. F prior to charging any special medical waste [T-BACT].
7. The secondary combustion chambers shall be maintained at a temperature of not less than 1,700 deg. F while the incinerators are charging any special medical waste [T-BACT].
8. The weight of each charge and the time it is fed into the primary combustion chamber shall be recorded.
9. The weight of each charge may not exceed one-fifth of the rated hourly burn. The time interval between two succeeding charges may not be less than the time (T) in minutes determined as follows:
$$T = 60 * (\text{charge}/\text{hourly burn rate})$$
10. Each incinerator shall not burn more than 1,000 pounds per hour.
11. The scrubbing solution exiting the wet collision scrubber, or equivalent, shall be kept at a pH of not less than 7.0 while the incinerator is in operation.
12. The temperature of the gas leaving the secondary combustion chamber shall be maintained at least 1,500 deg. F for at least two hours when the temperature of the gas leaving the

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primary combustion chamber drops below 1,400 deg. F.

13. The incinerators and the scrubbers shall be properly maintained and visually inspected daily to ensure the integrity and good working conditions for each unit operation. Each inspection shall be recorded and maintained on-site.
14. The Permittee shall not use the incinerators to dispose of any waste generated off-site. The Permittee shall retain an outside contractor to haul its special medical waste away for a proper off-site disposal when its incineration system has been shut down for more than four (4) days.
15. Ash shall be visually inspected to assure the complete combustion of infectious waste.

### **3. EMISSION UNITS B1 AND B4**

Two (2) Small Municipal Waste Combustion units, each rated at 39 ton/day, each equipped an emission control system, and heat recovery boilers.

The following State-only terms of the Consent Order signed by Fort Detrick on October 12, 2007 and by the Department on October 22, 2007 remain in effect.

- "4. Fort Detrick shall complete the Supplemental Environmental Project (SEP) described below, which the parties agree is intended to secure significant environmental and public health benefits through the reduction of emissions of carbon monoxide, hydrocarbons, particulate, and air toxics. The SEP shall be completed as follows:
- "(b) Subject to Subparagraph 4(c), commencing with the first full year following the date upon which construction of the 20,000-gallon tank is completed pursuant to Paragraph 4(a) of this Consent Order, Fort Detrick shall utilize a minimum of 60,000 gallons of B-20 biodiesel in each calendar year.
  - "(c) Commencing with the calendar year beginning January 1, 2010, Fort Detrick shall utilize a minimum of 100,000 gallons of B-20 biodiesel in that year and in each calendar year thereafter.

### **4. EMISSION UNITS C1 THROUGH C16**

16 Emergency diesel generators 500 kW – 2000 kW firing diesel fuel oil.

*COMAR 26.11.36.03A(1)*. The owner or operator of an emergency generator may not operate the generator except for emergencies, testing, and maintenance purposes.

*COMAR 26.11.36.03A(5)*. The owner or operator of an emergency generator or load shaving unit may not operate the engine for testing and engine maintenance purposes between 12:01 a.m. and 2:00 p.m. on any day on which the Department forecasts that the air quality will be a code orange, code red, or code purple unless the engine fails a test and engine maintenance and a re-test are necessary.