

# **Statement of Basis**

**Tier I Operating Permit No. T1-2012.0062**

**Project ID 61117**

**The United States Air Force, Mountain Home Air Force Base  
Mountain Home, Idaho**

**Facility ID No. 039-00001**

**Final**

**May 8, 2015**

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HE)

**Permit Writer**

**The purpose of this Statement of Basis is to set forth the legal and factual basis for the Tier I operating permit terms and conditions, including references to the applicable statutory or regulatory provisions for the terms and conditions, as required by IDAPA 58.01.01.362**

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## 1. ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AFS	AIRS Facility Subsystem
AGE	Aerospace Ground Equipment
AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
AST	above ground storage tanks
ASTM	American Society for Testing and Materials
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CFR	Code of Federal Regulations
CI	compression ignition
CO	carbon monoxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EI	emissions inventory
EPA	Environmental Protection Agency
g/kW-hr	gram per kilowatt per hour
gal/day	gallon per day
gr	grain (1 lb = 7,000 grains)
HAPs	Hazardous Air Pollutants
HC	hydrocarbons
HP	horsepower
ICE	internal combustion engines
hr/yr	hour per any consecutive 12-month period
IDAPA	A numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
kW(KW)	kilowatt
kPa	kilopascal
lb/hr	pounds per hour
LPB-1330	aircraft painting booth
SPB-1330	aircraft parts painting booth
m <sup>3</sup>	cubic meter
MACT	Maximum Available Control Technology
MHAFB	The United States Air Force, Mountain Home Air Force Base
NESHAP	Nation Emission Standards for Hazardous Air Pollutants
NMHC	non-methane-hydrocarbons
NO <sub>2</sub>	nitrogen dioxide
NO <sub>x</sub>	nitrogen oxides

## 2. INTRODUCTION AND APPLICABILITY

Mountain Home Air Force Base (MHAFB) is located at 366 Gunfighter Ave Ste 331 in Mountain Home. The facility is classified as a major facility, as defined by IDAPA 58.01.01.008.10.c, because it emits or has the potential to emit carbon monoxide and oxides of nitrogen above the major source threshold of 100 tons-per-year. HAPs emissions are below the major source thresholds of 10 tons per year for any one HAP and 25 tons per year for all HAPs combined. It should be noted that the potential to emit of greenhouse gases from the facility are below 100,000 tons per year of CO<sub>2</sub> equivalent.

IDAPA 58.01.01.362 requires that as part of its review of the Tier I application, DEQ shall prepare a technical memorandum (i.e. statement of basis) that sets forth the legal and factual basis for the draft Tier I operating permit terms and conditions including reference to the applicable statutory provisions or the draft denial. This document provides the basis for the draft Tier I operating permit for MHAFB.

The format of this Statement of Basis follows that of the permit with the exception of the facility's information discussed first followed by the scope, the applicable requirements and permit shield, and finally the general provisions.

Mountain Home Air Force Base Tier I operating permit is organized into sections. They are as follows:

### **Acronyms, Units, and Chemical Nomenclature**

The Acronyms, Units, and Chemical Nomenclature section defines the abbreviations used in the Statement of Basis and Tier I permit to operate.

### **Section 1 – Tier I Operating Permit Scope**

The scope describes this permitting action.

### **Section 2 – Facility-Wide Conditions**

The Facility-wide Conditions section contains the applicable requirements (permit conditions) that apply facility-wide. Where required, monitoring, recordkeeping, and reporting requirements sufficient to assure compliance with each permit condition follows the permit condition.

**Section 3 through 12 – Emissions Unit Group 1: Hospital Boilers, Emissions Unit Group 2: Jet Engine Testing – Hush House I, Building 1344 & Hush House II, Building 270, Emissions Unit Group 3: Aircraft Parts Surface Coating Spray Booths – Building 1330, Emissions Unit Group 4: Flight Line Area Spray Painting, Emissions Unit Group 5: Vehicle Spray Paint Booth, Emissions Unit Group 6: Bead-Blasting Unit – Building 1330, Emissions Unit Group 7: A Group of Four Barrier Flight Line Generators, Emissions Unit Group 8: Hospital Emergency Generator Engines, Emissions Unit Group 9: Miscellaneous Sources, and Emissions Unit Group 10: Emergency Diesel Generator Engines Subject to 40 CFR 60 Subpart III.**

The emissions unit-specific sections of the permit contain the applicable requirements that specifically apply to each regulated emissions unit. Some requirements that apply to an emissions unit (e.g. opacity limits) may be contained in the facility-wide conditions. As with the facility-wide conditions, monitoring, recordkeeping and reporting requirements sufficient to assure compliance with each applicable requirement immediately follows the applicable requirement.

### **Section 13 - Insignificant Activities**

This section lists those requirements that the applicant has requested as non-applicable, and DEQ proposes to grant a permit shield in accordance with IDAPA 58.01.01.325.

If requested by the applicant, this section also lists emissions units and activities determined to be insignificant activities based on size or production as allowed by IDAPA 58.01.01.317.01.b.

### **Section 14 – General Provisions**

The final section of the permit contains standard terms and conditions that apply to all major facilities subject to IDAPA 58.01.01.300. This section is the same for all Tier I sources. These conditions have been reviewed by EPA and contain all terms required by IDAPA 58.01.01 et al as well as requirements from other air quality laws and regulations. Each general provision has been paraphrased so it is more easily understood by the general public; however, there is no intent to alter the effect of the requirement. Should there be a discrepancy between a paraphrased general provision in this statement of basis and the rule or permit, the rule or permit shall govern.

## **3. FACILITY INFORMATION**

### **3.1 Facility Description**

The facility is the United States Air Force, Mountain Home Air Force Base. The emissions units at the facility are listed in Section 2 above. Emissions units descriptions are detailed in the specific section of each emission unit in the Tier I operating permit.

### **3.2 Facility Permitting History**

#### Tier I Operating Permit History - Previous permit term (i.e., July 22, 2008 to July 22, 2013)

The following information is the permitting history of this Tier I facility during the previous permit term, which was from July 22, 2008 to July 22, 2013. This information was derived from a review of the permit files available to DEQ. Permit status is noted as active and in effect (A), superseded (S), or (T) terminated or no longer in effect.

July 22, 2008	T1-2007.0041, Tier I operating permit renewal, Permit status (A) but will become (S) as a result of this permitting action.
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#### Underlying Permit History - Includes every underlying permit issued to this facility

The following information is the comprehensive permitting history of all underlying applicable permits issued to this Tier I facility. This information was derived from a review of the permit files available to DEQ. Permit status is noted as active and in effect (A) or superseded (S).

#### Revised and Consolidated Permit

May 30, 2002 - a revised and consolidated PTC was issued for the following sources:

- Hospital Boilers (more details can be found below under “C”)
- Hush House I and Hush House II (more details can be found below under “E”)
- Bead-Blasting Unit (more details can be found below under “G”)
- Flight Line Area Spray Painting (more details can be found below under “I”)
- Vehicle Spray Painting Booth (more details can be found below under “J”)

- Aircraft and Aircraft Parts Surface-coating Spray Booths Building 1330 (Corrosion Control Hangar) (more details can be found below under “F” and “G”) (S)

- April 9, 2003 PTC No.P-030004, a PTC revision for change of responsible official. (S)
- October 1, 2004 PTC No.P-040026, a PTC revision for change of responsible official and facility contact person. (S)
- May 24, 2007 PTC No. P-060068, a PTC modification for changing monitoring and operation requirements, and including permit conditions in PTC No. P-040025 issued October 1, 2004 (more details can be found below under “M”). (S)
- August 23, 2012 PTC No. P-2012.0029 Proj 61056, a PTC modification to use natural gas exclusively and no longer use oil for backup in the hospital boilers, and to replace three existing 750 kW diesel emergency generators with two new 800 kW diesel emergency generators. This PTC replaced P-060068, issued May 24, 2007 (A)

#### Four Barrier Flight Line Generator Engines

- May 14, 2007 PTC No. P-060048, an initial PTC for four Barrier flight line generator engines. (A)

The following provides detailed background for revised and consolidated PTC No. P-060068, issued May 24, 2007.

#### A. Hospital Incinerator

Per a DEQ inspection conducted on July 25, 1997, the hospital medical waste incinerator was rendered inoperable sometime in 1995 and removed from the base sometime in 1996.

- October 4, 1989 a modified PTC was issued for the medical waste incinerator. (T)
- November 15, 1988 a modified PTC was issued for the medical waste incinerator. (S)
- June 19, 1986 a PTC was issued for a medical waste incinerator for the new base hospital. (S)

#### B. Central Heat Plant

- November 2, 2001 a request to cancel the PTC for the central heat plant was received. The central heat plant was permanently closed on November 30, 2001. (T)
- November 15, 1999 a modified PTC was issued for the central heat plant. This permit supersedes all other permits issued for the central heat plant. (S)
- January 8, 1996 a modified PTC was issued for the central heat plant. (S)
- March 31, 1995 a modified PTC was issued for the central heat plant. (S)
- June of 1993 a PTC was issued for the central heat plant, authorizing a change in fuel from coal to natural gas. (S)

July 31, 1980 a state of Idaho operating permit was issued for the central heat plant. The expiration date of this permit was July 30, 1985. (S)

C. Hospital Boilers

November 18, 1998 a PTC was issued for the operation of three boilers at the base hospital. (S)

D. Portable Sources

October 5, 2001 DEQ received a memorandum dated October 5, 1999, written by David C. Bray, Senior Air Pollution Scientist, Office of Air Quality, EPA Region 10, addressing portable sources operating on military installations. Portable sources are not considered part of the base; therefore, their emissions are not counted. Portable sources are not included in this permit. (S)

August 28, 2000 a modified PTC was issued for portable source operations. This permit supersedes all other permits issued for portable source operations. (S)

April 19, 2000 a PTC was issued to allow portable sources (rock crushers, hot-mix asphalt plants, and concrete batch plants) to operate on the base. (S)

E. Jet Engine Testing

November 30, 1999 a PTC was issued to allow jet engine testing in the hush houses. (S)

September 13, 1996 an exemption from permitting requirements was issued for Hush House 1 (S)

F. Corrosion Control Hangar 1330

April 27, 2001 a modified PTC was issued for the corrosion control paint booth. (S)

January 17, 2001 a modified PTC was issued for the corrosion control paint booth. (S)

September 22, 1995 a modified PTC was issued for the corrosion control paint booth. (S)

February 2, 1995 a PTC was issued for the corrosion control aircraft paint booth. (S)

G. Bead-blasting Hangar 1330

November 22, 1995 a PTC was issued for the bead-blasting unit in hangar 1330. (S)

H. Corrosion Control Hangar 192

December 16, 1997 an exemption from permitting requirements was issued for the corrosion control aircraft paint booth located in hangar 192. (A)

I. Flight Line Area Spray Painting

March 30, 2000 a modified PTC was issued for the flight line area spray painting operations. (S)

November 8, 1999 a PTC was issued for the flight line area spray painting operations. (S)

J. Vehicle Spray Paint Booth

September 19, 1999 a modified PTC was issued for the vehicle paint booth. (S)

April 18, 1996 a modified PTC was issued for the vehicle paint booth. (S)

May 28, 1992 a PTC was issued for a vehicle spray paint booth. (S)

K. Aerospace Ground Equipment (AGE)

July 31, 2000 DEQ issued an exemption from permitting requirements for all turbine engine AGE. (A)

June 7, 2000 EPA issued a ruling allowing the internal combustion AGE to be considered a non-road engine and therefore exempt from permitting and registration fee payment. (A)

L. Base Hospital, Ethylene Oxide Gas Sterilizer

September 3, 1996 an exemption from permitting was issued for a backup, ethylene-gas sterilizer. The ethylene oxide sterilizer has since been removed. (T)

M. Hurst Boiler and Three CAT Generator Engines

May 25, 2004 PTC No.P-030037, initial PTC for installing a dual-fuel burner for the Hurst boiler at MHA<sup>2</sup>FB hospital, and increasing operation hours of three CAT generators (S)

October 1, 2004 PTC No.P-040025, PTC revision for names change of responsible official and facility contact person. (S)

## 4. APPLICATION SCOPE AND APPLICATION CHRONOLOGY

### 4.1 Application Scope

This permit is the renewal of the facility's currently effective Tier I operating permit.

### 4.2 Application Chronology

October 1, 2012 DEQ received an application.

November 29, 2012 DEQ determined the application was complete.

June 11, 2014 DEQ received supplemental information from the applicant.

July 28, 2014, DEQ received supplemental information from the applicant.

December 17, 2014 DEQ received the FRA forms for Quad Z, Quad I, and Quad J from the applicant.

January 5, 2015 Draft permit and statement of basis issued for regional office and peer review.

January 16, 2015 Draft permit and statement of basis issued to the facility for review.

February 11, 2015 Draft permit and statement of basis issued for public comment.

March 16, 2015 Proposed permit and statement of basis issued to EPA for EPA 45-day review.

May 8, 2015 DEQ issued the final renewed Tier I operating permit to the facility.

## 5. EMISSIONS UNITS, PROCESS DESCRIPTION(S), AND EMISSIONS INVENTORY

This section lists the emissions units, describes the production or manufacturing processes, and provides the emissions inventory for this facility. The information presented was provided by the applicant in its permit application. Also listed in this section are the insignificant activities based on size or production rate.

No changes have occurred at the facility during the previous six years that would increase the facility's emissions compared to the previous Tier I operating permit term.

### 5.1 Emission Unit Group 1: Hospital Boilers

Table 5.1 lists the emissions units and control devices associated with the Emission Unit Group 1 - Hospital Boilers.

**Table 5.1 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
Boilers Nos. 1-3	Kewanee boilers	None	Boilers Exhaust to a common stack
Hurst boiler	Hurst boiler	None	Exhaust stack, boiler

MHAFB operates three Kewanee boilers for heating and other needs at the base hospital. Each boiler is rated at 5.231 MMBtu/hr and combusts only natural gas fuel. The Kewanee boilers vent emissions through a common stack. No operating limit applies on the amount of natural gas combusted.

The facility also operates one Hurst boiler for heating and other needs at the base hospital. The Hurst boiler is rated at 1.05 MMBtu/hr combusts only natural gas fuel. No operating limit applies on the amount of natural gas combusted.

### 5.2 Emission Unit Group 2: Jet Engine Testing – Hush House 1, Building 1344, and Hush House 2, Building 270

Table 5.2 lists the emissions units and control devices associated with the Emission Unit Group 2: Jet Engine Testing – Hush House 1, Building 1344, and Hush House 2, Building 270.

**Table 5.2 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
Hush House No. 1	Hush House No. 1	None	Hush house No. 1 stack
Hush House No. 2	Hush House No. 2	None	Hush house No. 2 stack

MHAFB tests aircraft engines as required by operational conditions. The engines are tested in one of two "hush-houses," which were constructed to minimize the noise from engine test operations. The stack has numerous baffles to dissipate the sound energy. Engines are removed from aircraft and transported to one of the hush houses, affixed to a test stand, and then adjusted and/or repaired. Upon completion of the adjustments and repairs, the engine is test fired at idle, approach, intermediate, military and/or afterburner power settings for a short time period. Each criteria pollutant has an individual emissions rate when operated at each power setting.

### 5.3 Emission Unit Group 3: Aircraft and Aircraft Parts Surface Coating Spray Booths – Building 1330

Table 5.3 lists the emissions units and control devices associated with the Emission Unit Group 3: Aircraft and Aircraft Parts Surface Coating Spray Booths – Building 1330.

**Table 5.3 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
LPB-1330	Large paint booth, LPB-1330	PM filters, carbon adsorption filter	LPB stack
SPB-1330	Small paint booth, SPB-1330	PM filters	SPB stack

The corrosion control treating process consists of surface preparation and painting aircraft and aircraft parts in one of two paint booths. Aircraft and some parts are treated in the large paint booth (LPB-1330), and parts are painted in the small paint booth (SPB-1330). The items to be treated are first cleaned with solvents, then painted using high-volume, low pressure (HVLP) paint spray guns. The painting equipment is cleaned using solvents after use. Both paint booths exhaust through particulate filters that have a manufacturer-rated efficiency of 97%. The large paint booth also exhausts through a carbon adsorption filter, which has a manufacturer-rated efficiency of 90% for VOC emissions. The underlying PTC limits the amount of paint and solvent used on a 24-hour and annual basis. Also, the amount of paint used containing HDI (CAS No. 822-06-0; Hexamethylene Diisocyanate) is limited daily.

#### 5.4 Emission Unit Group 4: Flight Line Area Spray Painting

Table 5.4 lists the emissions units and control devices associated with the Emission Unit Group 4: Flight Line Area Spray painting.

**Table 5.4 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
NA	Flight line area spray painting	HVLP spray guns	Fugitive emissions

MHAFB conducts open-air spray painting operations in the flight line area. This area includes, but is not limited to, aircraft ramps, aprons, open hangars, and static display aircraft. The coatings are applied using HVLP spray equipment.

#### 5.5 Emission Unit Group 5: Vehicle Spray Paint Booth

Table 5.5 lists the emissions units and control devices associated with the Emission Unit Group 5: Vehicle Spray Paint Booth.

**Table 5.5 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
Building 1100	Vehicle spray paint booth	Particulate filters	Paint booth stack

Building 1100 contains a vehicle spray paint booth that is used to paint the facility's vehicles (trucks, buses, etc.) and parts as needed.

#### 5.6 Emission Unit Group 6: Bead-Blasting Unit – Building 1330

Table 5.6 lists the emissions units and control devices associated with the Emission Unit Group 6: Bead-Blasting Unit – Building 1330.

**Table 5.6 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
Building-1330	Bead-blast booth	Dust collector	Bead-blast stack

A plastic media bead-blast unit installed in Building 1330 is used to strip paint from small components such as fuel tanks and bomb racks. The booth vents through a particulate filter rated at 99.9% efficient for removing particles one micron or greater and 100% efficient for particles two microns or greater.

### 5.7 Emission Unit Group 7: A Group of Four Barrier Flight Line Generator Engines

Table 5.7 lists the emissions units and control devices associated with the Emission Unit Group 7: A Group of Four Barrier Flight Line Generator Engines.

**Table 5.7 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
4 Barrier flight line generator engines	Four barrier line generator engines	None	Generators' stacks

There is a group of four barrier flight line generator engines. Each engine is fueled by gasoline and the engine rated capacity is 65.9 horsepower.

### 5.8 Emission Unit Group 8: Hospital Emergency Generator Engines

Table 5.8 lists the emissions units and control devices associated with the Emission Unit Group 8: Hospital Emergency Generator Engines.

**Table 5.8 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
2 Generator engines	Two emergency generator engines	None	Generator engines' stacks

Two diesel-fired 800 kW emergency standby internal combustion (IC) engines powering two emergency generators provide emergency power to the base hospital in the event of a power failure.

### 5.9 Emission Unit Group 9: Miscellaneous Sources

Table 5.9 lists the emissions units and control devices associated with the Emission Unit Group 9: Miscellaneous Sources.

**Table 5.9 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

Emissions Unit ID No.	Emissions Unit Description	Control Device (if applicable)	Emission Point ID No.
PB-198	Miscellaneous Sources	Particulate and HEPA filter, VOC carbon absorption	Various stacks

Several air pollution sources exist at MHAFB, which are exempt from obtaining a PTC in accordance with IDAPA 58.01.01.220-223. A source is exempt from obtaining a PTC only if operated in

accordance with the information on which the exemption was based. The miscellaneous sources consist of, but are not limited to, turbine aerospace ground equipment (turbine AGE), PB-198 (B-1 hangar), fire training pit, and ordinance disposal.

Generally, applicable requirements for all sources previously determined to be exempt from PTC requirements are contained in the Facility-wide Permit Conditions.

#### 5.10 Emission Unit Group 10: Emergency Diesel Generator Engines Subject to 40 CFR 60 Subpart IIII

Table 5.10 lists the emissions units and control devices associated with the Emission Unit Group 10: Emergency Diesel Generator Engines Subject to 40 CFR 60 Subpart IIII.

**Table 5.10 EMISSIONS UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

<b>Emission Units</b>	<b>Emissions Control Device</b>
Building 196, stationary emergency diesel generator, 10 kW	None
Building 258, stationary emergency diesel generator, 200 kW	None
Building 261, stationary emergency diesel generator, 250 kW	None
Building 265, stationary emergency diesel generator, 175 kW	None
Building 508, stationary emergency diesel generator, 200 kW	None
Building 610, stationary emergency diesel generator, 300 kW	None
Building 1317, stationary emergency diesel generator, 175 kW	None
Building 1321, stationary emergency diesel generator, 60 kW	None
Building 1333, stationary emergency diesel generator, 30 kW	None
Building 1341, stationary emergency diesel generator, 375 kW	None
Building 1795, stationary emergency diesel generator, 150 kW	None
Building 2316, stationary emergency diesel generator, 60 kW	None
Building 3210, stationary emergency diesel generator, 60 kW	None
Building 3499, stationary emergency diesel generator, 100 kW	None
Building 6000 (Hospital), stationary emergency diesel generator #1, 800 kW	None
Building 6000 (Hospital), stationary emergency diesel generator #2, 880 kW	None
Building 6300, stationary emergency diesel generator, 10 kW	None
Building 6399, stationary emergency diesel generator, 350 kW	None
Building 13509, stationary emergency diesel generator, 20 kW	None

The MHAFB has 19 existing stationary emergency diesel generator engines that are subject to 40 CFR 60 Subpart IIII. Two of the emergency engines are permitted for the hospital under Emission Unit Group 8 (PTC No. P-2012.0029 Proj 61056, issued on 8/23/2012). The applicable requirements of Subpart IIII for the hospital generator engines are included in the Emission Unit Group 10.

#### 5.11 Insignificant Emissions Units Based on Size or Production Rate

No emissions unit or activity subject to an applicable requirement may qualify as an insignificant emissions unit or activity. As required by IDAPA 58.01.01.317.01.b, insignificant emissions units (IEU's) based on size or production rate must be listed in the permit application. Table 5.11 lists the IEU's identified in the permit application. Also summarized is the regulatory authority or justification for each IEU.

**Table 5.11 INSIGNIFICANT ACTIVITIES**

Description	Regulatory Authority / Justification
Fuel system/fuel dispensing, and fuel loading racks as identified in the renewal application received October 2, 2012	IDAPA 58.01.01.317.01(b)(i)(30)
<u>Above ground storage tanks</u>	
Base wide – storage tanks of 260 gallons or less	IDAPA 58.01.01.317.01(b)(i)(1) and (30)
Base wide – storage tanks of 10,000 gallons or less	IDAPA 58.01.01.317.01(b)(i)(3) and (30)
Two 1,500,000 above ground storage (AST) tanks	IDAPA 58.01.01.317.01(b)(i)(30)
<u>External combustion sources</u>	
Base wide – additional external combustion sources less than 5 MMBtu/hr	IDAPA 58.01.01.317.01(b)(i)(5)
Base wide – external combustion sources less than 0.5 MMBtu/hr	IDAPA 58.01.01.317.01(b)(i)(6)
Base wide – external combustion sources less than 1 MMBtu/hr	IDAPA 58.01.01.317.01(b)(i)(7)
Surface coating activities as identified in the renewal application received October 2, 2012	IDAPA 58.01.01.317.01(b)(i)(17) and (30)
Fuel tank repair as identified in the renewal application received October 2, 2012	IDAPA 58.01.01.317.01(b)(i)(30)
Petroleum soil bioremediation site as identified in the renewal application received October 2, 2012	IDAPA 58.01.01.317.01(b)(i)(30)
Welding as identified in the renewal application received October 2, 2012	IDAPA 58.01.01.317.01(b)(i)(9)
Composite sanding booth activities as identified in the renewal application received October 2, 2012	IDAPA 58.01.01.317.01(b)(i)(30)

**5.12 Non-applicable Requirements Determination**

The facility provided a list of non-applicability determination for some federal regulations. DEQ reviewed the information provided by in the application, it appears to be accurate. They are:

*“Prevention of Significant Deterioration (PSD) 40 CFR Part 52.21. The PSD rules found at 40 CFR 52.21 and IDAPA 58.01.01.205 do not apply to MHAFB, as the regulated pollutants in this section, after controls, do not equal or exceed the major stationary source threshold of 250 tons per year (40 CFR 52.21(b)(1)(i)(b)).*

*Risk Management Plan (RMP) Chemical Accident Prevention Provisions 40 CFR Part 68. The RMP rules do not apply, at the time of permitting issuance as no regulated toxic or flammable substances are present in a process at MHAFB above the thresholds found at 40 CFR 68.130.*

*New Source Performance Standards (NSPS) 40 CFR Part 60 - Subpart Dc. Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. The four hospital boilers are all less than the 10 MMBtu/hour heat input threshold for Subpart Dc applicability.*

*New Source Performance Standards (NSPS) 40 CFR Part 60 - Subpart Ka. Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. Three jet fuel tanks that contain a storage capacity greater than 40,000 gallons are located at MHAFB. Each jet fuel storage tank was constructed*

prior to May 18, 1978, and has not been modified or reconstructed, and not subject to Subpart Ka. In addition, JP-8 has a vapor pressure less than 3.5 Kpa.

New Source Performance Standards (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. MHAFB contains four tanks with storage capacities between 75 and 151 m<sup>3</sup> with vapor pressures less than 15 kPa. These tanks are exempt from all Subpart Kb requirements, including notification and recordkeeping. Notification and recordkeeping requirements were also eliminated for tanks with capacities less than 75 m<sup>3</sup>.

NSPS 40 CFR Part 60 Subpart WWW-Emission Standards for Municipal Waste Landfills. The onsite Municipal Waste Landfill contains MSW below the threshold design capacity of 2.5 million mega grams. Therefore, it is not subject to NSPS Subpart WWW.

NSPS 40 CFR Part 60 - Subpart GG. Standards of Performance for Stationary Gas Turbines. The four flight line generators are not subject to this standard, as they are not gas turbines.”

MHAFB emailed the following non-applicability determination on April 4, 2008. DEQ reviewed information provided in the applicant, it appears to be accurate. They are:

“Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines Applicability Determination

Mountain Home Air Force Base (MHAFB) operates four stationary spark ignition (SI) internal combustion engines (ICE) on the flightline. These four barrier flightline engines are currently permitted, and each have a rated output capacity of 65.9 horsepower.

Each of the four barrier engines were reconstructed on November 5, 2005. The effective date for owners or operators of lean-burn stationary SI ICE that commence modification or reconstruction after June 12, 2006. Therefore, per 60.4230(a)(5), Subpart JJJJ does not apply to the four barrier flightline SI ICE.

Subpart MM – Standards of Performance for Automobile and Light Duty Truck Surface Coating Operations

MHAFB operates a Vehicle Spray Paint booth to spray paint existing government vehicles (trucks, buses, etc.) and automobile parts as required for repair and maintenance. The Vehicle Spray Paint booth will apply a separate prime coat and topcoat using the same spray gun to paint or coat damaged vehicle and automobile parts.

This NSPS is applicable to “automobile or light-duty truck assembly plants” at 40 CFR 60.390(c). This term is not defined in this standard but is specifically applies to “plants” which are considered to be large assembly plants for the manufacture of new vehicles.

The term “automobile and light duty truck surface coating operation” is defined at 40 CFR Part 63 subpart III “National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light-Duty Trucks”. The EPA defines an automobile and light duty truck bodies or collections of body parts for new automobiles or new light duty trucks. (Emphasis added. Proposed Rule 67 FR 78611, 12/24/02).

The spray booth at the MHAFB is not a plant and does not assemble new automobile or light-duty trucks. Therefore, per 60.390(a), Subpart MM does not apply to the Vehicle Spray Paint booth.

40 CFR Part 63 – National Emission Standards for Hazardous Air Pollutants

Section 112 of the Clean Air Act (CAA) Amendments relates to the release of air toxic contaminants. The requirements of CAA Section 112(g) or (j) are not applicable because the facility is not a major source of HAPs (40 CFR 63.40(b)). Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAPS) apply to both major sources of HAPs, defined as PTE equal to or greater than 10 tons per year for any single HAP or PTE equal to or greater than 25 tons per year for total HAP, and area sources of HAPs as defined as any stationary source of HAPs that is not a major source. As HAP emissions are below major source thresholds, MHAFB is not a major source of HAPs. However, the base is an area source of HAPs.

40 CFR Part 63 Subpart DDDDD – Industrial, Commercial and Institutional Boilers and Process Heaters

This Subpart establishes national emission limits and work practice standards for hazardous air pollutants emitted from industrial, commercial, and institutional boilers and process heaters. MHAFB is not a major source of HAP emissions; therefore, this subpart is not applicable.

40 CFR Part 63 Subpart PPPPP – Engine Test Cells/Standards

This Subpart establishes NESHAP for engine test cells/stands located at major sources of hazardous air pollutants emissions. MHAFB is not a major source of HAP emissions; therefore, this subpart is not applicable.

40 CFR Part 63 Subpart BBBBBB – NESHAP for Gasoline Distribution Bulk Terminals, Bulk Plants, and Pipeline Facilities

MHAFB receives four types of fuel (gasoline, propane, diesel, and jet fuel) to support its current military mission. Gasoline, propane, and diesel fuel are received by the base via tanker and jet fuel is received via pipeline from bulk terminal in the City of Mountain Home, Idaho. In addition, jet fuel may also be distributed to MHAFB by tanker truck depending on demand. MHAFB does not operate or maintain a bulk terminal, bulk plant, or pipeline facility for gasoline distribution and is not subject to the requirements in 40 CFR 63.11081.

40 CFR Part 63 Subpart JJJJJ – NESHAP for Industrial, Commercial, and Institutional Boilers area Sources

MHAFB operates and maintains hundreds of small (less than 10 MMBTU/hr) boilers for building heat for each building throughout the base. MHAFB operates these boilers exclusively on natural gas or propane. Therefore, in accordance with 40 CFR 63.11195(e), a gas-fired boiler is not subject to this subpart. A gas-fired boiler is defined as a boiler that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

40 CFR Parts 51, 52, 70 and 71 – Greenhouse Gas Tailoring Rule

On May 13, 2010, the U.S. Environmental Protection Agency (EPA) issued a final rule that establishes an approach to addressing greenhouse gas emissions from stationary sources under the CAA permitting programs. This final rule sets thresholds for GHG emissions that define when permits under the NSR, PSD, and Title V operating permit programs are required for new and existing facilities. This rule “tailors” the requirements of these CAA permitting programs to limit which facilities will be required to obtain PSD and Title V permits.

Beginning July 1, 2011, the PSD major source threshold of 100,000 tons per year CO<sub>2</sub>e became effective. A new source with potential GHG emissions above 100,000 tons per year CO<sub>2</sub>e is now subject to PSD permitting requirements for GHG, regardless of whether PSD is also triggered for non-GHG pollutants. Modifications to existing major sources (defined relative to the new 100,000 tons per year threshold for CO<sub>2</sub>e or the 100/250 tons per year threshold for traditional NSR regulated pollutants) that

result in an increase of GHG emissions by 75,000 tons per year CO<sub>2</sub>e or more are subject to PSD permitting requirements for GHG. Therefore, beginning July 1, 2011, PSD for GHG pollutants can be triggered regardless of whether PSD is also triggered for non-GHG pollutants. In addition, beginning July 1, 2011, facilities with potential CO<sub>2</sub>e emissions of 100,000 tons per year or more are subject to Title V permitting requirements.

For determining PSD (or Title V) major source or major modification applicability, the quantity of GHGs emitted must not only equal or exceed 100,000 tons per year (75,000 tons per year for modifications) thresholds on a CO<sub>2</sub>e basis, but the Sum of emissions of each GHG pollutant not adjusted for its global warming potential must also exceed the applicable threshold for non-GHG regulated pollutants (i.e., 100 tons per year for Title V or 100 tons per year/250 tons per year for PSD, depending on whether the source is on the list of 28 PSD categories or a designated facility as defined in IDAPA 58.01.006.26v).

As the total base-wide CO<sub>2</sub>e is 23,653 tons per year, the base is not subject to PSD or Title V operating permit programs with respect to the GHG Tailoring Rule at this time.

### 5.13 Emission Inventory

Table 5.13 summarizes the emissions inventory for this major facility. Emission rates in Table 5.13 are obtained from the permittee's renewed Tier I operating permit application submitted on October 1, 2012. All values are expressed in units of tons-per-year and represent the facility's potential to emit. Potential to emit is defined as the maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, including air pollution control equipment and restrictions on hour of operation or on the type or amount of material combusted, stored or processed shall be treated as part of its design if the limitation or the effect it would have on emission is state or federally enforceable.

**Table 5.13 EMISSIONS INVENTORY - POTENTIAL TO EMIT**

Emission Sources (Point Sources)	PM <sub>10</sub> /PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>2</sub>	CO	VOC	HAPs
	T/yr	T/yr	T/yr	T/yr	T/yr	T/yr
Abrasive Blasting (Cr+6 Permitted)	0.0003					6.90E-05
Aboveground Storage Tanks (ASTs)					6.37	0.52
External Combustion Sources	6.1	73.0	1.9	55.6	4.4	1.5
Internal Combustion Sources	3.3	54.9	2.9	12.1	7.4	0.045
Barrier Flightline Generators (Permitted)	0.024	0.19	0.19	15.0	0.16	0.075
New Hospital Generators (Permitted)	0.18	5.80	0.006	3.14	0.37	0.006
Fuel Cell Maintenance					0.042	0.006
Fuel Dispensing					3.65	0.32
Fuel Loading					1.03	0.086
Jet Engine Testing – Hush House Nos. 1 & 2 (Permitted)	4.0	85.0	1.5	63.0	13.0	0.46
Aircraft Paint Booth (Permitted)	0.078				0.015	0.023
Aircraft Parts Paint Booth (Permitted)	0.044				0.009	0.025
Flightline Open-Area Spraying (Permitted)	0.003				1.5	0.002
Transportation Paint Booth (Permitted)					4.0	0.0004
Total	13.7	219	6.3	149	41.9	3.0

## 6. EMISSIONS LIMITS AND MRRR

This section contains the applicable requirements for this major facility. Where applicable, monitoring, recordkeeping and reporting requirements (MRRR) follow the applicable requirement and state how compliance with the applicable requirement is to be demonstrated.

This section is divided into several subsections. The first subsection lists the requirements that apply facility wide. The next subsection lists the emissions units- and emissions activities-specific applicable requirements. The final subsection contains the general provisions that apply to all major facilities subject to Idaho DEQ's Tier I operating permit requirements.

This section contains the following subsections:

- Facility-Wide Conditions;
- Emission Unit Group 1: Hospital Boilers;
- Emission Unit Group 2: Jet Engine Testing – Hush House I, Building 1344, and Hush House II, Building 270;
- Emission Unit Group 3: Aircraft and Aircraft Parts Surface Coating Spray Booths – Building 1330;
- Emission Unit Group 4: Flight Line Area Spray Painting;
- Emission Unit Group 5: Vehicle Spray Paint Booth;
- Emission Unit Group 6: Bead-Blasting Unit – Building 1330;
- Emission Unit Group 7: A Group of Four Barrier Flight Line Generator Engines;
- Emission Unit Group 8: Hospital Emergency Generator Engines;
- Emission Unit Group 9: Miscellaneous Sources;
- Emission Unit Group 10: Emergency Diesel generators subject to 40 CFR 60 Subpart IIII; and
- Tier I Operating Permit General Provisions.

### ***MRRR***

Immediately following each applicable requirement (permit condition) is the periodic monitoring regime upon which compliance with the underlying applicable requirement is demonstrated. A periodic monitoring regime consists of monitoring, recordkeeping and reporting requirements for each applicable requirement. If an applicable requirement does not include sufficient monitoring, recordkeeping and reporting to satisfy IDAPA 58.01.01.322.06, 07, and 08, then the permit must establish adequate monitoring, recordkeeping and reporting sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the permit. This is known as gap filling. In addition to the specific MRRR described under each permit condition, generally applicable facility-wide conditions and general provisions may also be required, such as monitoring, recordkeeping, performance testing, reporting, and certification requirements.

The discussion of each permit condition includes the legal and factual basis for the permit condition. If a permit condition was changed due to facility draft or public comments, a description of why and how the condition was changed is provided.

### ***State Enforceability***

An applicable requirement that is not required by the federal CAA and has not been approved by EPA as a SIP-approved requirement is identified as a "State-only" requirement and is enforceable only under state law. State-only requirements are not enforceable by the EPA or citizens under the CAA. State-only requirements are identified in the permit within the citation of the legal authority for the permit condition.

### ***Federal Enforceability***

Unless identified as "State-only," all applicable requirements, including MRRR, are state and federally enforceable. It should be noted that while a violation of a MRRR is a violation of the permit, it is not necessarily a violation of the underlying applicable requirement (e.g. emissions limit).

To minimize the length of this document, the following permit conditions and MRRR have been paraphrased. Refer to the permit for the complete requirements.

## **6.1 Facility-Wide Conditions**

### **Permit Condition 2.1 - Fugitive Dust**

All reasonable precautions shall be taken to prevent PM from becoming airborne in accordance with IDAPA 58.01.01.650-651.

[IDAPA 58.01.01.650-651, 3/30/07]

### **MRRR (Permit Conditions 2.2 through 2.4)**

- Monitor and maintain records of the frequency and the methods used to control fugitive dust emissions;
- Maintain records of all fugitive dust complaints received and the corrective action taken in response to the complaint;
- Conduct facility-wide inspections of all sources of fugitive emissions. If any of the sources of fugitive dust are not being reasonably controlled, corrective action is required.

[IDAPA 58.01.01.322.06, 07, 08, 4/5/2000]

### **Permit Condition 2.5 - Odors**

The permittee shall not allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

[IDAPA 58.01.01.775-776 (State-only), 5/1/94]

### **MRRR (Permit Condition 2.6)**

- Maintain records of all odor complaints received and the corrective action taken in response to the complaint;
- Take appropriate corrective action if the complaint has merit, and log the date and corrective action taken.

[IDAPA 58.01.01.322.06, 07 (State only), 5/1/94]

### **Permit Condition 2.7 - Visible Emissions**

The permittee shall not discharge any air pollutant to the atmosphere from any point of emission for a period or periods aggregating more than three minutes in any 60-minute period which is greater than 20% opacity as determined by procedures contained in IDAPA 58.01.01.625. These provisions shall not apply when the presence of uncombined water, nitrogen oxides, and/or chlorine gas is the only reason for the failure of the emission to comply with the requirements of this section.

[IDAPA 58.01.01.625, 4/5/00]

### **MRRR (Permit Condition 2.8)**

- Conduct facility-wide inspections of all emissions units subject to the visible emissions standards (or rely on continuous opacity monitoring);
- If visible emissions are observed, take appropriate corrective action and/or perform a Method 9 opacity test;
- Maintain records of the results of each visible emissions inspection.

[IDAPA 58.01.01.322.06, 07, 5/1/94]

### **Permit Conditions 2.9 - Excess Emissions**

The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions. The provisions of IDAPA 58.01.01.130-136 shall govern in the event of conflicts between the excess emissions facility-wide conditions and the regulations of IDAPA 58.01.01.130-136.

#### **MRRR (Permit Conditions 2.9.2 through 2.9.5)**

Monitoring, recordkeeping and reporting requirements for excess emissions are provided in Sections 131 through 136.

- Take appropriate action to correct, reduce, and minimize emissions from excess emissions events;
- Prohibit excess emissions during any DEQ Atmospheric Stagnation Advisory or Wood Stove Curtailment Advisory;
- Notify DEQ of each excess emissions events as soon as possible, including information regarding upset, breakdown, or safety events.
- Submit a report for each excess emissions event to DEQ;
- Maintain records of each excess emissions event.

#### **Permit Conditions 2.10 - Performance Testing**

If performance testing is required, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test or shorter time period as provided in a permit, order, consent decree, or by DEQ approval. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests such testing not be performed on weekends or state holidays.

All testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, prior to conducting any performance test, the permittee is encouraged to submit in writing to DEQ, at least 30 days in advance, the following for approval:

- The type of method to be used
- Any extenuating or unusual circumstances regarding the proposed test
- The proposed schedule for conducting and reporting the test  
[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

#### **MRRR (Permit Conditions 2.11- Monitoring and Recordkeeping)**

The permittee shall submit compliance test report(s) to DEQ following testing.  
[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]

#### **Permit Condition 2.12 - Reports and Certifications**

This permit condition establishes generally applicable MRRR for submittal of reports, certifications, and notifications to DEQ and/or EPA as specified.

[IDAPA 58.01.01.322.08, 11, 5/1/94]

#### **MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.13 – Fuel-Burning Equipment PM Standards**

The permittee shall not discharge to the atmosphere from any fuel-burning equipment PM in excess of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume for gas, 0.050 gr/dscf of effluent gas corrected to 3% oxygen by volume for liquid, 0.050 gr/dscf of effluent gas corrected to 8% oxygen by volume for coal, and 0.080 gr/dscf of effluent gas corrected to 8% oxygen by volume for wood products.

[IDAPA 58.01.01.676-677, 5/1/94]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.14 - Sulfur Content**

The permittee shall not sell, distribute, use, or make available for use any of the following:

- Distillate fuel oil containing more than the following percentages of sulfur:
  - ASTM Grade 1 fuel oil, 0.3% by weight.
  - ASTM Grade 2 fuel oil, 0.5% by weight.

[IDAPA 58.01.01.725, 3/29/10]

**MRRR - (Permit Condition 2.14.1)**

The permittee shall maintain documentation of supplier verification of fuel sulfur content on an as received basis.

[IDAPA 58.01.01.322.06, 5/1/94]

**Permit Condition 2.15 - Open Burning**

The permittee shall comply with the *Rules for Control of Open Burning*, IDAPA 58.01.01.600-623.

[IDAPA 58.01.01.600-623, 5/08/09]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.16 - Asbestos**

The permittee shall comply with all applicable portions of 40 CFR 61, Subpart M when conducting any renovation or demolition activities at the facility.

[40 CFR 61, Subpart M]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.17 - Accidental Release Prevention**

An owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, shall comply with the requirements of the Chemical Accident Prevention Provisions at 40 CFR 68 no later than the latest of the following dates:

- Three years after the date on which a regulated substance present above a threshold quantity is first listed under 40 CFR 68.130.
- The date on which a regulated substance is first present above a threshold quantity in a process.

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.18 - Recycling and Emissions Reductions**

The permittee shall comply with applicable standards for recycling and emissions reduction of refrigerants and their substitutes pursuant to 40 CFR 82, Subpart F, Recycling and Emissions Reduction. [40 CFR 82, Subpart F]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.19 – National Emissions Standard for Aerospace Manufacturing and Rework Facilities**

The permittee shall submit an emission inventory of all hazardous air pollutants emitted by all affected stationary sources, as defined by 40 CFR 63.741.c, that are located in the contiguous area under the permittee's common control. This emission inventory to include speciation of hazardous air pollutants must be submitted in accordance with Permit Condition 2.12, and shall be used to demonstrate compliance to maintain synthetic minor status regarding 40 CFR 63, Subpart GG.

[40 CFR 63, Subpart GG]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.20 and 2.21 – NSPS (40 CFR 60) and MACT (40 CFR 63) General Provisions**

This facility is subject to NSPS Subparts IIII and JJJJ; and NESHAP Subparts ZZZZ, CCCCCC, and is therefore required to comply with applicable General Provisions of the Subpart A.

[40 CFR 60, Subpart A]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.22 – Incorporation of Federal Requirements by Reference**

Unless expressly provided otherwise, any reference in this permit to any document identified in IDAPA 58.01.01.107.03 shall constitute the full incorporation into this permit of that document for the purposes of the reference, including any notes and appendices therein.

[IDAPA 58.01.01.107, 4/7/11]

**MRRR**

No specific monitoring is required for this facility-wide condition. As with all permit conditions, the permittee must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Permit Condition 2.23 – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines – 40 CFR 63 Subpart ZZZZ**

The permittee shall comply with all applicable portions of 40 CFR 63, Subpart ZZZZ, which are specified in Permit Conditions 2.23.1 through 2.23.13.

**MRRR**

The Tier I Permit Conditions 2.23.1 through 2.23.13 includes monitoring, reporting and recordkeeping requirements to ensure the MHAFB demonstrates compliance with the applicable requirements of Subpart ZZZZ.

See Appendix A for the Federal Requirements Applicability (FRA) form submitted by MHAFB.

**Permit Condition 2.24 – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities – 40 CFR 63 Subpart CCCCCC**

The permittee shall comply with all applicable portions of 40 CFR 63, Subpart CCCCCC, which are specified in Permit Conditions 2.24.1 through 2.24.10.

**MRRR**

The Tier I Permit Conditions 2.24.1 through 2.24.10 includes monitoring, reporting and recordkeeping requirements to ensure the MHAFB demonstrates compliance with the applicable requirements of Subpart CCCCCC.

See Appendix B for the Federal Requirements Applicability (FRA) form submitted by MHAFB.

**6.2 Emissions Unit-Specific Emissions Limits and MRRR**

**Emission Unit Group 1: Hospital Boilers**

**Permit Condition 3.1– Fuel Type Restriction, burning natural only – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

The hospital boilers shall be fired on natural gas exclusively.

**MRRR – (Permit Condition 2.11)**

Monitoring is required in the facility-wide permit condition 2.11. As with all permit conditions, MHAFB must certify compliance with this condition annually, which includes making a reasonable inquiry to determine if this requirement was met during the reporting period.

**Emission Unit Group 2: Jet Engine Testing – Hush House 1, Building 1344, and Hush House 2, Building 270**

**Permit Condition 4.1– Emissions Limits – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

Particulate matter, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, and VOC emissions from the Hush House 1 and 2 augmentor tubes shall not exceed any corresponding emissions rate limit listed in Table 4.3 below.

**Table 4.3 ANNUAL HUSH HOUSE EMISSION RATE LIMITS <sup>a</sup>**

Source Description	PM	PM <sub>10</sub> <sup>b</sup>	SO <sub>2</sub>	NO <sub>x</sub>	VOC	CO
	T/yr <sup>c</sup>	T/yr <sup>c</sup>	T/yr <sup>c</sup>	T/yr <sup>c</sup>	T/yr <sup>c</sup>	T/yr <sup>c</sup>
Hush Houses 1 and 2 combined	4.0	4.0	1.5	85	13	63

<sup>a</sup> In absence of any other credible evidence, compliance is assured by complying with permit operating, monitoring, and recordkeeping requirements.

<sup>b</sup> Particulate matter with an aerodynamic diameter less than or equal to a nominal ten (10) micrometers, including condensable particulate as defined in IDAPA 58.01.01.006.

<sup>c</sup> Tons per any consecutive 12-calendar month period.

[PTC No. P-2012.0029, 8/23/12]

**MRRR – (Permit Condition 4.2 through 4.5 and 2.11)**

Compliance with the PM/PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, VOC, and CO emissions limits in Permit Condition 4.1 is determined by Permit Condition 4.2 (operating hour limits) and Permit Condition 4.5 (monitoring and recording hours of operations.)

Compliance with the tons per year emissions limits from the Hush House 1 and Hush House 2 can be determined through calculations using AP-42 or other DEQ-approved emissions factors. Emissions calculations shall be kept at the site in accordance with Facility-wide Permit Condition 2.11.

**Emission Unit Group 3: Aircraft and Aircraft Parts Surface Coating Spray Booths – Building 1330**

**Permit Condition 5.1– PM Emissions Limits – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

No person shall discharge to the atmosphere from any source operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emission from the entire source in pounds per hour, and PW is the process weight in pounds per hour.

- a. If PW is less than 9,250 lb/hr,

$$E = 0.045(PW)^{0.6}$$

- b. If PW is equal to or greater than 9,250 lb/hr,

$$E = 1.10(PW)^{0.25}$$

[PTC No. P-2012.0029, 8/23/12]

**MRRR (Permit Condition 2.11)**

If the permittee chooses to assure compliance through testing, the appropriate test methods for PM process weight rate shall be in accordance with IDAPA 58.01.01.157. The permittee may also choose to assure compliance through calculations using AP-42 or other DEQ-approved emissions factors and a maximum process throughput (see Permit Conditions 5.2, 5.3, and 5.4). Any recordkeeping and monitoring information maintained for process weight rate shall be retained for a period of five years in accordance with Facility-wide Condition 2.11.

**Permit Conditions 5.2 and 5.3 – Operating Requirements – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

**LPB-1330 Throughput Limit**

The maximum throughput of all coatings and solvents in the aircraft painting booth (LPB-1330) shall not exceed 684 gal/day or 1,250 gallons per any consecutive 12-month period.

[PTC No. P-2012.0029, 8/23/12]

**SPB-1330 Throughput Limits**

The maximum throughput of coatings and solvents in the aircraft parts painting booth (SPB-1330) shall not exceed 140 gal/day or 350 gallons per any consecutive 12-month period.

[PTC No. P-2012.0029, 8/23/12]

**MRRR (Permit Condition 5.8, Throughput Monitoring)**

The permittee is required to ensure through monitoring that:

The permittee is required to monitor and record the throughput (type and amount) of all coatings and solvents applied in painting booths nos. LPB-1330 and SPB-1330 on days of application. Throughput must be recorded in gal/day and gal per any consecutive 12-month period. The consecutive 12-month period throughput shall be calculated monthly. All record shall be retained for five years at the site in accordance with Facility-wide Condition 2.11.

**Permit Condition 5.4 – Operating Requirements for Hexamethylene Diisocyanate (HDI) – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

The maximum daily throughput of materials containing not more than 1% by weight HDI (CAS No. 822-06-0) shall be limited to the quantities listed in the following tables. The maximum daily throughput of materials containing in excess of 1% by weight HDI (CAS No. 822-06-0) shall be determined on a case-by-case basis.

**Aircraft and Aircraft Parts Surface Coating Spray Booths**

**No More than 1% HDI (CAS No. 822-06-0) Containing Material Throughput Limitations**

**Table 5.3 LPB-1330 THROUGHPUT LIMITS**

HDI Upper Limit	Density Range		Calculated Throughput Limit
	Lower	Upper	
C (wt%)	$\rho$ (lb/gal)	$\rho$ (lb/gal)	Q (gal/day)
1.0%	< 8.0	8.0	431
1.0%	8.0	10.0	345
1.0%	10.0	12.0	288
1.0%	12.0	14.0	246
1.0%	14.0	16.0	216

**Table 5.4 SPB-1330 THROUGHPUT LIMITS**

HDI Upper Limit	Density Range		Calculated Throughput Limit
	Lower	Upper	
C (wt%)	$\rho$ (lb/gal)	$\rho$ (lb/gal)	Q (gal/day)
1.0%	<8.0	8.0	32
1.0%	8.0	10.0	25
1.0%	10.0	12.0	21
1.0%	12.0	14.0	18
1.0%	14.0	16.0	16

[PTC No. P-2012.0029, 8/23/12]

### **MRRR (Permit Condition 5.10, Monitoring of HDI-Containing Materials)**

The permittee is required to ensure through monitoring that:

The permittee shall record the days of application for all materials used in the booths that contain quantifiable amounts of HDI. The records shall contain, but are not limited to, the following information: the name and identification number of each HDI-containing product used, its content of HDI in percent by weight (wt%), the density of each HDI-containing product in pounds per gallon (lb/gal), throughput calculations for materials containing more than 1% by weight HDI, and the amount used in gallons of each product. All record shall be retained for five years at the site in accordance with Facility-wide Condition 2.11.

### **Permit Conditions 5.5 through 5.7 – Operating Requirements [Maintain Efficiency of the Booth, Pressure Drop for Filtration System, and the use of HVLP Spray Paint Guns] – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

The permittee is required to ensure through monitoring that:

- The permittee shall conduct inspections of the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system on days the paint booths are in operation. The filtration systems shall be maintained in accordance with manufacturer specifications and the filtration system Operations and Maintenance (O&M) manual. [PTC No. P-2012.0029, 8/23/12]
- The pressure drop across the LPB-1330 and SPB-1330 particulate-matter filtration systems shall be maintained within the manufacturer or O&M manual specifications. [PTC No. P-2012.0029, 8/23/12]

The permittee shall use HVLP spray paint guns or equivalent low-emissions spray guns for bulk-paint applications.

[PTC No. P-2012.0029, 8/23/12]

### **MRRR (Permit Condition 5.9 and 5.11, Filtration System Inspection and Maintenance, O&M Manual)**

The permittee is required to ensure through monitoring that:

- The permittee shall maintain records of all inspections and maintenance performed on the LPB-1330 particulate-matter filtration system, the LPB-1330 VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The records shall include, but are not limited to, the date of the inspection and/or maintenance performed, the relative condition of the filter pads, and the type of maintenance performed (e.g., replacement of pads, etc.). All record shall be retained for five years at the site in accordance with Facility-wide Condition 2.11.
- The permittee shall have developed an O&M Manual for the LPB-1330 particulate-matter filtration system and VOC adsorption system, and the SPB-1330 particulate-matter filtration system. The manual shall describe the procedures that will be followed to comply with the manufacturer specifications for the air pollution control devices. This manual shall remain onsite at all times and shall be made available to DEQ representatives upon request.

### **Emission Unit Group 4: Flight Line Area Spray Painting**

#### **Permit Condition 6.1– VOC Emissions Limits – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

Emissions of VOC shall not exceed 1.5 T/yr.

**MRRR (Permit Conditions 6.2 through 6.4, 2.11)**

The permittee is required to ensure through monitoring that:

- The paint throughput is limited to 16.1 gal/day and not to exceed 300 gal/yr.
- To use a HVLP spray paint guns, or equivalent.
- To monitor the type and amount of paint used daily, monthly, and annually.
- Retain records of the paint used at the source for five years and in accordance with the Facility-wide Condition 2.11.

**Emission Unit Group 5: Vehicle Spray Paint Booth**

**Permit Conditions and 7.1 and 7.2 – PM and VOC Emissions Limits – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

Emissions of PM and VOC shall not exceed any of the following limits:

- PM Emissions Limits – Process weight rate equations per IDAPA 58.01.01.701.01

a. If PW is less than 9,250 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 9,250 lb/hr,

$$E = 1.10(PW)^{0.25}$$

[PTC No. P-2012.0029, 8/23/12]

- VOC Emissions Limits

Emissions of VOC shall not exceed 4 T/yr.

**MRRR (Permit Conditions 7.3 through 7.8, 2.11)**

The permittee is required to ensure through monitoring that:

- The paint throughput is limited to 300 gal/yr.
- To use a HVLP spray paint guns, or equivalent.
- To monitor the type and amount of paint used daily, monthly, and annually.
- The pressure drop across the filtration system is within manufacturer specifications.
- To inspect the filtration system when the paint booth is in operation and maintain it in accordance with the manufacturer specifications. The records of inspections and maintenance must be recorded and compiled and retained at the site such as the type of maintenance performed, date of inspection performed, etc.
- To retain records of the paint used at the source for five years and in accordance with the Facility-wide Condition 2.11.

**Emission Unit Group 6: Bead-Blasting Unit – Building 1330:**

**Permit Conditions 8.1 and 8.2 – PM and VOC Emissions Limits – (PTC No. P-2012.0029, Proj 61056, 8/23/12)**

Emissions of Hexavalent chromium ( $Cr^{+6}$ ) and PM shall not exceed any of the following limits:

- **Cr<sup>+6</sup> Emissions Limits**

Emissions of Cr<sup>+6</sup> shall not exceed 0.137 lb/yr.

- **PM Emissions Limits – Process weight rate equations per IDAPA 58.01.01.701.01**

a. If PW is less than 9,250 lb/hr,

$$E = 0.045(PW)^{0.6}$$

b. If PW is equal to or greater than 9,250 lb/hr,

$$E = 1.10(PW)^{0.25}$$

[PTC No. P-2012.0029, 8/23/12]

**MRRR (Permit Conditions 8.3 through 8.7, and 2.11)**

The permittee is required to ensure through monitoring that:

- The bead-blast unit is not operating more than 4,500 hours per any consecutive 12-month period.
- The annual average weight percent of hexavalent chromium is not to exceed 1.075% of the PM controlled by the dust collector per year.
- The dust collector is operated and maintained in accordance with the manufacturer specifications.
- The operating hours of the bead-blast unit is recorded and maintained and the records be retained at the site for five year in accordance with Facility-wide Condition 2.11.
- The PM collected from the dust collector assembly is sampled to determine the weight percent of Cr<sup>+6</sup> for determining compliance with Permit Condition 8.4 (Hexavalent Chromium Weight Percent). The material collected is required to be sampled and analyzed prior to disposal. All of this information is needed to be compiled for the most recent five years and the sampling records be retained at the site in accordance with Facility-wide Condition 2.11.

**Emission Unit Group 7: A Group of Four Barrier Flight Line Generator Engines**

**Permit Condition and 9.1 – PM<sub>10</sub> Emissions Limits – (PTC No. P-060048, 5/14/07)**

The PM<sub>10</sub> emissions from each barrier flight line generator engine vent/stack shall not exceed 12 pounds per calendar year.

**MRRR (Permit Conditions 9.2 through 9.4, and 2.11)**

The permittee is required to ensure that the four barrier flight line generator engines not to operate more than 250 hours in any consecutive 12-month period. In addition, the permittee is required to maintain records of operation hours for each engine on a monthly basis and estimate the annual operating hours. The permittee is required to install, operate, and maintain hour meters for each generator and maintain them in accordance with manufacturer's specifications.

All of this information is required to be compiled for the most recent five years and the sampling records be retained at the site in accordance with Facility-wide Condition 2.11.

**Emission Unit Group 8: Hospital Emergency Generator Engines**

**Permit Condition and 10.1 – SO<sub>2</sub> and NO<sub>x</sub> Emissions Limits – (PTC No. P-2012.0029, 8/23/12)**

Emissions of SO<sub>2</sub> and NO<sub>x</sub> shall not exceed any of the following limits for the two emergency generator engines stacks:

- 0.01 T/yr SO<sub>2</sub>
- 5.8 T/yr NO<sub>x</sub>

**MRRR (Permit Conditions 10.2, 10.3, 10.4, and 10.5)**

The permittee is required to ensure through monitoring that:

- The fuel sulfur contents not to exceed 0.0015% by weight.
- Maintain and operate the IC engines in accordance with the manufacturer’s recommendations.  
Estimate the NO<sub>x</sub> and SO<sub>2</sub> emissions in tons per year using appropriate EPA AP-42 or manufactured supplied emission factors, or a DEQ approved alternative method.
- Maintain records in accordance with Facility-wide Permit Condition 2.11.

**Permit Condition and 10.2 – Fuel Oil Sulfur Content – (PTC No. P-2012.0029, 8/23/12)**

No diesel fuel oil containing sulfur in excess of 15 ppm (0.0015% by weight) shall be burned in the Emergency Generators IC Engines.

**MRRR (Permit Conditions 10. 4 – PTC No. P-2012.0029, 8/23/12)**

The permittee is required to maintain purchase records or equivalent from manufacturer that show the sulfur content of the fuel oil delivered to the facility. The sulfur content purchased records are required to be kept on site at the facility in accordance with facility-wide Permit Condition 2.11.

**Emission Unit Group 9: Miscellaneous Sources**

A minor change is made to this section of the permit. The “all fixed internal combustion generator and pump engines and the generators and pumps range in size from 5 to 1609 hp” portion of the summary description is deleted from the section. Internal combustions engines that are previously qualified as insignificant activities can’t be exempt from applicable requirement because they are subject to one of the subparts ZZZZ, IIII, or JJJJ. Therefore, the applicable requirements associated with those engines are addressed in this renewal under the corresponding subpart that applies to them in this permit.

No other changes are made to this section of the permit from that of the previous Tier I operating permit No.T1-2007.0041, issued 7/22/08.

**Emission Unit Group 10: Emergency Diesel Generator Engines Subject to 40 CFR 60 Subject to Subpart IIII**

**Permit Conditions 12.1 through 12.8**

A detailed regulatory analysis can be found in Appendix A of this document.

**6.3 General Provisions**

Unless expressly stated, there are no MRRR for the general provisions.

**General Compliance, Duty to Comply**

The permittee must comply with the terms and conditions of the permit.

[IDAPA 58.01.01.322.15.a, 5/1/94; 40 CFR 70.6(a)(6)(i)]

### **General Compliance, Need to Halt or Reduce Activity Not a Defense**

The permittee cannot use the fact that it would have been necessary to halt or reduce an activity as a defense in an enforcement action.

[IDAPA 58.01.01.322.15.b, 5/1/94; 40 CFR 70.6(a)(6)(ii)]

### **General Compliance, Duty to Supplement or Correct Application**

The permittee must promptly submit such supplementary facts or corrected information upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application. The permittee must also provide information as necessary to address any new requirements that become applicable after the date a complete application has been filed but prior to the release of a draft permit.

[IDAPA 58.01.01.315.01, 5/1/94; 40 CFR 70.5(b)]

### **Reopening, Additional Requirements, Material Mistakes, Etc.**

This term lists the instances when the permit must be reopened and revised, including times when additional requirements become applicable, when the permit contains mistakes, or when revision or revocation is necessary to assure compliance with applicable requirements.

[IDAPA 58.01.01.322.15.c, 5/1/94; IDAPA 58.01.01.386, 3/19/99; 40 CFR 70.7(f)(1), (2); 40 CFR 70.6(a)(6)(iii)]

### **Reopening, Permitting Actions**

This term discusses modification, revocation, reopening, and/or reissuance of the permit for cause. If the permittee files a request to modify, revoke, reissue, or terminate the permit, the request does not stay any permit condition, nor does notification of planned changes or anticipated noncompliance.

[IDAPA 58.01.01.322.15.d, 5/1/94; 40 CFR 70.6(a)(6)(iii)]

### **Property Rights**

This permit does not convey any property rights of any sort, or any exclusive privilege.

[IDAPA 58.01.01.322.15.e, 5/1/94; 40 CFR 70.6(a)(6)(iv)]

### **Information Requests**

The permittee must furnish, within a reasonable time to DEQ, any information, including records required by the permit, that is requested in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.

[Idaho Code §39-108; IDAPA 58.01.01.122, 4/5/00; IDAPA 58.01.01.322.15.f, 4/5/00; 40 CFR 70.6(a)(6)(v)]

### **Information Requests, Confidential Business Information**

Upon request, the permittee must furnish to DEQ copies of records required to be kept by this permit. For information claimed to be confidential, the permittee may furnish such records along with a claim of confidentiality in accordance with Idaho Code §9-342A and applicable implementing regulations including IDAPA 58.01.01.128.

[IDAPA 58.01.01.322.15.g, 5/1/94; IDAPA 58.01.01.128, 4/5/00; 40 CFR 70.6(a)(6)(v)]

### **Severability**

If any provision of the permit is held to be invalid, all unaffected provisions of the permit will remain in effect and enforceable.

[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]

### **Changes Requiring Permit Revision or Notice**

The permittee may not commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining all necessary permits to construct or an approval under IDAPA 58.01.01.213, or complying with IDAPA 58.01.01.220 through 223. The permittee must comply with IDAPA 58.01.01.380 through 386 as applicable.

[IDAPA 58.01.01.200-223, 4/2/08; IDAPA 58.01.01.322.15.i, 3/19/99; IDAPA 58.01.01.380-386, 7/1/02; 40 CFR 70.4(b)(12), (14), (15), and 70.7(d), (e)]

Changes that are not addressed or prohibited by the Tier I operating permit require a Tier I operating permit revision if such changes are subject to any requirement under Title IV of the CAA, 42 U.S.C. Section 7651 through 7651c, or are modifications under Title I of the CAA, 42 U.S.C. Section 7401 through 7515. Administrative amendments (IDAPA 58.01.01.381), minor permit modifications (IDAPA 58.01.01.383), and significant permit modifications (IDAPA 58.01.01.382) require a revision to the Tier I operating permit. IDAPA 58.01.01.502(b)(10) changes are authorized in accordance with IDAPA 58.01.01.384. Off permit changes and required notice are authorized in accordance with IDAPA 58.01.01.385.

[IDAPA 58.01.01.381-385, 7/1/02; IDAPA 58.01.01.209.05, 4/11/06; 40 CFR 70.4(b)(14) and (15)]

### **Federal and State Enforceability**

All permit conditions are federally enforceable unless specified in the permit as a state or local only requirement. State and local only requirements are not required under the CAA and are not enforceable by EPA or by citizens.

[IDAPA 58.01.01.322.15.j, 5/1/94; IDAPA 58.01.01.322.15.k, 3/23/98; Idaho Code §39-108; 40 CFR 70.6(b)(1), (2)]

### **Inspection and Entry**

Upon presentation of credentials, the facility shall allow DEQ or an authorized representative of DEQ to do the following:

- Enter upon the permittee's premises where a Tier I source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
- Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
- Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
- As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108; IDAPA 58.01.01.322.15.l, 5/1/94; 40 CFR 70.6(c)(2)]

### **New Applicable Requirements**

The permittee must continue to comply with all applicable requirements and must comply with new requirements on a timely basis.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.10.a.ii, 5/1/94; 40 CFR 70.6(c)(3) citing 70.5(c)(8)]

### **Fees**

The owner or operator of a Tier I source shall pay annual registration fees to DEQ in accordance with IDAPA 58.01.01.387 through IDAPA 58.01.01.397.

[IDAPA 58.01.01.387, 4/2/03; 40 CFR 70.6(a)(7)]

### **Certification**

All documents submitted to DEQ shall be certified in accordance with IDAPA 58.01.01.123 and comply with IDAPA 58.01.01.124.

[IDAPA 58.01.01.322.15.o, 5/1/94; 40 CFR 70.6(a)(3)(iii)(A); 40 CFR 70.5(d)]

### **Renewal**

The permittee shall submit an application to DEQ for a renewal of this permit at least six months before, but no earlier than 18 months before, the expiration date of this operating permit. To ensure that the

term of the operating permit does not expire before the permit is renewed, the owner or operator is encouraged to submit a renewal application nine months prior to the date of expiration.

[IDAPA 58.01.01.313.03, 4/5/00; 40 CFR 70.5(a)(1)(iii)]

If a timely and complete application for a Tier I operating permit renewal is submitted, but DEQ fails to issue or deny the renewal permit before the end of the term of this permit, then all the terms and conditions of this permit including any permit shield that may have been granted pursuant to IDAPA 58.01.01.325 shall remain in effect until the renewal permit has been issued or denied.

[IDAPA 58.01.01.322.15.p, 5/1/94; 40 CFR 70.7(b)]

### **Permit Shield**

Compliance with the terms and conditions of the Tier I operating permit, including those applicable to all alternative operating scenarios and trading scenarios, shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- Such applicable requirements are included and are specifically identified in the Tier I operating permit; or
  - DEQ has determined that other requirements specifically identified are not applicable and all of the criteria set forth in IDAPA 58.01.01.325.01(b) have been met.
- The permit shield shall apply to permit revisions made in accordance with IDAPA 58.01.01.381.04 (administrative amendments incorporating the terms of a permit to construct), IDAPA 58.01.01.382.04 (significant modifications), and IDAPA 58.01.01.384.03 (trading under an emissions cap).
- Nothing in this permit shall alter or affect the following:
  - Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers;
  - The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
  - The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a); and
  - The ability of EPA to obtain information from a source pursuant to Section 114 of the CAA; or the ability of DEQ to obtain information from a source pursuant to Idaho Code §39-108 and IDAPA 58.01.01.122.

[Idaho Code §39-108 and 112; IDAPA 58.01.01.122, 4/5/00;  
IDAPA 58.01.01.322.15.m, 325.01, 5/1/94; IDAPA 58.01.01.325.02, 3/19/99;  
IDAPA 58.01.01.381.04, 382.04, 383.05, 384.03, 385.03, 3/19/99; 40 CFR 70.6(f)]

### **Compliance Schedule and Progress Reports**

- For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.
- For each applicable requirement that will become effective during the term of this permit and that provides a detailed compliance schedule, the permittee shall comply with such requirements in accordance with the detailed schedule.
- For each applicable requirement that will become effective during the term of this permit that does not contain a more detailed schedule, the permittee shall meet such requirements on a timely basis.
- For each applicable requirement with which the permittee is in compliance, the permittee shall continue to comply with such requirements.

[IDAPA 58.01.01.322.10, 4/5/00; IDAPA 58.01.01.314.9, 5/1/94; IDAPA 58.01.01.314.10, 4/5/00;  
40 CFR 70.6(c)(3) and (4)]

### **Periodic Compliance Certification**

The permittee shall submit compliance certifications during the term of the permit for each emissions unit to DEQ and the EPA as specified.

- Compliance certifications for all emissions units shall be submitted annually unless otherwise specified;
- All original compliance certifications shall be submitted to DEQ and a copy of all compliance certifications shall be submitted to the EPA.

[IDAPA 58.01.01.322.11, 4/6/05; 40 CFR 70.6(c)(5)(iii) as amended, 62 Fed. Reg. 54900, 54946 (10/22/97); 40 CFR 70.6(c)(5)(iv)]

### **False Statements**

The permittee may not make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

### **No Tampering**

The permittee may not render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

### **Semiannual Monitoring Reports.**

In addition to all applicable reporting requirements identified in this permit, the permittee shall submit reports of any required monitoring at least every six months as specified. The permittee's semiannual reporting periods shall be from November 1 to April 30 and May 1 to October 31. All instances of deviations from this operating permit's requirements must be clearly identified in the report. The semi-annual reports shall be submitted to DEQ within 30 days of the end of the specified reporting period.

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.322.08.c, 4/5/00; 40 CFR 70.6(a)(3)(iii)]

### **Reporting Deviations and Excess Emissions**

Each and every applicable requirement, including MRRR, is subject to prompt deviation reporting. Deviations due to excess emissions must be reported in accordance Sections 130-136. All instances of deviation from Tier I operating permit requirements must be included in the deviation reports. The reports must describe the probable cause of the deviation and any corrective action or preventative measures taken. Deviation reports must be submitted at least every six months unless the permit specifies a different time period as required by IDAPA 58.01.01.322.08.c. Examples of deviations include, but are not limited to, the following:

- Any situation in which an emissions unit fails to meet a permit term or condition
- Emission control device does not meet a required operating condition
- Observations or collected data that demonstrate noncompliance with an emissions standard
- Failure to comply with a permit term that requires a report

[IDAPA 58.01.01.322.15.q, 3/23/98; IDAPA 58.01.01.135, 4/11/06; 40 CFR 70.6(a)(3)(iii)]

### **Permit Revision Not Required, Emissions Trading**

No permit revision will be required, under any approved, economic incentives, marketable permits, emissions trading, and other similar programs or processes, for changes that are provided for in the permit.

[IDAPA 58.01.01.322.05.b, 4/5/00; 40 CFR 70.6(a)(8)]

## Emergency

In accordance with IDAPA 58.01.01.332, an “emergency” as defined in IDAPA 58.01.01.008, constitutes an affirmative defense to an action brought for noncompliance with such technology-based emissions limitation if the conditions of IDAPA 58.01.01.332.02 are met.

[IDAPA 58.01.01.332.01, 4/5/00; 40 CFR 70.6(g)]

## 7. REGULATORY REVIEW

### 7.1 Attainment Designation (40 CFR 81.313)

The facility is located in Elmore County which is designated as attainment or unclassifiable for PM<sub>10</sub>, PM<sub>2.5</sub>, CO, NO<sub>2</sub>, SO<sub>2</sub>, and Ozone. Reference 40 CFR 81.313.

### 7.2 Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70)

The facility-wide emissions from this facility have a potential to emit greater than 100 tons per year for NO<sub>x</sub> and CO as demonstrated previously in the Emissions Inventory Section of this analysis. Therefore, this facility is classified as a major facility, as defined in IDAPA 58.01.01.008.10, and is subject to Tier I permitting requirements.

### 7.3 PSD Classification (40 CFR 52.21)

The facility is not a major facility as defined by 40 CFR 52.21 because it does not emit or has the potential to emit any regulated air pollutants in amount greater than 250 tons per year. In addition, the facility is not a designated facility as defined in IDAPA 58.01.01.006.30. Therefore, this facility is not subject to Prevention of Significant Deterioration (PSD) permitting requirements.

### 7.4 NSPS Applicability (40 CFR 60)

The facility has three permitted dual-fuel fired boilers, each with a rated capacity of 5.231 MMBTU/hr and also operates one permitted small dual fuel fired Hurst boiler with a rated capacity of 1.05 MMBtu/hr. In addition, the facility has 19 compression ignition IC and engines and storage tanks., the following NSPS requirements may apply to this facility:

- 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.
- 40 CFR 60, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
- 40 CFR 60, Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels
- 40 CFR 60, Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Ignition Internal Combustion Engines.
- 40 CFR 60, Subpart WWW – Emission Standards for Municiple Waste Landfill.

#### 40 CFR 60, Subpart Dc

#### Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units

§ 60.40c      Applicability and delegation of authority

(a) Except as provided in paragraphs (d), (e), (f), and (g) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c (a)(4) shall be retained by the Administrator and not transferred to a State.

(c) Steam generating units that meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO<sub>2</sub>) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (§§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in §60.41c.

In addition, Section 60.14 defines a modification as: (a) Except as provided under paragraphs (e) and (f) of this section, any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of section 111 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere. The four boilers installed at this facility have no proposed increases in emissions and are not being “modified” as a result of this Tier I permit renewal.

Therefore, Subpart Dc does not apply to the four boilers at this facility.

#### **40 CFR 60, Subpart III                      Standards of Performance for Stationary Compression Ignition Internal Combustion Engines**

The permittee shall comply with all applicable portions of 40 CFR 63, Subpart III, which are specified in Permit Conditions 12.1 through 12.8.

#### **MRRR**

The Tier I Permit Conditions 12.1 through 12.8 include monitoring, reporting and recordkeeping requirements to ensure the facility demonstrates compliance with the applicable requirements of Subpart III

The FRA form for Subpart III is included in Appendix A of this document.

#### **40 CFR 60, Subpart Kb                      Standards of Performance for Volatile Organic Liquid Storage Vessels**

Subpart Kb is not applicable to MHAFB. This subpart is addressed in Section 5.12 of this statement of basis.

#### **40 CFR 60, Subpart JJJJ                      Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines**

MHAFB operates four stationary spark ignition internal combustion engines on the flight line. These four barrier flight line engines are currently permitted (PTC No. P-060048, issued 5/14/07), and each have a rated output capacity of 65.9 horsepower.

Each of the four barrier engines were reconstructed on 11/5/2005. The effective date for owners or operators of lean-burn stationary SI ICE that commence modification or reconstruction after 6/12/2006. Therefore, section 60.4230(a)(5) of Subpart JJJJ does not apply to the four barrier flight line SI ICE.

The four barrier engines are however subject to 40 CFR 63 Subpart ZZZZ. The applicable requirements of Subpart ZZZZ are addressed in the facility-wide section of the permit. The federal regulation applicability (FRA) for for the SI ICE can be found in Appendix A of this staement of basis.

#### 7.5 NESHAP Applicability (40 CFR 61) – National Emission Standards for Hazardous Air Pollutants

The facility is not subject to a NESHAP under Part 61 at the time of permit issuance.

#### 7.6 MACT Applicability (40 CFR 63) – National Emission Standards for Hazardous Air Pollutants

Because the facility has many compression ignition IC engines powering electrical generators, a gasoline dispensing facility (for vehicle refueling), and a small dual-fuel-fired boilers, the following NESHAP requirements apply to this facility:

- 40 CFR 63, Subpart ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
- 40 CFR 63, Subpart CCCCCC - National Emissions Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities
- 40 CFR 63, Subpart JJJJJJ - National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

#### **40 CFR 60, Subpart ZZZZ                      National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines**

The permittee shall comply with all applicable portions of 40 CFR 63, Subpart ZZZZ, which are specified in Permit Conditions 2.23.1 through 2.23.13.

#### **MRRR**

The Tier I Permit Conditions 2.23.1 through 2.23.13 includes monitoring, reporting and recordkeeping requirements to ensure the MHAFB facility demonstrates compliance with the applicable requirements of Subpart ZZZZ.

See Appendix A for the Federal Requirements Applicability (FRA) form submitted by MHAFB.

#### **40 CFR 63, Subpart CCCCCC                      National Emissions Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities**

The permittee shall comply with all applicable portions of 40 CFR 63, Subpart CCCCCC, which are specified in Permit Conditions 2.24.1 through 2.24.10.

#### **MRRR**

The Tier I Permit Conditions 2.24.1 through 2.24.10 includes monitoring, reporting and recordkeeping requirements to ensure the MHAFB facility demonstrates compliance with the applicable requirements of Subpart CCCCCC.

See Appendix B for the Federal Requirements Applicability (FRA) form submitted by MHAFB.

#### **40 CFR 60, Subpart JJJJJJ**

#### **National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources**

The MACT Subpart JJJJJJ is not applicable to MHAFB. This subpart applicability to the boilers existing at the facility is addressed in Section 5.12 of this statement of basis.

#### **7.7 CAM Applicability (40 CFR 64)**

Individual permit units at facilities that are subject to Title V permitting requirements (Tier I permits) may be subject to the requirements of 40 CFR Part 64, Compliance Assurance Monitoring (CAM). 40 CFR Part 64 requires CAM for units that meet the following three criteria:

- The unit must have an emission limit for the pollutant;
- The unit must have add-on controls for the pollutant; these are devices such as flue gas recirculation (FGR), baghouses, and catalytic oxidizers; and
- The unit must have a pre-control potential to emit of greater than the major source thresholds.

MHAFB is not subject to CAM because no unit has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than 100 percent of the amount, in tons per year.

#### **7.8 Acid Rain Permit (40 CFR 72-75)**

MHAFB source is not an affected source subject to the Acid Rain Permit program in 40 CFR 72-75.

### **8. PUBLIC COMMENT**

As required by IDAPA 58.01.01.364, a public comment period was made available to the public from February 11, to March 13, 2015. During this time, comments were submitted in response to DEQ's proposed action. A response to public comments document has been crafted by DEQ based on comments submitted during the public comment period. That document is part of the final permit package for this permitting action. Please refer to Appendix C of this statement of basis for the comments received and DEQ's response to the comments.

### **9. EPA REVIEW OF PROPOSED PERMIT**

As required by IDAPA 58.01.01.366, DEQ provided the proposed permit to EPA Region 10 for its review and comment on March 16, 2015 via e-mail. Since DEQ did not hear from EPA Region 10 after the end of the 45-day comment period, DEQ is free to issue the final permit to the facility. See DEQ's TRIM Record No. 2015AAG626.

## **Appendix A**

### **FRA Forms for NESHAP Subpart ZZZZ and NSPS and Subpart III**



**DEQ AIR QUALITY PROGRAM**  
 1410 N. Hilton, Boise, ID 83706  
 For assistance, call the  
**Air Permit Hotline – 1-877-5PERMIT**

# AIR PERMIT APPLICATION

Revision 6  
 10/7/09

For each box in the table below, CTRL+click on the blue underlined text for instructions and information.

IDENTIFICATION	
1. Company Name:  US Department of Defense	2. Facility Name:  Mountain Home Air Force Base
3. Brief Project Description:      Tier I Operating Permit Renewal	
APPLICABILITY DETERMINATION	
4. List applicable subparts of the New Source Performance Standards (NSPS) ( <a href="#">40 CFR part 60</a> ).  Examples of NSPS affected emissions units include internal combustion engines, boilers, turbines, etc. The applicant must thoroughly review the list of affected emissions units.	List of applicable subpart(s): Subpart IIII – see Attachment FRA-1 for regulatory analysis  Subpart JJJJ – See Attachment FRA-2 for regulatory analysis  <input type="checkbox"/> Not Applicable
5. List applicable subpart(s) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) found in <a href="#">40 CFR part 61</a> and <a href="#">40 CFR part 63</a> .  Examples of affected emission units include solvent cleaning operations, industrial cooling towers, paint stripping and miscellaneous surface coating. <a href="#">EPA has a web page dedicated to NESHAP</a> that should be useful to applicants.	List of applicable subpart(s):  Subpart ZZZZ – see Attachment FRA-3 for regulatory analysis  <input type="checkbox"/> Not Applicable
6. For each subpart identified above, conduct a complete a regulatory analysis using the instructions and referencing the example provided on the following pages.  <b>Note</b> - Regulatory reviews must be submitted with sufficient detail so that DEQ can verify applicability and document in legal terms why the regulation applies. Regulatory reviews that are submitted with insufficient detail will be determined incomplete.	<input checked="" type="checkbox"/> A detailed regulatory review is provided (Follow instructions and example).  <input type="checkbox"/> DEQ has already been provided a detailed regulatory review. Give a reference to the document including the date.
<p><b>IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT</b></p> <p><i>It is emphasized that it is the applicant's responsibility to satisfy all technical and regulatory requirements, and that DEQ will help the applicant understand what those requirements are prior to the application being submitted but that DEQ will not perform the required technical or regulatory analysis on the applicant's behalf.</i></p>	

**Table 1 - Summary of Stationary Reciprocating Internal Combustion Engines**

<i>Emission Source</i>	<i>Building</i>	<i>Shop</i>	<i>Fuel</i>	<i>Emergency Engine (Y/N)</i>	<i>Power Rating (kW)</i>	<i>Power Rating (HP)</i>	<i>Manu. Year</i>	<i>Subpart Applicability</i>
<b>On Base Generators</b>								
IC0206	206	FIRE STATION #1	Diesel	Yes	60	80.4	2004	ZZZZ
IC0517	517	LIFT STATION 1	Diesel	Yes	25	33.5	1999	ZZZZ
IC1014	1014	SP/LE DESK	Diesel	Yes	25	33.5	2000	ZZZZ
IC1298	1298	LIFT STATION 3	Diesel	Yes	25	33.5	1999	ZZZZ
IC1302	1302	CE CONTRL/DCC	Diesel	Yes	50	67	2001	ZZZZ
IC1311	1311	Military Gas Station	Diesel	Yes	10	13.4	1999	ZZZZ
IC1402	1402	WELL #4	Diesel	Yes	300	402	2003	ZZZZ
IC1403	1403	WATER PLANT	Diesel	Yes	150	201	1999	ZZZZ
IC1413	1413	Sewage Lift #2	Diesel	Yes	25	33.5	2001	ZZZZ
IC1501	1501	COMMAND POST	Diesel	Yes	35	46.9	2004	ZZZZ
IC1819	1819	Sewage Lift #6	Diesel	Yes	25	33.5	2001	ZZZZ
IC2103	2103	WELL #2	Diesel	Yes	150	201	1998	ZZZZ
IC2192	2192	WELL #12	Diesel	Yes	500	670	1998	ZZZZ
IC2706	2706	Commissary	NG	Yes	40	53.6	1997	ZZZZ
IC2708	2708	LIFT STATION 4	Diesel	Yes	25	33.5	1998	ZZZZ
IC3240	3240	3/0 LOCALIZER	Diesel	Yes	25	33.5	1998	ZZZZ
IC3491	3491	WWTP	Diesel	Yes	1200	1608	1995	ZZZZ
IC3502	3502	GATR	Diesel	Yes	25	33.5	2004	ZZZZ
IC3503	3503	1/2 GLIDESLOPE	Diesel	Yes	25	33.5	1999	ZZZZ
IC3535	3535	3/0 GLIDESLOPE	Diesel	Yes	25	33.5	1999	ZZZZ
IC3539	3539	1/2 LOCALIZER	Diesel	Yes	25	33.5	1999	ZZZZ
IC3600	3600	CONTROL TOWER	Diesel	Yes	100	134	2003	ZZZZ
IC4799	4799	N MELLON BOOSTER	Diesel	Yes	25	33.5	2003	ZZZZ
IC4827	4827	WELL #11	Diesel	Yes	500	670	1999	ZZZZ
IC5250	5250	500K WATER TOWER	Diesel	Yes	35	46.9	1999	ZZZZ
IC6400	6400	MAIN GATE	Diesel	Yes	25	33.5	1999	ZZZZ
IC8077	8077	1M GALLON TANK	Diesel	Yes	100	134	2003	ZZZZ
IC0196.2	196	MOC	Diesel	Yes	10	13.4	2008	IIII
IC0258	258	AIR FIELD LIGHTING	Diesel	Yes	200	268	2007	IIII
IC0261	261	Weather/RAPCON	Diesel	Yes	250	335	2007	IIII
IC0265	265	POL HOT PITS	Diesel	Yes	175	234.5	2011	IIII
IC0508	508	NCC	Diesel	Yes	200	268	2008	IIII
IC0610.2	610	TELE SWITCHING	Diesel	Yes	300	402	2013	IIII
IC1317	1317	POL BULK STORG	Diesel	Yes	175	234.5	2011	IIII
IC1321	1321	POL Pumps	Diesel	Yes	60	80.4	2010	IIII
IC1333	1333	Deployment Control Center	Diesel	Yes	30	40.2	2008	IIII
IC1341.2	1341	POL Storage	Diesel	Yes	375	502.5	2012	IIII
IC1795	1795	Cowboy Control	Diesel	Yes	150	201	2010	IIII
IC2316.2	2316	DINNING FACILITY	Diesel	Yes	60	80.4	2008	IIII
IC3210	3210	GRANDVIEW GAT E	Diesel	Yes	60	80.4	2008	IIII
IC3499.2	3499	DASR	Diesel	Yes	100	134	2009	IIII
IC6000.1	6000	Hospital	Diesel	Yes	818	1096	2011	IIII
IC6000.2	6000	Hospital	Diesel	Yes	818	1096	2011	IIII
IC6300.2	6300	FIRE STN #2 ANX	Diesel	Yes	10	13.4	2012	IIII
IC6399	6399	Well #13	Diesel	Yes	350	469	2008	IIII
IC13509	13509	TACAN	Diesel	Yes	20	26.8	2008	IIII

**Table 1 - Summary of Stationary Reciprocating Internal Combustion Engines**

<i>Emission Source</i>	<i>Building</i>	<i>Shop</i>	<i>Fuel</i>	<i>Emergency Engine (Y/N)</i>	<i>Power Rating (kW)</i>	<i>Power Rating (HP)</i>	<i>Manu. Year</i>	<i>Subpart Applicability</i>
<b>Fire Pumps</b>								
IC0197.1	197	FIRESTATION	Diesel	Yes		305	2000	ZZZZ
IC0197.2	197	FIRESTATION	Diesel	Yes		305	2000	ZZZZ
IC0197.3	197	FIRESTATION	Diesel	Yes		305	2000	ZZZZ
IC0197.4	197	FIRESTATION	Diesel	Yes		305	2000	ZZZZ
IC1347.1	1347	AFFF	Diesel	Yes		305	2000	ZZZZ
IC1347.2	1347	AFFF	Diesel	Yes		305	2000	ZZZZ
IC1347.3	1347	AFFF	Diesel	Yes		305	2000	ZZZZ
IC1347.4	1347	AFFF	Diesel	Yes		305	2000	ZZZZ
<b>Flightline Barrier Engines</b>								
FBE#1	Flightline	1/2 End	Gasolin	No		65.9	13-Mar-06	ZZZZ
FBE#2	Flightline	1/2 End	Gasolin	No		65.9	13-Mar-06	ZZZZ
FBE#3	Flightline	3/0 End	Gasolin	No		65.9	15-Nov-05	ZZZZ
FBE#4	Flightline	3/0 End	Gasolin	No		65.9	15-Nov-05	ZZZZ
<b>Off-Base Generators</b>								
GR#1		Grasmere #1	Diesel	Yes	275	368.5	2005	ZZZZ
GR#2		Grasmere #2	Diesel	Yes	275	368.5	2005	ZZZZ
SC#1		Saylor Crek #1	Diesel	Yes	60	80.4	2002	ZZZZ
SC#2		Saylor Crek #2	Diesel	Yes	100	134	2003	ZZZZ
JB#1		Juniper Butte #1	Diesel	Yes	125	167.5	2000	ZZZZ
JB#2		Juniper Butte #2	Diesel	Yes	125	167.5	2000	ZZZZ
ETI.BC		Emitter site BC	LPG	No	125	167.5	2000	ZZZZ
ETI.BD		Emitter site BD	LPG	No	125	167.5	2000	ZZZZ
ETI.BE		Emitter site BE	LPG	No	125	167.5	2000	ZZZZ
ETI.BG		Emitter site BG	LPG	No	125	167.5	2000	ZZZZ
ETI.BI		Emitter site BI	LPG	No	125	167.5	2000	ZZZZ
ETI.BA		Emitter site BA	LPG	No	100	134	2014	JJJJ
ETI.BF		Emitter site BF	LPG	No	100	134	2014	JJJJ
ETI.BJ		Emitter site BJ	LPG	No	60	80.4	2012	JJJJ

**Attachment FRA-1**

**40 CFR Part 60 Subpart IIII Regulatory Analysis**

## Subpart III—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

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### WHAT THIS SUBPART COVERS

#### §60.4200 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:

- (i) 2007 or later, for engines that are not fire pump engines;
- (ii) The model year listed in Table 3 to this subpart or later model year, for fire pump engines.

(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:

- (i) Manufactured after April 1, 2006, and are not fire pump engines, or
- (ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.

(3) Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.

(4) The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

(b) The provisions of this subpart are not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.

(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.

(d) Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

(e) Owners and operators of facilities with CI ICE that are acting as temporary replacement units and that are located at a stationary source for less than 1 year and that have been properly certified as meeting the standards that would be applicable to such engine under the appropriate nonroad engine provisions, are not required to meet any other provisions under this subpart with regard to such engines.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011]

### Regulatory Analysis

**MHAFB has CI ICE that are applicable to this subpart based on the date of manufacture. Please see attached table for explanation of applicability to each subpart.**

## EMISSION STANDARDS FOR MANUFACTURERS

### **§60.4201 What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?**

(a) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt (KW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 through 2010 model year non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(c) Stationary CI internal combustion engine manufacturers must certify their 2011 model year and later non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same maximum engine power.

(d) Stationary CI internal combustion engine manufacturers must certify the following non-emergency stationary CI ICE to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2007 model year through 2012 non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder;

(2) Their 2013 model year non-emergency stationary CI ICE with a maximum engine power greater than or equal to 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and

(3) Their 2013 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.

(e) Stationary CI internal combustion engine manufacturers must certify the following non-emergency stationary CI ICE to the certification emission standards and other requirements for new

marine CI engines in 40 CFR 1042.101, 40 CFR 1042.107, 40 CFR 1042.110, 40 CFR 1042.115, 40 CFR 1042.120, and 40 CFR 1042.145, as applicable, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2013 model year non-emergency stationary CI ICE with a maximum engine power less than 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and

(2) Their 2014 model year and later non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

(f) Notwithstanding the requirements in paragraphs (a) through (c) of this section, stationary non-emergency CI ICE identified in paragraphs (a) and (c) may be certified to the provisions of 40 CFR part 94 or, if Table 1 to 40 CFR 1042.1 identifies 40 CFR part 1042 as being applicable, 40 CFR part 1042, if the engines will be used solely in either or both of the following locations:

(1) Areas of Alaska not accessible by the Federal Aid Highway System (FAHS); and

(2) Marine offshore installations.

(g) Notwithstanding the requirements in paragraphs (a) through (f) of this section, stationary CI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (e) of this section that are applicable to the model year, maximum engine power, and displacement of the reconstructed stationary CI ICE.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37967, June 28, 2011]

**Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

**§60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?**

(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 that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.

(1) For engines with a maximum engine power less than 37 KW (50 HP):

(i) 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 for model year 2007 engines, and

(ii) The certification emission standards for new nonroad CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and table 2 to this subpart, for 2008 model year and later engines.

(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.

(b) Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (b)(1) through (2) of this section.

(1) For 2007 through 2010 model years, the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.

(2) For 2011 model year and later, the certification emission standards for new nonroad CI engines for engines of the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

(c) [Reserved]

(d) Beginning with the model years in table 3 to this subpart, stationary CI internal combustion engine manufacturers must certify their fire pump stationary CI ICE to the emission standards in table 4 to this subpart, for all pollutants, for the same model year and NFPA nameplate power.

(e) Stationary CI internal combustion engine manufacturers must certify the following emergency stationary CI ICE that are not fire pump engines to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2007 model year through 2012 emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder;

(2) Their 2013 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder;

(3) Their 2013 model year emergency stationary CI ICE with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder; and

(4) Their 2014 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 2,000 KW (2,682 HP) and a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.

(f) Stationary CI internal combustion engine manufacturers must certify the following emergency stationary CI ICE to the certification emission standards and other requirements applicable to Tier 3 new marine CI engines in 40 CFR 1042.101, 40 CFR 1042.107, 40 CFR 1042.115, 40 CFR 1042.120, and 40 CFR 1042.145, for all pollutants, for the same displacement and maximum engine power:

(1) Their 2013 model year and later emergency stationary CI ICE with a maximum engine power less than 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and

(2) Their 2014 model year and later emergency stationary CI ICE with a maximum engine power less than 2,000 KW (2,682 HP) and a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.

(g) Notwithstanding the requirements in paragraphs (a) through (d) of this section, stationary emergency CI internal combustion engines identified in paragraphs (a) and (c) may be certified to the provisions of 40 CFR part 94 or, if Table 2 to 40 CFR 1042.101 identifies Tier 3 standards as being applicable, the requirements applicable to Tier 3 engines in 40 CFR part 1042, if the engines will be used solely in either or both of the following locations:

- (1) Areas of Alaska not accessible by the FAHS; and
- (2) Marine offshore installations.

(h) Notwithstanding the requirements in paragraphs (a) through (f) of this section, stationary CI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (f) of this section that are applicable to the model year, maximum engine power and displacement of the reconstructed emergency stationary CI ICE.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37968, June 28, 2011]

**Regulatory Analysis**

***MHAFB is not the manufacture; however, the CI ICE for model years 2007 and later must meet the emission standards per §60.4205(b).***

**§60.4203 How long must my engines meet the emission standards if I am a manufacturer of stationary CI internal combustion engines?**

Engines manufactured by stationary CI internal combustion engine manufacturers must meet the emission standards as required in §§60.4201 and 60.4202 during the certified emissions life of the engines.

[76 FR 37968, June 28, 2011]

**Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

**EMISSION STANDARDS FOR OWNERS AND OPERATORS**

**§60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

(a) Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1).

(b) Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.

(c) Owners and operators of non-emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder must meet the following requirements:

(1) For engines installed prior to January 1, 2012, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:

(i) 17.0 grams per kilowatt-hour (g/KW-hr) (12.7 grams per horsepower-hr (g/HP-hr)) when maximum engine speed is less than 130 revolutions per minute (rpm);

(ii)  $45 \cdot n^{-0.2}$  g/KW-hr ( $34 \cdot n^{-0.2}$  g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and

(iii) 9.8 g/KW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.

(2) For engines installed on or after January 1, 2012 and before January 1, 2016, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:

(i) 14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii)  $44 \cdot n^{-0.23}$  g/KW-hr ( $33 \cdot n^{-0.23}$  g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and

(iii) 7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.

(3) For engines installed on or after January 1, 2016, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:

(i) 3.4 g/KW-hr (2.5 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii)  $9.0 \cdot n^{-0.20}$  g/KW-hr ( $6.7 \cdot n^{-0.20}$  g/HP-hr) where n (maximum engine speed) is 130 or more but less than 2,000 rpm; and

(iii) 2.0 g/KW-hr (1.5 g/HP-hr) where maximum engine speed is greater than or equal to 2,000 rpm.

(4) Reduce particulate matter (PM) emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

(d) Owners and operators of non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the not-to-exceed (NTE) standards as indicated in §60.4212.

(e) Owners and operators of any modified or reconstructed non-emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed non-emergency stationary CI ICE that are specified in paragraphs (a) through (d) of this section.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37968, June 28, 2011]

**Regulatory Analysis**

*The CI ICE at MHAFFB are for emergency only and therefore this Subpart is not applicable.*

**§60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?**

(a) Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in Table 1 to this subpart. Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1).

**Regulatory Analysis**

***MHAFB is subject to this Subpart and must comply with emission standards in Table 1 to this subpart .***

(b) Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines 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.

**Regulatory Analysis**

***MHAFB is subject to this Subpart and must comply with emission standards in §60.4202.***

(c) Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.

**Regulatory Analysis**

***MHAFB is subject to this Subpart and must comply with emission standards in Table 4.***

(d) Owners and operators of emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder must meet the requirements in this section.

(1) For engines installed prior to January 1, 2012, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:

- (i) 17.0 g/KW-hr (12.7 g/HP-hr) when maximum engine speed is less than 130 rpm;
- (ii)  $45 \cdot n^{-0.2}$  g/KW-hr ( $34 \cdot n^{-0.2}$  g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and
- (iii) 9.8 g/kW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.

(2) For engines installed on or after January 1, 2012, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:

- (i) 14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;
- (ii)  $44 \cdot n^{-0.23}$  g/KW-hr ( $33 \cdot n^{-0.23}$  g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and
- (iii) 7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.

- (1) Limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.40 g/KW-hr (0.30 g/HP-hr).

**Regulatory Analysis**

***The displacement of all CI ICE at MHAFB is less than 30 liters and therefore this Subpart is not applicable.***

(e) Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in §60.4212.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since performance testing is not required.***

(f) Owners and operators of any modified or reconstructed emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed CI ICE that are specified in paragraphs (a) through (e) of this section.

**Regulatory Analysis**

***The engines at MHAFB are not modified or reconstructed engines and therefore this Subpart is not applicable.***

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

**§60.4206 How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?**

Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.

**Regulatory Analysis**

***MHAFB operates and maintains the IC engines in accordance with manufacturer-approved methods.***

[76 FR 37969, June 28, 2011]

## **FUEL REQUIREMENTS FOR OWNERS AND OPERATORS**

**§60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?**

(a) Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).

(b) Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.

**Regulatory Analysis**

***MHAFB operates stationary CI ICE in accordance with 40 CFR 80.510(b). Ultra Low Sulfur Diesel is used with sulfur content not to exceed 15 ppm or 0.0015% by weight.***

(c) [Reserved]

(d) Beginning June 1, 2012, owners and operators of stationary CI ICE subject to this subpart with a displacement of greater than or equal to 30 liters per cylinder are no longer subject to the requirements of paragraph (a) of this section, and must use fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm).

**Regulatory Analysis**

**All stationary CI ICE at MHAFB have displacement less than 30 liters per cylinder and therefore this Subpart is not applicable.**

(e) Stationary CI ICE that have a national security exemption under §60.4200(d) are also exempt from the fuel requirements in this section.

**Regulatory Analysis**

**MHAFB does not claim a national security exemption.**

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011; 78 FR 6695, Jan. 30, 2013]

**OTHER REQUIREMENTS FOR OWNERS AND OPERATORS****§60.4208 What is the deadline for importing or installing stationary CI ICE produced in previous model years?**

(a) After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.

(b) After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.

(c) After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.

(d) After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.

(e) After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.

(f) After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.

(g) After December 31, 2018, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 600 KW (804 HP) and less than 2,000 KW (2,680 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines.

(h) In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (g) of this section after the dates specified in paragraphs (a) through (g) of this section.

(i) The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.

**Regulatory Analysis**

***MHAFB has stationary CI ICE subject to these Subparts due to the date of installation.***

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

**§60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?**

If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.

(a) If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.

(b) If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.

**Regulatory Analysis**

***Non-resettable hour meters are installed on all emergency CI ICE.***

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

## COMPLIANCE REQUIREMENTS

**§60.4210 What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?**

(a) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of less than 10 liters per cylinder to the emission standards specified in §60.4201(a) through (c) and §60.4202(a), (b) and (d) using the certification procedures required in 40 CFR part 89, subpart B, or 40 CFR part 1039, subpart C, as applicable, and must test their engines as specified in those parts. For the purposes of this subpart, engines certified to the standards in table 1 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89. For the purposes of this subpart, engines certified to the standards in table 4 to this subpart shall be subject to the same requirements as engines certified to the standards in 40 CFR part 89, except that engines with NFPA nameplate power of less than 37 KW (50 HP) certified to model year 2011 or later standards shall be subject to the same requirements as engines certified to the standards in 40 CFR part 1039.

(b) Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder to the emission standards specified in §60.4201(d) and (e) and §60.4202(e) and (f) using the certification procedures required in 40 CFR part 94, subpart C, or 40 CFR part 1042, subpart C, as applicable, and must test their engines as specified in 40 CFR part 94 or 1042, as applicable.

(c) Stationary CI internal combustion engine manufacturers must meet the requirements of 40 CFR 1039.120, 1039.125, 1039.130, and 1039.135, and 40 CFR part 1068 for engines that are certified to the

emission standards in 40 CFR part 1039. Stationary CI internal combustion engine manufacturers must meet the corresponding provisions of 40 CFR part 89, 40 CFR part 94 or 40 CFR part 1042 for engines that would be covered by that part if they were nonroad (including marine) engines. Labels on such engines must refer to stationary engines, rather than or in addition to nonroad or marine engines, as appropriate. Stationary CI internal combustion engine manufacturers must label their engines according to paragraphs (c)(1) through (3) of this section.

(1) Stationary CI internal combustion engines manufactured from January 1, 2006 to March 31, 2006 (January 1, 2006 to June 30, 2006 for fire pump engines), other than those that are part of certified engine families under the nonroad CI engine regulations, must be labeled according to 40 CFR 1039.20.

(2) Stationary CI internal combustion engines manufactured from April 1, 2006 to December 31, 2006 (or, for fire pump engines, July 1, 2006 to December 31 of the year preceding the year listed in table 3 to this subpart) must be labeled according to paragraphs (c)(2)(i) through (iii) of this section:

(i) Stationary CI internal combustion engines that are part of certified engine families under the nonroad regulations must meet the labeling requirements for nonroad CI engines, but do not have to meet the labeling requirements in 40 CFR 1039.20.

(ii) Stationary CI internal combustion engines that meet Tier 1 requirements (or requirements for fire pumps) under this subpart, but do not meet the requirements applicable to nonroad CI engines must be labeled according to 40 CFR 1039.20. The engine manufacturer may add language to the label clarifying that the engine meets Tier 1 requirements (or requirements for fire pumps) of this subpart.

(iii) Stationary CI internal combustion engines manufactured after April 1, 2006 that do not meet Tier 1 requirements of this subpart, or fire pumps engines manufactured after July 1, 2006 that do not meet the requirements for fire pumps under this subpart, may not be used in the U.S. If any such engines are manufactured in the U.S. after April 1, 2006 (July 1, 2006 for fire pump engines), they must be exported or must be brought into compliance with the appropriate standards prior to initial operation. The export provisions of 40 CFR 1068.230 would apply to engines for export and the manufacturers must label such engines according to 40 CFR 1068.230.

(3) Stationary CI internal combustion engines manufactured after January 1, 2007 (for fire pump engines, after January 1 of the year listed in table 3 to this subpart, as applicable) must be labeled according to paragraphs (c)(3)(i) through (iii) of this section.

(i) Stationary CI internal combustion engines that meet the requirements of this subpart and the corresponding requirements for nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in 40 CFR parts 89, 94, 1039 or 1042, as appropriate.

(ii) Stationary CI internal combustion engines that meet the requirements of this subpart, but are not certified to the standards applicable to nonroad (including marine) engines of the same model year and HP must be labeled according to the provisions in 40 CFR parts 89, 94, 1039 or 1042, as appropriate, but the words "stationary" must be included instead of "nonroad" or "marine" on the label. In addition, such engines must be labeled according to 40 CFR 1039.20.

(iii) Stationary CI internal combustion engines that do not meet the requirements of this subpart must be labeled according to 40 CFR 1068.230 and must be exported under the provisions of 40 CFR 1068.230.

(d) An engine manufacturer certifying an engine family or families to standards under this subpart that are identical to standards applicable under 40 CFR parts 89, 94, 1039 or 1042 for that model year may certify any such family that contains both nonroad (including marine) and stationary engines as a

single engine family and/or may include any such family containing stationary engines in the averaging, banking and trading provisions applicable for such engines under those parts.

(e) Manufacturers of engine families discussed in paragraph (d) of this section may meet the labeling requirements referred to in paragraph (c) of this section for stationary CI ICE by either adding a separate label containing the information required in paragraph (c) of this section or by adding the words "and stationary" after the word "nonroad" or "marine," as appropriate, to the label.

(f) Starting with the model years shown in table 5 to this subpart, stationary CI internal combustion engine manufacturers must add a permanent label stating that the engine is for stationary emergency use only to each new emergency stationary CI internal combustion engine greater than or equal to 19 KW (25 HP) that meets all the emission standards for emergency engines in §60.4202 but does not meet all the emission standards for non-emergency engines in §60.4201. The label must be added according to the labeling requirements specified in 40 CFR 1039.135(b). Engine manufacturers must specify in the owner's manual that operation of emergency engines is limited to emergency operations and required maintenance and testing.

(g) Manufacturers of fire pump engines may use the test cycle in table 6 to this subpart for testing fire pump engines and may test at the NFPA certified nameplate HP, provided that the engine is labeled as "Fire Pump Applications Only".

(h) Engine manufacturers, including importers, may introduce into commerce uncertified engines or engines certified to earlier standards that were manufactured before the new or changed standards took effect until inventories are depleted, as long as such engines are part of normal inventory. For example, if the engine manufacturers' normal industry practice is to keep on hand a one-month supply of engines based on its projected sales, and a new tier of standards starts to apply for the 2009 model year, the engine manufacturer may manufacture engines based on the normal inventory requirements late in the 2008 model year, and sell those engines for installation. The engine manufacturer may not circumvent the provisions of §§60.4201 or 60.4202 by stockpiling engines that are built before new or changed standards take effect. Stockpiling of such engines beyond normal industry practice is a violation of this subpart.

(i) The replacement engine provisions of 40 CFR 89.1003(b)(7), 40 CFR 94.1103(b)(3), 40 CFR 94.1103(b)(4) and 40 CFR 1068.240 are applicable to stationary CI engines replacing existing equipment that is less than 15 years old.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

**Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

**§60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:

(1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;

(2) Change only those emission-related settings that are permitted by the manufacturer; and

(3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.

**Regulatory Analysis**

***MHAFB is subject to this Subpart. MHAFB operates and maintains CI ICE and control device according to the manufacturer's instruction.***

(b) If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.

(1) Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(5) Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.

**Regulatory Analysis**

***MHAFB demonstrates compliance according to method specified in §60.4211(b)(3) for applicable CI ICE and fire pumps.***

(c) If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.

**Regulatory Analysis**

***MHAFB has stationary CI ICE subject to this subpart. The CI ICE are EPA certified and have been installed and configured according to the manufacturer's emission-related specifications.***

(d) If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (3) of this section.

(1) Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213.

(2) Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the

Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.

- (i) Identification of the specific parameters you propose to monitor continuously;
  - (ii) A discussion of the relationship between these parameters and NO<sub>x</sub> and PM emissions, identifying how the emissions of these pollutants change with changes in these parameters, and how limitations on these parameters will serve to limit NO<sub>x</sub> and PM emissions;
  - (iii) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;
  - (iv) A discussion identifying the methods and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
  - (v) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.
- (3) For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213.

**Regulatory Analysis**

***MHAFB is not required to comply with the emission standards specified in §60.4204(c) or §60.4205(d) and therefore this Subpart is not applicable.***

(e) If you are an owner or operator of a modified or reconstructed stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(e) or §60.4205(f), you must demonstrate compliance according to one of the methods specified in paragraphs (e)(1) or (2) of this section.

- (1) Purchasing, or otherwise owning or operating, an engine certified to the emission standards in §60.4204(e) or §60.4205(f), as applicable.
- (2) Conducting a performance test to demonstrate initial compliance with the emission standards according to the requirements specified in §60.4212 or §60.4213, as appropriate. The test must be conducted within 60 days after the engine commences operation after the modification or reconstruction.

**Regulatory Analysis**

***MHAFB has no modified or reconstructed and therefore this Subpart is not applicable.***

(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.

- (1) There is no time limit on the use of emergency stationary ICE in emergency situations.

(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).

(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.

(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, 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.

(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.

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(ii) [Reserved]

**Regulatory Analysis**

***MHAFB is subject to this Subpart since the generators are for emergency use. Maintenance and testing hours of operation for each emergency generator will not exceed 100 hours per year. Operation for non-emergency use will not exceed 50 hours per year.***

(g) If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:

(1) If you are an owner or operator of a stationary CI internal combustion engine with maximum engine power less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if you do not install and configure the engine and control device according to the manufacturer's emission-related written instructions, or you change the emission-related settings in a way that is not permitted by the manufacturer, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of such action.

(2) If you are an owner or operator of a stationary CI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer.

(3) If you are an owner or operator of a stationary CI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance with the applicable emission standards within 1 year of startup, or within 1 year after an engine and control device is no longer installed, configured, operated, and maintained in accordance with the manufacturer's emission-related written instructions, or within 1 year after you change emission-related settings in a way that is not permitted by the manufacturer. You must conduct subsequent performance testing every 8,760 hours of engine operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

**Regulatory Analysis**

***The generator engines and control devices are installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions and therefore this Subpart is not applicable.***

[71 FR 39172, July 11, 2006, as amended at 76 FR 37970, June 28, 2011; 78 FR 6695, Jan. 30, 2013]

**TESTING REQUIREMENTS FOR OWNERS AND OPERATORS****§60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?**

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (e) of this section.

(a) The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.

(b) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.

(c) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112 or 40 CFR 94.8, as applicable, determined from the following equation:

$$\text{NTE requirement for each pollutant} = (1.25) \times (\text{STD}) \quad (\text{Eq. 1})$$

Where:

STD = The standard specified for that pollutant in 40 CFR 89.112 or 40 CFR 94.8, as applicable.

Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8 may follow the testing procedures specified in §60.4213 of this subpart, as appropriate.

(d) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in §60.4204(a), §60.4205(a), or §60.4205(c), determined from the equation in paragraph (c) of this section.

Where:

STD = The standard specified for that pollutant in §60.4204(a), §60.4205(a), or §60.4205(c).

Alternatively, stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) may follow the testing procedures specified in §60.4213, as appropriate.

(e) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c).

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

**Regulatory Analysis**

***MHAFB is not required to conduct performance tests and therefore is not subject to this Subpart.***

**§60.4213 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?**

Owners and operators of stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must conduct performance tests according to paragraphs (a) through (f) of this section.

(a) Each performance test must be conducted according to the requirements in §60.8 and under the specific conditions that this subpart specifies in table 7. The test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load.

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c).

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must last at least 1 hour.

(d) To determine compliance with the percent reduction requirement, you must follow the requirements as specified in paragraphs (d)(1) through (3) of this section.

(1) You must use Equation 2 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 2})$$

Where:

$C_i$  = concentration of  $\text{NO}_x$  or PM at the control device inlet,

$C_o$  = concentration of  $\text{NO}_x$  or PM at the control device outlet, and

R = percent reduction of  $\text{NO}_x$  or PM emissions.

(2) You must normalize the  $\text{NO}_x$  or PM concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen ( $\text{O}_2$ ) using Equation 3 of this section, or an equivalent percent carbon dioxide ( $\text{CO}_2$ ) using the procedures described in paragraph (d)(3) of this section.

$$C_{\text{adj}} = C_i \frac{5.9}{20.9 - \% \text{O}_2} \quad (\text{Eq. 3})$$

Where:

$C_{\text{adj}}$  = Calculated  $\text{NO}_x$  or PM concentration adjusted to 15 percent  $\text{O}_2$

$C_i$  = Measured concentration of  $\text{NO}_x$  or PM, uncorrected.

5.9 = 20.9 percent  $\text{O}_2$  - 15 percent  $\text{O}_2$ , the defined  $\text{O}_2$  correction value, percent.

$\% \text{O}_2$  = Measured  $\text{O}_2$  concentration, dry basis, percent.

(3) If pollutant concentrations are to be corrected to 15 percent  $\text{O}_2$  and  $\text{CO}_2$  concentration is measured in lieu of  $\text{O}_2$  concentration measurement, a  $\text{CO}_2$  correction factor is needed. Calculate the  $\text{CO}_2$  correction factor as described in paragraphs (d)(3)(i) through (iii) of this section.

(i) Calculate the fuel-specific  $F_o$  value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209 \times E}{F_g} \quad (\text{Eq. 4})$$

Where:

$F_o$  = Fuel factor based on the ratio of  $O_2$  volume to the ultimate  $CO_2$  volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is  $O_2$ , percent/100.

$F_g$  = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19,  $dm^3/J$  ( $dscf/10^6$  Btu).

$F_e$  = Ratio of the volume of  $CO_2$  produced to the gross calorific value of the fuel from Method 19,  $dm^3/J$  ( $dscf/10^6$  Btu).

(ii) Calculate the  $CO_2$  correction factor for correcting measurement data to 15 percent  $O_2$ , as follows:

$$X_{CO_2} = \frac{5.9}{F_o} \quad (\text{Eq. 5})$$

Where:

$X_{CO_2}$  =  $CO_2$  correction factor, percent.

5.9 = 20.9 percent  $O_2$ –15 percent  $O_2$ , the defined  $O_2$  correction value, percent.

(iii) Calculate the  $NO_x$  and PM gas concentrations adjusted to 15 percent  $O_2$  using  $CO_2$  as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 6})$$

Where:

$C_{adj}$  = Calculated  $NO_x$  or PM concentration adjusted to 15 percent  $O_2$

$C_d$  = Measured concentration of  $NO_x$  or PM, uncorrected.

$\%CO_2$  = Measured  $CO_2$  concentration, dry basis, percent.

(e) To determine compliance with the  $NO_x$  mass per unit output emission limitation, convert the concentration of  $NO_x$  in the engine exhaust using Equation 7 of this section:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{KW\text{-hour}} \quad (\text{Eq. 7})$$

Where:

ER = Emission rate in grams per KW-hour.

$C_d$  = Measured  $NO_x$  concentration in ppm.

$1.912 \times 10^{-3}$  = Conversion constant for ppm  $NO_x$  to grams per standard cubic meter at 25 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Brake work of the engine, in KW-hour.

(f) To determine compliance with the PM mass per unit output emission limitation, convert the concentration of PM in the engine exhaust using Equation 8 of this section:

$$ER = \frac{C_{adj} \times Q \times T}{KW\text{-hour}} \quad (\text{Eq. 8})$$

Where:

ER = Emission rate in grams per KW-hour.

$C_{adj}$  = Calculated PM concentration in grams per standard cubic meter.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour.

T = Time of test run, in hours.

KW-hour = Energy output of the engine, in KW.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

**Regulatory Analysis**

***The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.***

## **NOTIFICATION, REPORTS, AND RECORDS FOR OWNERS AND OPERATORS**

### **§60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?**

(a) Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.

**Regulatory Analysis**

***The engines are certified and therefore this Subpart is not applicable.***

(1) Submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (a)(1)(i) through (v) of this section.

(i) Name and address of the owner or operator;

(ii) The address of the affected source;

(iii) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(iv) Emission control equipment; and

(v) Fuel used.

(2) Keep records of the information in paragraphs (a)(2)(i) through (iv) of this section.

(i) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(ii) Maintenance conducted on the engine.

(iii) If the stationary CI internal combustion is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards.

(iv) If the stationary CI internal combustion is not a certified engine, documentation that the engine meets the emission standards.

(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

#### **Regulatory Analysis**

***All Stationary CI ICE at MHAFB are for emergency use and therefore are not required to submit an initial notification. MHAFB is subject to labeling and recordkeeping requirements for some engines based on the model years in Table 5. MHAFB is not a manufacturer of stationary CI ICE; however, MHAFB should confirm that the manufacturer has added permanent labels to the equipment listed. (see attached table for list of applicable engines)***

(c) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

#### **Regulatory Analysis**

***The stationary CI ICE are not equipped with diesel particulate filters and therefore this Subpart is not applicable.***

(d) 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.

(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 §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).

(vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §60.4211(f)(2)(ii) and (iii).

(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.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4.

### **Regulatory Analysis**

***The generators are not contractually obligated for the purposes identified in §60.4211(f)(2)(ii) and (iii) or that operates for the purposes specified in §60.4211(f)(3)(i) and therefore this Subpart is not applicable.***

[71 FR 39172, July 11, 2006, as amended at 78 FR 6696, Jan. 30, 2013]

## **SPECIAL REQUIREMENTS**

### **§60.4215 What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?**

(a) Stationary CI ICE with a displacement of less than 30 liters per cylinder that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are required to meet the applicable emission standards in §§60.4202 and 60.4205.

(b) Stationary CI ICE that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are not required to meet the fuel requirements in §60.4207.

(c) Stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder that are used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands are required to meet the following emission standards:

(1) For engines installed prior to January 1, 2012, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:

(i) 17.0 g/KW-hr (12.7 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii)  $45 \cdot n^{-0.2}$  g/KW-hr ( $34 \cdot n^{-0.2}$  g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and

(iii) 9.8 g/KW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.

(2) For engines installed on or after January 1, 2012, limit the emissions of NO<sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:

(i) 14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;

(ii)  $44 \cdot n^{-0.23}$  g/KW-hr ( $33 \cdot n^{-0.23}$  g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and

(iii) 7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.

(3) Limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.40 g/KW-hr (0.30 g/HP-hr).

[71 FR 39172, July 11, 2006, as amended at 76 FR 37971, June 28, 2011]

#### **Regulatory Analysis**

**MHAFB is located in Idaho and therefore are not subject to this Subpart.**

#### **§60.4216 What requirements must I meet for engines used in Alaska?**

(a) Prior to December 1, 2010, owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder located in areas of Alaska not accessible by the FAHS should refer to 40 CFR part 69 to determine the diesel fuel requirements applicable to such engines.

(b) Except as indicated in paragraph (c) of this section, manufacturers, owners and operators of stationary CI ICE with a displacement of less than 10 liters per cylinder located in areas of Alaska not accessible by the FAHS may meet the requirements of this subpart by manufacturing and installing engines meeting the requirements of 40 CFR parts 94 or 1042, as appropriate, rather than the otherwise applicable requirements of 40 CFR parts 89 and 1039, as indicated in sections §§60.4201(f) and 60.4202(g) of this subpart.

(c) Manufacturers, owners and operators of stationary CI ICE that are located in areas of Alaska not accessible by the FAHS may choose to meet the applicable emission standards for emergency engines in §60.4202 and §60.4205, and not those for non-emergency engines in §60.4201 and §60.4204, except that for 2014 model year and later non-emergency CI ICE, the owner or operator of any such engine that was not certified as meeting Tier 4 PM standards, must meet the applicable requirements for PM in §60.4201 and §60.4204 or install a PM emission control device that achieves PM emission reductions of 85 percent, or 60 percent for engines with a displacement of greater than or equal to 30 liters per cylinder, compared to engine-out emissions.

(d) The provisions of §60.4207 do not apply to owners and operators of pre-2014 model year stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the FAHS.

(e) The provisions of §60.4208(a) do not apply to owners and operators of stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the FAHS until after December 31, 2009.

(f) The provisions of this section and §60.4207 do not prevent owners and operators of stationary CI ICE subject to this subpart that are located in areas of Alaska not accessible by the FAHS from using fuels mixed with used lubricating oil, in volumes of up to 1.75 percent of the total fuel. The sulfur content of the used lubricating oil must be less than 200 parts per million. The used lubricating oil must meet the on-specification levels and properties for used oil in 40 CFR 279.11.

[76 FR 37971, June 28, 2011]

**Regulatory Analysis**

**MHAFB is located in Idaho and therefore are not subject to this Subpart.**

**§60.4217 What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?**

Owners and operators of stationary CI ICE that do not use diesel fuel may petition the Administrator for approval of alternative emission standards, if they can demonstrate that they use a fuel that is not the fuel on which the manufacturer of the engine certified the engine and that the engine cannot meet the applicable standards required in §60.4204 or §60.4205 using such fuels and that use of such fuel is appropriate and reasonably necessary, considering cost, energy, technical feasibility, human health and environmental, and other factors, for the operation of the engine.

[76 FR 37972, June 28, 2011]

**Regulatory Analysis**

**The engines at MHAFB do not use special fuels and therefore are not subject to this Subpart.**

**GENERAL PROVISIONS**

**§60.4218 What parts of the General Provisions apply to me?**

Table 8 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

**DEFINITIONS**

**§60.4219 What definitions apply to this subpart?**

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

*Certified emissions life* means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for certified emissions life for stationary CI ICE with a displacement of less than 10 liters per cylinder are given in 40 CFR 1039.101(g). The values for certified emissions life for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder are given in 40 CFR 94.9(a).

*Combustion turbine* means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

*Compression ignition* means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

*Date of manufacture* means one of the following things:

(1) For freshly manufactured engines and modified engines, date of manufacture means the date the engine is originally produced.

(2) For reconstructed engines, date of manufacture means the date the engine was originally produced, except as specified in paragraph (3) of this definition.

(3) Reconstructed engines are assigned a new date of manufacture if the fixed capital cost of the new and refurbished components exceeds 75 percent of the fixed capital cost of a comparable entirely new facility. An engine that is produced from a previously used engine block does not retain the date of manufacture of the engine in which the engine block was previously used if the engine is produced using all new components except for the engine block. In these cases, the date of manufacture is the date of reconstruction or the date the new engine is produced.

*Diesel fuel* means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

*Diesel particulate filter* means an emission control technology that reduces PM emissions by trapping the particles in a flow filter substrate and periodically removes the collected particles by either physical action or by oxidizing (burning off) the particles in a process called regeneration.

*Emergency stationary internal combustion engine* means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary ICE must comply with the requirements specified in §60.4211(f) in order to be considered emergency stationary ICE. If the engine does not comply with the requirements specified in §60.4211(f), then it is not considered to be an emergency stationary ICE under this subpart.

(1) The stationary ICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc.

(2) The stationary ICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in §60.4211(f).

(3) The stationary ICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in §60.4211(f)(2)(ii) or (iii) and §60.4211(f)(3)(i).

*Engine manufacturer* means the manufacturer of the engine. See the definition of "manufacturer" in this section.

*Fire pump engine* means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

*Freshly manufactured engine* means an engine that has not been placed into service. An engine becomes freshly manufactured when it is originally produced.

*Installed* means the engine is placed and secured at the location where it is intended to be operated.

*Manufacturer* has the meaning given in section 216(1) of the Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new

stationary engine into commerce in the United States. This includes importers who import stationary engines for sale or resale.

*Maximum engine power* means maximum engine power as defined in 40 CFR 1039.801.

*Model year* means the calendar year in which an engine is manufactured (see "date of manufacture"), except as follows:

(1) Model year means the annual new model production period of the engine manufacturer in which an engine is manufactured (see "date of manufacture"), if the annual new model production period is different than the calendar year and includes January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year.

(2) For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was manufactured (see "date of manufacture").

*Other internal combustion engine* means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

*Reciprocating internal combustion engine* means any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work.

*Rotary internal combustion engine* means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

*Spark ignition* means relating to a gasoline, natural gas, or liquefied petroleum gas fueled engine or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

*Stationary internal combustion engine* means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle, aircraft, or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

*Subpart* means 40 CFR part 60, subpart IIII.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37972, June 28, 2011; 78 FR 6696, Jan. 30, 2013]

**Table 1 to Subpart IIII of Part 60—Emission Standards for Stationary Pre-2007 Model Year Engines With a Displacement of <10 Liters per Cylinder and 2007-2010 Model Year Engines >2,237 KW (3,000 HP) and With a Displacement of <10 Liters per Cylinder**

[As stated in §§60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a), you must comply with the following emission standards]

Maximum engine power	<i>Emission standards for stationary pre-2007 model year engines with a displacement of &lt;10 liters per cylinder and 2007-2010 model year engines &gt;2,237 KW (3,000 HP) and with a displacement of &lt;10 liters per cylinder in g/KW-hr (g/HP-hr)</i>				
	<i>NMHC + NO<sub>x</sub></i>	<i>HC</i>	<i>NO<sub>x</sub></i>	<i>CO</i>	<i>PM</i>
KW<8 (HP<11)	10.5 (7.8)			8.0 (6.0)	1.0 (0.75)
8≤KW<19 (11≤HP<25)	9.5 (7.1)			6.6 (4.9)	0.80 (0.60)
19≤KW<37 (25≤HP<50)	9.5 (7.1)			5.5 (4.1)	0.80 (0.60)
37≤KW<56 (50≤HP<75)			9.2 (6.9)		
56≤KW<75 (75≤HP<100)			9.2 (6.9)		
75≤KW<130 (100≤HP<175)			9.2 (6.9)		
130≤KW<225 (175≤HP<300)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
225≤KW<450 (300≤HP<600)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
450≤KW≤560 (600≤HP≤750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
KW>560 (HP>750)		1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

**Regulatory Analysis**

MHAFB is subject to Table 1. Please refer to attached table for list of equipment for each section of Table 1.

**Table 2 to Subpart IIII of Part 60—Emission Standards for 2008 Model Year and Later Emergency Stationary CI ICE <37 KW (50 HP) With a Displacement of <10 Liters per Cylinder**

[As stated in §60.4202(a)(1), you must comply with the following emission standards]

Engine power	<b>Emission standards for 2008 model year and later emergency stationary CI ICE &lt;37 KW (50 HP) with a displacement of &lt;10 liters per cylinder in g/KW-hr (g/HP-hr)</b>			
	Model year(s)	NO <sub>x</sub> + NMHC	CO	PM
KW<8 (HP<11)	2008+	7.5 (5.6)	8.0 (6.0)	0.40 (0.30)
8≤KW<19 (11≤HP<25)	2008+	7.5 (5.6)	6.6 (4.9)	0.40 (0.30)
19≤KW<37 (25≤HP<50)	2008+	7.5 (5.6)	5.5 (4.1)	0.30 (0.22)

**Regulatory Analysis**

MHAFB is subject to Table 2. Please refer to attached table for list of equipment for each section of Table 2.

**Table 3 to Subpart IIII of Part 60—Certification Requirements for Stationary Fire Pump Engines**

As stated in §60.4202(d), you must certify new stationary fire pump engines beginning with the following model years:

<b>Engine power</b>	<b>Starting model year engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)<sup>1</sup></b>
KW<75 (HP<100)	2011
75≤KW<130 (100≤HP<175)	2010
130≤KW≤560 (175≤HP≤750)	2009
KW>560 (HP>750)	2008

<sup>1</sup>Manufacturers of fire pump stationary CI ICE with a maximum engine power greater than or equal to 37 kW (50 HP) and less than 450 kW (600 HP) and a rated speed of greater than 2,650 revolutions per minute (rpm) are not required to certify such engines until three model years following the model year indicated in this Table 3 for engines in the applicable engine power category.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37972, June 28, 2011]

**Regulatory Analysis**

MHAFB is not a manufacture of engines and therefore is not subject to Table 3.

**Table 4 to Subpart IIII of Part 60—Emission Standards for Stationary Fire Pump Engines**

[As stated in §§60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

<b>Maximum engine power</b>	<b>Model year(s)</b>	<b>NMHC + NO<sub>x</sub></b>	<b>CO</b>	<b>PM</b>
KW<8 (HP<11)	2010 and earlier	10.5 (7.8)	8.0 (6.0)	1.0 (0.75)
	2011+	7.5 (5.6)		0.40 (0.30)
8≤KW<19 (11≤HP<25)	2010 and earlier	9.5 (7.1)	6.6 (4.9)	0.80 (0.60)
	2011+	7.5 (5.6)		0.40 (0.30)
19≤KW<37 (25≤HP<50)	2010 and earlier	9.5 (7.1)	5.5 (4.1)	0.80 (0.60)
	2011+	7.5 (5.6)		0.30 (0.22)
37≤KW<56 (50≤HP<75)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+ <sup>1</sup>	4.7 (3.5)		0.40 (0.30)

56≤KW<75 (75≤HP<100)	2010 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2011+ <sup>1</sup>	4.7 (3.5)		0.40 (0.30)
75≤KW<130 (100≤HP<175)	2009 and earlier	10.5 (7.8)	5.0 (3.7)	0.80 (0.60)
	2010+ <sup>2</sup>	4.0 (3.0)		0.30 (0.22)
130≤KW<225 (175≤HP<300)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+ <sup>3</sup>	4.0 (3.0)		0.20 (0.15)
225≤KW<450 (300≤HP<600)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+ <sup>3</sup>	4.0 (3.0)		0.20 (0.15)
450≤KW≤560 (600≤HP≤750)	2008 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+	4.0 (3.0)		0.20 (0.15)
KW>560 (HP>750)	2007 and earlier	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+	6.4 (4.8)		0.20 (0.15)

<sup>1</sup>For model years 2011-2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

<sup>2</sup>For model years 2010-2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

<sup>3</sup>In model years 2009-2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

#### **Regulatory Analysis**

MHAFB has Fire Pump Engines that are subject to this subpart. Please refer to attached table for list of equipment for each section of Table 4.

#### **Table 5 to Subpart IIII of Part 60—Labeling and Recordkeeping Requirements for New Stationary Emergency Engines**

[You must comply with the labeling requirements in §60.4210(f) and the recordkeeping requirements in §60.4214(b) for new emergency stationary CI ICE beginning in the following model years:]

Engine power	Starting model year
19≤KW<56 (25≤HP<75)	2013
56≤KW<130 (75≤HP<175)	2012
KW≥130 (HP≥175)	2011

#### **Regulatory Analysis**

MHAFB has CI ICE subject to this subpart. Please refer to attached table for list of equipment for each section of Table 5.

**Table 6 to Subpart IIII of Part 60—Optional 3-Mode Test Cycle for Stationary Fire Pump Engines**

[As stated in §60.4210(g), manufacturers of fire pump engines may use the following test cycle for testing fire pump engines:]

Mode No.	Engine speed <sup>1</sup>	Torque (percent) <sup>2</sup>	Weighting factors
1	Rated	100	0.30
2	Rated	75	0.50
3	Rated	50	0.20

<sup>1</sup>Engine speed:  $\pm 2$  percent of point.

<sup>2</sup>Torque: NFPA certified nameplate HP for 100 percent point. All points should be  $\pm 2$  percent of engine percent load value.

**Regulatory Analysis**

MHAFFB is not a manufacture of engines and therefore is not subject to this subpart.

**Table 7 to Subpart IIII of Part 60—Requirements for Performance Tests for Stationary CI ICE With a Displacement of  $\geq 30$  Liters per Cylinder**

As stated in §60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of  $\geq 30$  liters per cylinder:

Each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary CI internal combustion engine with a displacement of $\geq 30$ liters per cylinder	a. Reduce NO <sub>x</sub> emissions by 90 percent or more;	i. Select the sampling port location and number/location of traverse points at the inlet and outlet of the control device;		(a) For NO <sub>x</sub> , O <sub>2</sub> , and moisture measurement, ducts $\leq 6$ inches in diameter may be sampled at a single point located at the duct centroid and ducts $> 6$ and $\leq 12$ inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is $> 12$ inches in diameter <i>and</i> the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A-1, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification

				testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A-4.
		ii. Measure O <sub>2</sub> at the inlet and outlet of the control device;	(1) Method 3, 3A, or 3B of 40 CFR part 60, appendix A-2	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for NO <sub>x</sub> concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and	(2) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurements for NO <sub>x</sub> concentration.
		iv. Measure NO <sub>x</sub> at the inlet and outlet of the control device.	(3) Method 7E of 40 CFR part 60, appendix A-4, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(d) NO <sub>x</sub> concentration must be at 15 percent O <sub>2</sub> dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	b. Limit the concentration of NO <sub>x</sub> in the stationary CI internal combustion engine exhaust.	i. Select the sampling port location and number/location of traverse points at the exhaust of the stationary internal combustion engine;		(a) For NO <sub>x</sub> , O <sub>2</sub> , and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A-1, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40

				CFR part 60, appendix A-4.
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location;	(1) Method 3, 3A, or 3B of 40 CFR part 60, appendix A-2	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurement for NO <sub>x</sub> concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(2) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(c) Measurements to determine moisture content must be made at the same time as the measurement for NO <sub>x</sub> concentration.
		iv. Measure NO <sub>x</sub> at the exhaust of the stationary internal combustion engine; if using a control device, the sampling site must be located at the outlet of the control device.	(3) Method 7E of 40 CFR part 60, Appendix A-4, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17)	(d) NO <sub>x</sub> concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	c. Reduce PM emissions by 60 percent or more	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A-1	(a) Sampling sites must be located at the inlet and outlet of the control device.
		ii. Measure O <sub>2</sub> at the inlet and outlet of the control device;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A-2	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content at the inlet and outlet of the control device; and	(3) Method 4 of 40 CFR part 60, appendix A-3	(c) Measurements to determine and moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the inlet and outlet of the control device.	(4) Method 5 of 40 CFR part 60, appendix A-3	(d) PM concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	d. Limit the concentration of	i. Select the sampling port location and the	(1) Method 1 or 1A of 40 CFR part 60,	(a) If using a control device, the sampling site must be

	PM in the stationary CI internal combustion engine exhaust	number of traverse points;	appendix A-1	located at the outlet of the control device.
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A-2	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for PM concentration.
		iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(3) Method 4 of 40 CFR part 60, appendix A-3	(c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration.
		iv. Measure PM at the exhaust of the stationary internal combustion engine.	(4) Method 5 of 40 CFR part 60, appendix A-3.	(d) PM concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

[79 FR 11251, Feb. 27, 2014]

**Regulatory Analysis**

All engines at MHAFB have a displacement <30 liters per cylinder and therefore this Table is not applicable.

**Table 8 to Subpart IIII of Part 60—Applicability of General Provisions to Subpart IIII**

[As stated in §60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
<u>§60.1</u>	<u>General applicability of the General Provisions</u>	<u>Yes</u>	
<u>§60.2</u>	<u>Definitions</u>	<u>Yes</u>	Additional terms defined in §60.4219.
<u>§60.3</u>	<u>Units and abbreviations</u>	<u>Yes</u>	
<u>§60.4</u>	<u>Address</u>	<u>Yes</u>	
<u>§60.5</u>	<u>Determination of construction or modification</u>	<u>Yes</u>	
<u>§60.6</u>	<u>Review of plans</u>	<u>Yes</u>	

<u>§60.7</u>	<u>Notification and Recordkeeping</u>	<u>Yes</u>	<u>Except that §60.7 only applies as specified in §60.4214(a).</u>
§60.8	Performance tests	Yes	Except that §60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
<u>§60.9</u>	<u>Availability of information</u>	<u>Yes</u>	
<u>§60.10</u>	<u>State Authority</u>	<u>Yes</u>	
§60.11	Compliance with standards and maintenance requirements	No	Requirements are specified in subpart IIII.
<u>§60.12</u>	<u>Circumvention</u>	<u>Yes</u>	
§60.13	Monitoring requirements	Yes	Except that §60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

**Regulatory Analysis**

***MHAFB has CI ICE and is subject to the General Provisions in Table 8.***

40 CFR Part 60 Subpart IIII Regulatory Analysis  
Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																										
§60.4200	<b>Am I subject to this subpart?</b>																																																																																													
§60.4200(a)	The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) and other persons as specified in paragraphs (a)(1) through (4) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.	Yes	See §60.4200(a)(2)(i) subsection explanation.	See Equipment ID listed in §60.4200(a)(2)(i)																																																																																										
§60.4200(a)(1)	Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:	No	MHAFB in not a manufacturer of ICE	N/A																																																																																										
§60.4200(a)(1)(i)	2007 or later, for engines that are not fire pump engines;	No	MHAFB in not a manufacturer of ICE	N/A																																																																																										
§60.4200(a)(1)(ii)	The model year listed in Table 3 to this subpart or later model year, for fire pump engines.	No	MHAFB in not a manufacturer of ICE	N/A																																																																																										
§60.4200(a)(2)	Owners and operators of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:	Yes	See §60.4200(a)(2)(i) subsection explanation.	See Equipment ID listed in §60.4200(a)(2)(i)																																																																																										
§60.4200(a)(2)(i)	Manufactured after April 1, 2006, and are not fire pump engines, or	Yes	The CI ICE listed under Equipment ID are subject to this subpart since they were manufactured after April 1, 2006.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">ON BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0196.2</td> <td>10 kW</td> <td>2008</td> <td>IC3499.2</td> <td>100 kW</td> <td>2009</td> </tr> <tr> <td>IC0258</td> <td>200 kW</td> <td>2007</td> <td>IC6000.1</td> <td>818 kW</td> <td>2011</td> </tr> <tr> <td>IC0261</td> <td>250 kW</td> <td>2007</td> <td>IC6000.2</td> <td>818 kW</td> <td>2011</td> </tr> <tr> <td>IC0265</td> <td>175 kW</td> <td>2011</td> <td>IC6300.2</td> <td>10 kW</td> <td>2012</td> </tr> <tr> <td>IC0508</td> <td>200 kW</td> <td>2008</td> <td>IC6399</td> <td>350 kW</td> <td>2008</td> </tr> <tr> <td>IC0610.2</td> <td>300 kW</td> <td>2013</td> <td>IC13509</td> <td>20 kW</td> <td>2008</td> </tr> <tr> <td>IC1317</td> <td>175 kW</td> <td>2011</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1321</td> <td>60 kW</td> <td>2008</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1333</td> <td>30 kW</td> <td>2010</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1341.2</td> <td>375 kW</td> <td>2012</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1795</td> <td>150 kW</td> <td>2010</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC2316.2</td> <td>60 kW</td> <td>2008</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3210</td> <td>60 kW</td> <td>2008</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ON BASE GENERATORS			ON BASE GENERATORS			Equip ID	Power	Manuf	Equip ID	Power	Manuf	IC0196.2	10 kW	2008	IC3499.2	100 kW	2009	IC0258	200 kW	2007	IC6000.1	818 kW	2011	IC0261	250 kW	2007	IC6000.2	818 kW	2011	IC0265	175 kW	2011	IC6300.2	10 kW	2012	IC0508	200 kW	2008	IC6399	350 kW	2008	IC0610.2	300 kW	2013	IC13509	20 kW	2008	IC1317	175 kW	2011				IC1321	60 kW	2008				IC1333	30 kW	2010				IC1341.2	375 kW	2012				IC1795	150 kW	2010				IC2316.2	60 kW	2008				IC3210	60 kW	2008			
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§60.4200(a)(2)(ii)	Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.	No	There are no fire pump engines at MHAFB manufactured after July 1, 2006	N/A																																																																																										
§60.4200(a)(3)	Owners and operators of any stationary CI ICE that are modified or reconstructed after July 11, 2005 and any person that modifies or reconstructs any stationary CI ICE after July 11, 2005.	No	CI ICE at MHAFB are not modified or reconstructed.	N/A																																																																																										
§60.4200(a)(4)	The provisions of §60.4208 of this subpart are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.	No	MHAFB does not have reconstructed engines.	N/A																																																																																										
§60.4200(b)	The provisions of this subpart are not applicable to stationary CI ICE being tested at a stationary CI ICE test cell/stand.	No	Stationary CI ICE at MHAFB are not being tested at a test cell/stand.	N/A																																																																																										
§60.4200(c)	If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart applicable to area sources.	No	MHAFB is required to obtain a permit under 40 CFR 70.3(a).	N/A																																																																																										
§60.4200(d)	Stationary CI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR part 89, subpart J and 40 CFR part 94, subpart J, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.	No	MHAFB does not require permit exemption for reason of national security.	N/A																																																																																										
§60.4200(e)	Owners and operators of facilities with CI ICE that are acting as temporary replacement units and that are located at a stationary source for less than 1 year and that have been properly certified as meeting the standards that would be applicable to such engine under the appropriate nonroad engine provisions, are not required to meet any other provisions under this subpart with regard to such engines.	No	The CI ICE at MHAFB are not temporary.	N/A																																																																																										
<b>EMISSION STANDARDS FOR MANUFACTURERS</b>																																																																																														
§60.4201	<b>What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?</b>	No	MHAFB in not a manufacturer of stationary CI ICE	N/A																																																																																										
§60.4201 (a)	Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later non-emergency stationary CI ICE with a maximum engine power less than or equal to 2,237 kilowatt (kW) (3,000 horsepower (HP)) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A																																																																																										

40 CFR Part 60 Subpart IIII Regulatory Analysis  
Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
§60.4201 (b)	Stationary CI internal combustion engine manufacturers must certify their 2007 through 2010 model year non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (c)	Stationary CI internal combustion engine manufacturers must certify their 2011 model year and later non-emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder to the certification emission standards for new nonroad CI engines in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same maximum engine power.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (d)	Stationary CI internal combustion engine manufacturers must certify the following non-emergency stationary CI ICE to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power:	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (d)(1)	Their 2007 model year through 2012 non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder;	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (d)(2)	Their 2013 model year non-emergency stationary CI ICE with a maximum engine power greater than or equal to 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (d)(3)	Their 2013 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (e)	Stationary CI internal combustion engine manufacturers must certify the following non-emergency stationary CI ICE to the certification emission standards and other requirements for new marine CI engines in 40 CFR 1042.101, 40 CFR 1042.107, 40 CFR 1042.110, 40 CFR 1042.115, 40 CFR 1042.120, and 40 CFR 1042.145, as applicable, for all pollutants, for the same displacement and maximum engine power.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (e)(1)	Their 2013 model year non-emergency stationary CI ICE with a maximum engine power less than 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (e)(2)	Their 2014 model year and later non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (f)	Notwithstanding the requirements in paragraphs (a) through (c) of this section, stationary non-emergency CI ICE identified in paragraphs (a) and (c) may be certified to the provisions of 40 CFR part 94 or, if Table 1 to 40 CFR 1042.1 identifies 40 CFR part 1042 as being applicable, 40 CFR part 1042, if the engines will be used solely in either or both of the following locations:	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (f)(1)	Areas of Alaska not accessible by the Federal Aid Highway System (FAHS); and	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (f)(2)	Marine offshore installations.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4201 (g)	Notwithstanding the requirements in paragraphs (a) through (f) of this section, stationary CI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (e) of this section that are applicable to the model year, maximum engine power, and displacement of the reconstructed stationary CI ICE.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202	<b>What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?</b>	No	MHAFB is not the manufacture; however, the CI ICE for model years 2007 and later must meet the emission standards per §60.4205(b).	N/A
§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 that are not fire pump engines to the emission standards specified in paragraphs (a)(1) through (2) of this section.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (a) (1)	For engines with a maximum engine power less than 37 KW (50 HP):	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (a) (1)(i)	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 for model year 2007 engines, and	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (a) (1)(ii)	The certification emission standards for new nonroad CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, 40 CFR 1039.115, and table 2 to this subpart, for 2008 model year and later engines.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A

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Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
§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.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (b)	Stationary CI internal combustion engine manufacturers must certify their 2007 model year and later emergency stationary CI ICE with a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder that are not fire pump engines to the emission standards specified in paragraphs (b)(1) through (2) of this section.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (b) (1)	For 2007 through 2010 model years, the emission standards in table 1 to this subpart, for all pollutants, for the same maximum engine power.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (b) (2)	For 2011 model year and later, the certification emission standards for new nonroad CI engines for engines of the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (c)	[Reserved]	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (d)	Beginning with the model years in table 3 to this subpart, stationary CI internal combustion engine manufacturers must certify their fire pump stationary CI ICE to the emission standards in table 4 to this subpart, for all pollutants, for the same model year and NFPA nameplate power.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (e)	Stationary CI internal combustion engine manufacturers must certify the following emergency stationary CI ICE that are not fire pump engines to the certification emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power:	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (e) (1)	Their 2007 model year through 2012 emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder;	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (e) (2)	Their 2013 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder;	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (e) (3)	Their 2013 model year emergency stationary CI ICE with a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder; and	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (e) (4)	Their 2014 model year and later emergency stationary CI ICE with a maximum engine power greater than or equal to 2,000 KW (2,682 HP) and a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (f)	Stationary CI internal combustion engine manufacturers must certify the following emergency stationary CI ICE to the certification emission standards and other requirements applicable to Tier 3 new marine CI engines in 40 CFR 1042.101, 40 CFR 1042.107, 40 CFR 1042.115, 40 CFR 1042.120, and 40 CFR 1042.145, for all pollutants, for the same displacement and maximum engine power:	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (f) (1)	Their 2013 model year and later emergency stationary CI ICE with a maximum engine power less than 3,700 KW (4,958 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 15 liters per cylinder; and	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (f) (2)	Their 2014 model year and later emergency stationary CI ICE with a maximum engine power less than 2,000 KW (2,682 HP) and a displacement of greater than or equal to 15 liters per cylinder and less than 30 liters per cylinder.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (g)	Notwithstanding the requirements in paragraphs (a) through (d) of this section, stationary emergency CI internal combustion engines identified in paragraphs (a) and (c) may be certified to the provisions of 40 CFR part 94 or, if Table 2 to 40 CFR 1042.101 identifies Tier 3 standards as being applicable, the requirements applicable to Tier 3 engines in 40 CFR part 1042, if the engines will be used solely in either or both of the following locations:	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (g) (1)	Areas of Alaska not accessible by the FAHS; and	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (g) (2)	Marine offshore installations.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4202 (h)	Notwithstanding the requirements in paragraphs (a) through (f) of this section, stationary CI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (f) of this section that are applicable to the model year, maximum engine power and displacement of the reconstructed emergency stationary CI ICE.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4203	How long must my engines meet the emission standards if I am a manufacturer of stationary CI internal combustion engines?	No	MHAFB in not a manufacturer of stationary CI ICE	N/A

**EMISSION STANDARDS FOR OWNERS AND OPERATORS**

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Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
§60.4204	<b>What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?</b>	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204(a)	Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of less than 10 liters per cylinder must comply with the emission standards in table 1 to this subpart. Owners and operators of pre-2007 model year non-emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder must comply with the emission standards in 40 CFR 94.8(a)(1).	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204(b)	Owners and operators of 2007 model year and later non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder must comply with the emission standards for new CI engines in §60.4201 for their 2007 model year and later stationary CI ICE, as applicable.	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204(c)	Owners and operators of non-emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder must meet the following requirements:	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(1)	For engines installed prior to January 1, 2012, limit the emissions of NOX in the stationary CI internal combustion engine exhaust to the following:	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(1)(i)	17.0 grams per kilowatt-hour (g/KW-hr) (12.7 grams per horsepower-hr (g/HP-hr)) when maximum engine speed is less than 130 revolutions per minute (rpm);	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(1)(ii)	$45 \cdot n - 0.2$ g/KW-hr ( $34 \cdot n - 0.2$ g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(1)(iii)	9.8 g/KW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(2)	For engines installed on or after January 1, 2012 and before January 1, 2016, limit the emissions of NOX in the stationary CI internal combustion engine exhaust to the following:	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(2)(i)	14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(2)(ii)	$44 \cdot n - 0.23$ g/KW-hr ( $33 \cdot n - 0.23$ g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(2)(iii)	7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(3)	For engines installed on or after January 1, 2016, limit the emissions of NOX in the stationary CI internal combustion engine exhaust to the following:	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(3)(i)	3.4 g/KW-hr (2.5 g/HP-hr) when maximum engine speed is less than 130 rpm;	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(3)(ii)	$9.0 \cdot n - 0.20$ g/KW-hr ( $6.7 \cdot n - 0.20$ g/HP-hr) where n (maximum engine speed) is 130 or more but less than 2,000 rpm; and	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(3)(iii)	2.0 g/KW-hr (1.5 g/HP-hr) where maximum engine speed is greater than or equal to 2,000 rpm.	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204( c)(4)	Reduce particulate matter (PM) emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204(d)	Owners and operators of non-emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the not-to-exceed (NTE) standards as indicated in §60.4212.	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4204(e)	Owners and operators of any modified or reconstructed non-emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed non-emergency stationary CI ICE that are specified in paragraphs (a) through (d) of this section.	No	MHAFB has no non-emergency CI ICE applicable to this subpart.	N/A
§60.4205	<b>What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?</b>	Yes	See §§60.4205(a)-(c) for explanation	See Equipment ID in §§60.4205(a)-(c)

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Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>					
§60.4205(a)	Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of less than 10 liters per cylinder that are not fire pump engines must comply with the emission standards in Table 1 to this subpart. Owners and operators of pre-2007 model year emergency stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards in 40 CFR 94.8(a)(1).	Yes	The CI ICE listed under Equipment ID are subject to this subpart.	ON BASE GENERATORS			ON BASE GENERATORS		
				Equip ID	Power	Manuf	Equip ID	Power	Manuf
				IC0206	60 kW	2004	IC3535	25 kW	1999
				IC0517	25 kW	1999	IC3539	25 kW	1999
				IC1014	25 kW	2000	IC3600	100 kW	2003
				IC1298	25 kW	1999	IC4799	25 kW	2003
				IC1302	50 kW	2001	IC4827	500 kW	1999
				IC1311	10 kW	1999	IC5250	35 kW	1999
				IC1402	300 kW	2003	IC6400	25 kW	1999
				IC1403	150 kW	1999	IC8077	100 kW	2003
				IC1413	25 kW	2001			
				IC1501	35 kW	2004	OFF BASE GENERATORS		
				IC1819	25 kW	2001	Equip ID	Power	Manuf
				IC2103	150 kW	1998	GR#1	275 kW	2005
				IC2192	500 kW	1998	GR#2	275 kW	2005
				IC2708	40 kW	1998	SC#1	60 kW	2002
				IC3240	25 kW	1998	SC#2	100 kW	2003
				IC3491	1200 kW	1995	JB#1	125 kW	2000
				IC3502	25 kW	2004	JB#2	125 kW	2000
				IC3503	25 kW	1999			
§60.4205(b)	Owners and operators of 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines 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.	Yes	The CI ICE listed under Equipment ID are subject to this subpart.	ON BASE GENERATORS			ON BASE GENERATORS		
				Equip ID	Power	Manuf	Equip ID	Power	Manuf
				IC0196.2	10 kW	2008	IC3499.2	100 kW	2009
				IC0258	200 kW	2007	IC6000.1	818 kW	2011
				IC0261	250 kW	2007	IC6000.2	818 kW	2011
				IC0265	175 kW	2011	IC6300.2	10 kW	2012
				IC0508	200 kW	2008	IC6399	350 kW	2008
				IC0610.2	300 kW	2013	IC13509	20 kW	2008
				IC1317	175 kW	2011			
				IC1321	60 kW	2008			
				IC1333	30 kW	2010			
				IC1341.2	375 kW	2012			
				IC1795	150 kW	2010			
				IC2316.2	60 kW	2008			
				IC3210	60 kW	2008			
§60.4205(c)	Owners and operators of fire pump engines with a displacement of less than 30 liters per cylinder must comply with the emission standards in table 4 to this subpart, for all pollutants.	Yes	The CI ICE listed under Equipment ID are subject to this subpart.	FIRE PUMPS			FIRE PUMPS		
				Equip ID	Power	Manuf	Equip ID	Power	Manuf
				IC0197.1	305 HP	2000	IC1347.1	305 HP	2000
				IC0197.2	305 HP	2000	IC1347.2	305 HP	2000
				IC0197.3	305 HP	2000	IC1347.3	305 HP	2000
				IC0197.4	305 HP	2000	IC1347.4	305 HP	2000
§60.4205(d)	Owners and operators of emergency stationary CI engines with a displacement of greater than or equal to 30 liters per cylinder must meet the requirements in this section.	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A					
§60.4205(d)(1)	For engines installed prior to January 1, 2012, limit the emissions of NO <sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A					
§60.4205(d)(1)(i)	17.0 g/KW-hr (12.7 g/HP-hr) when maximum engine speed is less than 130 rpm;	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A					
§60.4205(d)(1)(ii)	45 · n-0.2 g/KW-hr (34 · n-0.2 g/HP-hr) when maximum engine speed is 130 or more but less than 2,000 rpm, where n is maximum engine speed; and	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A					
§60.4205(d)(1)(iii)	9.8 g/KW-hr (7.3 g/HP-hr) when maximum engine speed is 2,000 rpm or more.	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A					
§60.4205(d)(2)	For engines installed on or after January 1, 2012, limit the emissions of NO <sub>x</sub> in the stationary CI internal combustion engine exhaust to the following:	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A					

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Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																										
§60.4205(d)(21)(i)	14.4 g/KW-hr (10.7 g/HP-hr) when maximum engine speed is less than 130 rpm;	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A																																										
§60.4205(d)(2)(ii)	$44 \cdot n^{-0.23}$ g/KW-hr ( $33 \cdot n^{-0.23}$ g/HP-hr) when maximum engine speed is greater than or equal to 130 but less than 2,000 rpm and where n is maximum engine speed; and	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A																																										
§60.4205(d)(2)(iii)	7.7 g/KW-hr (5.7 g/HP-hr) when maximum engine speed is greater than or equal to 2,000 rpm.	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A																																										
§60.4205(d)(3)	Limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.40 g/KW-hr (0.30 g/HP-hr).	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder	N/A																																										
§60.4205(e)	(e) Owners and operators of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in §60.4212.	No	MHAFB is not subject to this Subpart since performance testing is not required.	N/A																																										
§60.4205(d)	(f) Owners and operators of any modified or reconstructed emergency stationary CI ICE subject to this subpart must meet the emission standards applicable to the model year, maximum engine power, and displacement of the modified or reconstructed CI ICE that are specified in paragraphs (a) through (e) of this section.	No	MHAFB does not have modified or reconstructed engines and therefore this Subpart is not applicable.	N/A																																										
§60.4206	How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?	Yes	MHAFB operates and maintains the IC engines in accordance with manufacturer-approved methods.	All stationary CI ICE																																										
§60.4206	Owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.	Yes	MHAFB operates and maintains the IC engines in accordance with manufacturer-approved methods.	All stationary CI ICE																																										
<b>FUEL REQUIREMENTS FOR OWNERS AND OPERATORS</b>																																														
§60.4207	What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?	Yes	See subsections §60.4207(a)-(e)	See subsections §60.4207(a)-(e)																																										
§60.4207(a)	Beginning October 1, 2007, owners and operators of stationary CI ICE subject to this subpart that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a).	No	MHAFB operates stationary CI ICE in accordance with 40 CFR 80.510(b). Ultra Low Sulfur Diesel is used with sulfur content not to exceed 15 ppm or 0.0015% by weight.	N/A																																										
§60.4207(b)	Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel, except that any existing diesel fuel purchased (or otherwise obtained) prior to October 1, 2010, may be used until depleted.	Yes	MHAFB operates stationary CI ICE in accordance with 40 CFR 80.510(b). Ultra Low Sulfur Diesel is used with sulfur content not to exceed 15 ppm or 0.0015% by weight.	All stationary CI ICE																																										
§60.4207(c)	[Reserved]	No	N/A	N/A																																										
§60.4207(d)	Beginning June 1, 2012, owners and operators of stationary CI ICE subject to this subpart with a displacement of greater than or equal to 30 liters per cylinder are no longer subject to the requirements of paragraph (a) of this section, and must use fuel that meets a maximum per-gallon sulfur content of 1,000 parts per million (ppm).	No	All stationary CI ICE at MHAFB have displacement less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A																																										
§60.4207(e)	Stationary CI ICE that have a national security exemption under §60.4200(d) are also exempt from the fuel requirements in this section.	No	MHAFB does not claim national security exemption	N/A																																										
<b>OTHER REQUIREMENTS FOR OWNERS AND OPERATORS</b>																																														
§60.4208	What is the deadline for importing or installing stationary CI ICE produced in previous model years?	Yes	See §60.4208(a) for explanation	See §60.4208(a) for Equipment ID																																										
§60.4208(a)	After December 31, 2008, owners and operators may not install stationary CI ICE (excluding fire pump engines) that do not meet the applicable requirements for 2007 model year engines.	Yes	The CI ICE listed under Equipment ID are subject to this subpart.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">ON BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0610.2</td> <td>300 kW</td> <td>2013</td> <td>IC6000.1</td> <td>818 kW</td> <td>2011</td> </tr> <tr> <td>IC1341.2</td> <td>375 kW</td> <td>2012</td> <td>IC6000.2</td> <td>818 kW</td> <td>2011</td> </tr> <tr> <td>IC1795</td> <td>150 kW</td> <td>2010</td> <td>IC6300.2</td> <td>10 kW</td> <td>2012</td> </tr> <tr> <td>IC3499.2</td> <td>100 kW</td> <td>2009</td> <td>IC6399</td> <td>350 kW</td> <td>2008</td> </tr> <tr> <td></td> <td></td> <td></td> <td>IC13509</td> <td>20 kW</td> <td>2008</td> </tr> </tbody> </table>	ON BASE GENERATORS			ON BASE GENERATORS			Equip ID	Power	Manuf	Equip ID	Power	Manuf	IC0610.2	300 kW	2013	IC6000.1	818 kW	2011	IC1341.2	375 kW	2012	IC6000.2	818 kW	2011	IC1795	150 kW	2010	IC6300.2	10 kW	2012	IC3499.2	100 kW	2009	IC6399	350 kW	2008				IC13509	20 kW	2008
ON BASE GENERATORS			ON BASE GENERATORS																																											
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IC3499.2	100 kW	2009	IC6399	350 kW	2008																																									
			IC13509	20 kW	2008																																									
§60.4208(b)	After December 31, 2009, owners and operators may not install stationary CI ICE with a maximum engine power of less than 19 KW (25 HP) (excluding fire pump engines) that do not meet the applicable requirements for 2008 model year engines.	Yes	The CI ICE listed under Equipment ID are subject to this subpart.	<table border="1"> <thead> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC6300.2</td> <td>10 kW</td> <td>2012</td> </tr> </tbody> </table>	Equip ID	Power	Manuf	IC6300.2	10 kW	2012																																				
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Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
§60.4208(c)	After December 31, 2014, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 19 KW (25 HP) and less than 56 KW (75 HP) that do not meet the applicable requirements for 2013 model year non-emergency engines.	No	All stationary CI ICE at MHAFB are for emergency backup.	N/A
§60.4208(d)	After December 31, 2013, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 56 KW (75 HP) and less than 130 KW (175 HP) that do not meet the applicable requirements for 2012 model year non-emergency engines.	No	All stationary CI ICE at MHAFB are for emergency backup.	N/A
§60.4208(e)	After December 31, 2012, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 130 KW (175 HP), including those above 560 KW (750 HP), that do not meet the applicable requirements for 2011 model year non-emergency engines.	No	All stationary CI ICE at MHAFB are for emergency backup.	N/A
§60.4208(f)	After December 31, 2016, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power of greater than or equal to 560 KW (750 HP) that do not meet the applicable requirements for 2015 model year non-emergency engines.	No	All stationary CI ICE at MHAFB are for emergency backup.	N/A
§60.4208(g)	After December 31, 2018, owners and operators may not install non-emergency stationary CI ICE with a maximum engine power greater than or equal to 600 KW (804 HP) and less than 2,000 KW (2,680 HP) and a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder that do not meet the applicable requirements for 2017 model year non-emergency engines.	No	All stationary CI ICE at MHAFB are for emergency backup.	N/A
§60.4208(h)	In addition to the requirements specified in §§60.4201, 60.4202, 60.4204, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs (a) through (g) of this section after the dates specified in paragraphs (a) through (g) of this section.	Yes	All listed Equipment meets applicable requirements.	N/A
§60.4208(i)	The requirements of this section do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.	No	MHAFB does not have modified or reconstructed engines and therefore this Subpart is not applicable.	N/A
§60.4209	<b>What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?</b> If you are an owner or operator, you must meet the monitoring requirements of this section. In addition, you must also meet the monitoring requirements specified in §60.4211.	Yes	See §60.4209(a) explanation.	N/A
§60.4209(a)	If you are an owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter prior to startup of the engine.	Yes	All emergency CI ICE are equipped with non-resettable hour meters.	All Stationary CI ICE
§60.4209(b)	If you are an owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in §60.4204, the diesel particulate filter must be installed with a backpressure monitor that notifies the owner or operator when the high backpressure limit of the engine is approached.	No	CI ICE at MHAFB are not equipped with particulate filters.	N/A
<b>COMPLIANCE REQUIREMENTS</b>				
§60.4210	<b>What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?</b>	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(a)	Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of less than 10 liters per cylinder ...	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(b)	Stationary CI internal combustion engine manufacturers must certify their stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder...	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(c)-(1)-(3)	Stationary CI internal combustion engine manufacturers must meet the requirements of 40 CFR 1039.120, 1039.125, 1039.130, and 1039.135, and 40 CFR part 1068 for engines ...	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(d)	An engine manufacturer certifying an engine family or families to standards under this subpart that are identical to standards...	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(e)	Manufacturers of engine families discussed in paragraph (d) of this section may meet the labeling requirements referred ...	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(f)	(f) Starting with the model years shown in table 5 to this subpart, stationary CI internal combustion engine manufacturers must add a permanent label stating that the engine is for stationary emergency use only to each new emergency stationary CI internal combustion engine greater than or equal to 19 KW (25 HP) that meets all the emission standards for emergency engines in §60.4202 but does not meet all the emission standards for non-emergency engines in §60.4201. The label must be added according to the labeling requirements specified in 40 CFR 1039.135(b). Engine manufacturers must specify in the owner's manual that operation of emergency engines is limited to emergency operations and required maintenance and testing.	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(g)	Manufacturers of fire pump engines may use the test cycle in table 6 to this subpart for testing fire pump engines and may test at ...	No	MHAFB in not a manufacturer of stationary CI ICE	N/A
§60.4210(h)	Engine manufacturers, including importers, may introduce into commerce uncertified engines or engines certified to earlier standards ...	No	MHAFB in not a manufacturer of stationary CI ICE	N/A

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Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																																																																																																								
§60.4210(i)	The replacement engine provisions of 40 CFR 89.1003(b)(7), 40 CFR 94.1103(b)(3), 40 CFR 94.1103(b)(4) and 40 CFR 1068.240 are applicable ...	No	MHAFB is not a manufacturer of stationary CI ICE	N/A																																																																																																																																																																								
§60.4211	What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?	Yes	MHAFB is an owner and operator of stationary CI ICE and therefore is subject to this subpart	All stationary CI ICE																																																																																																																																																																								
§60.4211(a)	If you are an owner or operator and must comply with the emission standards specified in this subpart, you must do all of the following, except as permitted under paragraph (g) of this section:	Yes	MHAFB is an owner and operator of stationary CI ICE and therefore is subject to this subpart	All stationary CI ICE																																																																																																																																																																								
§60.4211(a)(1)	Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;	Yes	MHAFB is an owner and operator of stationary CI ICE and therefore is subject to this subpart	All stationary CI ICE																																																																																																																																																																								
§60.4211(a)(2)	Change only those emission-related settings that are permitted by the manufacturer; and	Yes	MHAFB is an owner and operator of stationary CI ICE and therefore is subject to this subpart	All stationary CI ICE																																																																																																																																																																								
§60.4211(a)(3)	Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to you.	Yes	MHAFB is an owner and operator of stationary CI ICE and therefore is subject to this subpart	All stationary CI ICE																																																																																																																																																																								
§60.4211(b)	If you are an owner or operator of a pre-2007 model year stationary CI internal combustion engine and must comply with the emission standards specified in §§60.4204(a) or 60.4205(a), or if you are an owner or operator of a CI fire pump engine that is manufactured prior to the model years in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) through (5) of this section.	Yes	The CI ICE and CI fire pump engines listed under Equipment ID are subject to this subpart.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0206</td> <td>60 kW</td> <td>2004</td> <td>GR#1</td> <td>275 kW</td> <td>2005</td> </tr> <tr> <td>IC0517</td> <td>25 kW</td> <td>1999</td> <td>GR#2</td> <td>275 kW</td> <td>2005</td> </tr> <tr> <td>IC1014</td> <td>25 kW</td> <td>2000</td> <td>SC#1</td> <td>60 kW</td> <td>2002</td> </tr> <tr> <td>IC1298</td> <td>25 kW</td> <td>1999</td> <td>SC#2</td> <td>100 kW</td> <td>2003</td> </tr> <tr> <td>IC1302</td> <td>50 kW</td> <td>2001</td> <td>JB#1</td> <td>125 kW</td> <td>2000</td> </tr> <tr> <td>IC1311</td> <td>10 kW</td> <td>1999</td> <td>JB#2</td> <td>125 kW</td> <td>2000</td> </tr> <tr> <td>IC1402</td> <td>300 kW</td> <td>2003</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1403</td> <td>150 kW</td> <td>1999</td> <td colspan="3">FIRE PUMPS</td> </tr> <tr> <td>IC1413</td> <td>25 kW</td> <td>2001</td> <td>Equip ID</td> <td>Power</td> <td>Manuf</td> </tr> <tr> <td>IC1501</td> <td>35 kW</td> <td>2004</td> <td>IC0197.1</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC1819</td> <td>25 kW</td> <td>2001</td> <td>IC0197.2</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC2103</td> <td>150 kW</td> <td>1998</td> <td>IC0197.3</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC2192</td> <td>500 kW</td> <td>1998</td> <td>IC0197.4</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC2708</td> <td>40 kW</td> <td>1998</td> <td>IC1347.1</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC3240</td> <td>25 kW</td> <td>1998</td> <td>IC1347.2</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC3491</td> <td>1200 kW</td> <td>1995</td> <td>IC1347.3</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC3502</td> <td>25 kW</td> <td>2004</td> <td>IC1347.4</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC3503</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3535</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3539</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3600</td> <td>100 kW</td> <td>2003</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC4799</td> <td>25 kW</td> <td>2003</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC4827</td> <td>500 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC5250</td> <td>35 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC6400</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC8077</td> <td>100 kW</td> <td>2003</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ON BASE GENERATORS			OFF BASE GENERATORS			Equip ID	Power	Manuf	Equip ID	Power	Manuf	IC0206	60 kW	2004	GR#1	275 kW	2005	IC0517	25 kW	1999	GR#2	275 kW	2005	IC1014	25 kW	2000	SC#1	60 kW	2002	IC1298	25 kW	1999	SC#2	100 kW	2003	IC1302	50 kW	2001	JB#1	125 kW	2000	IC1311	10 kW	1999	JB#2	125 kW	2000	IC1402	300 kW	2003				IC1403	150 kW	1999	FIRE PUMPS			IC1413	25 kW	2001	Equip ID	Power	Manuf	IC1501	35 kW	2004	IC0197.1	305 HP	2000	IC1819	25 kW	2001	IC0197.2	305 HP	2000	IC2103	150 kW	1998	IC0197.3	305 HP	2000	IC2192	500 kW	1998	IC0197.4	305 HP	2000	IC2708	40 kW	1998	IC1347.1	305 HP	2000	IC3240	25 kW	1998	IC1347.2	305 HP	2000	IC3491	1200 kW	1995	IC1347.3	305 HP	2000	IC3502	25 kW	2004	IC1347.4	305 HP	2000	IC3503	25 kW	1999				IC3535	25 kW	1999				IC3539	25 kW	1999				IC3600	100 kW	2003				IC4799	25 kW	2003				IC4827	500 kW	1999				IC5250	35 kW	1999				IC6400	25 kW	1999				IC8077	100 kW	2003			
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§60.4211(b)(1)	Purchasing an engine certified according to 40 CFR part 89 or 40 CFR part 94, as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.	No	MHAFB demonstrates compliance according to method specified in §60.4211(b)(3).	N/A																																																																																																																																																																								
§60.4211(b)(2)	Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.	No	MHAFB demonstrates compliance according to method specified in §60.4211(b)(3).	N/A																																																																																																																																																																								

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§60.4211(b)(3)	Keeping records of engine manufacturer data indicating compliance with the standards.	Yes	MHAFB demonstrates compliance according to method specified in §60.4211(b)(3).	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0206</td> <td>60 kW</td> <td>2004</td> <td>GR#1</td> <td>275 kW</td> <td>2005</td> </tr> <tr> <td>IC0517</td> <td>25 kW</td> <td>1999</td> <td>GR#2</td> <td>275 kW</td> <td>2005</td> </tr> <tr> <td>IC1014</td> <td>25 kW</td> <td>2000</td> <td>SC#1</td> <td>60 kW</td> <td>2002</td> </tr> <tr> <td>IC1298</td> <td>25 kW</td> <td>1999</td> <td>SC#2</td> <td>100 kW</td> <td>2003</td> </tr> <tr> <td>IC1302</td> <td>50 kW</td> <td>2001</td> <td>JB#1</td> <td>125 kW</td> <td>2000</td> </tr> <tr> <td>IC1311</td> <td>10 kW</td> <td>1999</td> <td>JB#2</td> <td>125 kW</td> <td>2000</td> </tr> <tr> <td>IC1402</td> <td>300 kW</td> <td>2003</td> <td colspan="3">FIRE PUMPS</td> </tr> <tr> <td>IC1403</td> <td>150 kW</td> <td>1999</td> <td>Equip ID</td> <td>Power</td> <td>Manuf</td> </tr> <tr> <td>IC1413</td> <td>25 kW</td> <td>2001</td> <td>IC0197.1</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC1501</td> <td>35 kW</td> <td>2004</td> <td>IC0197.2</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC1819</td> <td>25 kW</td> <td>2001</td> <td>IC0197.3</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC2103</td> <td>150 kW</td> <td>1998</td> <td>IC0197.4</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC2192</td> <td>500 kW</td> <td>1998</td> <td>IC1347.1</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC2708</td> <td>40 kW</td> <td>1998</td> <td>IC1347.2</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC3240</td> <td>25 kW</td> <td>1998</td> <td>IC1347.3</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC3491</td> <td>1200 kW</td> <td>1995</td> <td>IC1347.4</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC3502</td> <td>25 kW</td> <td>2004</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3503</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3535</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3539</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3600</td> <td>100 kW</td> <td>2003</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC4799</td> <td>25 kW</td> <td>2003</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC4827</td> <td>500 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC5250</td> <td>35 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC6400</td> <td>25 kW</td> <td>1999</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC8077</td> <td>100 kW</td> <td>2003</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ON BASE GENERATORS			OFF BASE GENERATORS			Equip ID	Power	Manuf	Equip ID	Power	Manuf	IC0206	60 kW	2004	GR#1	275 kW	2005	IC0517	25 kW	1999	GR#2	275 kW	2005	IC1014	25 kW	2000	SC#1	60 kW	2002	IC1298	25 kW	1999	SC#2	100 kW	2003	IC1302	50 kW	2001	JB#1	125 kW	2000	IC1311	10 kW	1999	JB#2	125 kW	2000	IC1402	300 kW	2003	FIRE PUMPS			IC1403	150 kW	1999	Equip ID	Power	Manuf	IC1413	25 kW	2001	IC0197.1	305 HP	2000	IC1501	35 kW	2004	IC0197.2	305 HP	2000	IC1819	25 kW	2001	IC0197.3	305 HP	2000	IC2103	150 kW	1998	IC0197.4	305 HP	2000	IC2192	500 kW	1998	IC1347.1	305 HP	2000	IC2708	40 kW	1998	IC1347.2	305 HP	2000	IC3240	25 kW	1998	IC1347.3	305 HP	2000	IC3491	1200 kW	1995	IC1347.4	305 HP	2000	IC3502	25 kW	2004				IC3503	25 kW	1999				IC3535	25 kW	1999				IC3539	25 kW	1999				IC3600	100 kW	2003				IC4799	25 kW	2003				IC4827	500 kW	1999				IC5250	35 kW	1999				IC6400	25 kW	1999				IC8077	100 kW	2003			
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IC1819	25 kW	2001	IC0197.3	305 HP	2000																																																																																																																																																																							
IC2103	150 kW	1998	IC0197.4	305 HP	2000																																																																																																																																																																							
IC2192	500 kW	1998	IC1347.1	305 HP	2000																																																																																																																																																																							
IC2708	40 kW	1998	IC1347.2	305 HP	2000																																																																																																																																																																							
IC3240	25 kW	1998	IC1347.3	305 HP	2000																																																																																																																																																																							
IC3491	1200 kW	1995	IC1347.4	305 HP	2000																																																																																																																																																																							
IC3502	25 kW	2004																																																																																																																																																																										
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IC4827	500 kW	1999																																																																																																																																																																										
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IC8077	100 kW	2003																																																																																																																																																																										
§60.4211(b)(4)	Keeping records of control device vendor data indicating compliance with the standards.	No	MHAFB demonstrates compliance according to method specified in §60.4211(b)(3).	N/A																																																																																																																																																																								
§60.4211(b)(5)	Conducting an initial performance test to demonstrate compliance with the emission standards according to the requirements specified in §60.4212, as applicable.	No	MHAFB demonstrates compliance according to method specified in §60.4211(b)(3).	N/A																																																																																																																																																																								
§60.4211(c)	If you are an owner or operator of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), you must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications, except as permitted in paragraph (g) of this section.	Yes	MHAFB has stationary CI ICE subject to this subpart. The CI ICE are EPA certified and have been installed and configured according to the manufacturer's emission-related specifications.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">ON BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0196.2</td> <td>10 kW</td> <td>2008</td> <td>IC1795</td> <td>150 kW</td> <td>2010</td> </tr> <tr> <td>IC0258</td> <td>200 kW</td> <td>2007</td> <td>IC2316.2</td> <td>60 kW</td> <td>2008</td> </tr> <tr> <td>IC0261</td> <td>250 kW</td> <td>2007</td> <td>IC3210</td> <td>60 kW</td> <td>2008</td> </tr> <tr> <td>IC0265</td> <td>175 kW</td> <td>2011</td> <td>IC3499.2</td> <td>100 kW</td> <td>2009</td> </tr> <tr> <td>IC0508</td> <td>200 kW</td> <td>2008</td> <td>IC6000.1</td> <td>818 kW</td> <td>2011</td> </tr> <tr> <td>IC0610.2</td> <td>300 kW</td> <td>2013</td> <td>IC6000.2</td> <td>818 kW</td> <td>2011</td> </tr> <tr> <td>IC1317</td> <td>175 kW</td> <td>2011</td> <td>IC6300.2</td> <td>10 kW</td> <td>2012</td> </tr> <tr> <td>IC1321</td> <td>60 kW</td> <td>2008</td> <td>IC6399</td> <td>350 kW</td> <td>2008</td> </tr> <tr> <td>IC1333</td> <td>30 kW</td> <td>2010</td> <td>IC13509</td> <td>20 kW</td> <td>2008</td> </tr> <tr> <td>IC1341.2</td> <td>375 kW</td> <td>2012</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ON BASE GENERATORS			ON BASE GENERATORS			Equip ID	Power	Manuf	Equip ID	Power	Manuf	IC0196.2	10 kW	2008	IC1795	150 kW	2010	IC0258	200 kW	2007	IC2316.2	60 kW	2008	IC0261	250 kW	2007	IC3210	60 kW	2008	IC0265	175 kW	2011	IC3499.2	100 kW	2009	IC0508	200 kW	2008	IC6000.1	818 kW	2011	IC0610.2	300 kW	2013	IC6000.2	818 kW	2011	IC1317	175 kW	2011	IC6300.2	10 kW	2012	IC1321	60 kW	2008	IC6399	350 kW	2008	IC1333	30 kW	2010	IC13509	20 kW	2008	IC1341.2	375 kW	2012																																																																																																			
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§60.4211(d)	If you are an owner or operator and must comply with the emission standards specified in §60.4204(c) or §60.4205(d), you must demonstrate compliance according to the requirements specified in paragraphs (d)(1) through (3) of this section.	No	MHAFB has no non-emergency engines applicable to this subpart.	N/A																																																																																																																																																																								
§60.4211(d)(1)	Conducting an initial performance test to demonstrate initial compliance with the emission standards as specified in §60.4213.	No	MHAFB has no non-emergency engines applicable to this subpart.	N/A																																																																																																																																																																								
§60.4211(d)(2)(i)-(v)	Establishing operating parameters to be monitored continuously to ensure the stationary internal combustion engine continues to meet the emission standards. The owner or operator must petition the Administrator for approval of operating parameters to be monitored continuously. The petition must include the information described in paragraphs (d)(2)(i) through (v) of this section.	No	MHAFB has no non-emergency engines applicable to this subpart.	N/A																																																																																																																																																																								
§60.4211(d)(3)	For non-emergency engines with a displacement of greater than or equal to 30 liters per cylinder, conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in §60.4213.	No	MHAFB has no non-emergency engines applicable to this subpart.	N/A																																																																																																																																																																								

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Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
§60.4211(e)(1)-(2)	If you are an owner or operator of a modified or reconstructed stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(e) or §60.4205(f), you must demonstrate compliance according to one of the methods specified in paragraphs (e)(1) or (2) of this section.	No	MHAFB has no modified or reconstructed and therefore this Subpart is not applicable.	N/A
§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.	Yes	MHAFB is subject to this Subpart since the generators are for emergency use.	All stationary CI ICE
§60.4211(f)(1)	There is no time limit on the use of emergency stationary ICE in emergency situations.	Yes	MHAFB is subject to this Subpart since the generators are for emergency use.	All stationary CI ICE
§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).	Yes	MHAFB is subject to this Subpart since the generators are for emergency use.	All stationary CI ICE
§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.	Yes	MHAFB is subject to this Subpart since the generators are for emergency use.	All stationary CI ICE
§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, 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.	No	MHAFB does not have sources that meet this criterion.	N/A
§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.	No	MHAFB does not have sources that meet this criterion.	N/A
§60.4211(f)(3)	Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraph (f)(3)(i) of this section, the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.	Yes	MHAFB is subject to this Subpart since the generators are for emergency use.	All stationary CI ICE
§60.4211(f)(3)(i)(A)-(E)	The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:	No	MHAFB does not supply power as part of a financial arrangement with another entity.	N/A
§60.4211(f)(3)(ii)	[Reserved]	No	N/A	N/A
§60.4211(g)(1)-(3)	If you do not install, configure, operate, and maintain your engine and control device according to the manufacturer's emission-related written instructions, or you change emission-related settings in a way that is not permitted by the manufacturer, you must demonstrate compliance as follows:	No	The engines and control devices are installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions and therefore this Subpart is not applicable.	N/A
<b>TESTING REQUIREMENT FOR OWNERS AND OPERATORS</b>				
§60.4212	What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder? Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart must do so according to paragraphs (a) through (e) of this section.	No	MHAFB is not required to conduct performance tests	N/A

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§60.4212(a)	The performance test must be conducted according to the in-use testing procedures in 40 CFR part 1039, subpart F, for stationary CI ICE with a displacement of less than 10 liters per cylinder, and according to 40 CFR part 1042, subpart F, for stationary CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder.	No	MHAFB is not required to conduct performance tests	N/A
§60.4212(b)	Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 40 CFR 1039.102(g)(1), except as specified in 40 CFR 1039.104(d). This requirement starts when NTE requirements take effect for nonroad diesel engines under 40 CFR part 1039.	No	MHAFB is not required to conduct performance tests	N/A
§60.4212(c)	Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 40 CFR 94.8, as applicable, must not exceed the NTE numerical requirements...	No	MHAFB is not required to conduct performance tests	N/A
§60.4212(d)	Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in §60.4204(a), §60.4205(a), or §60.4205(c) must not exceed the NTE numerical...	No	MHAFB is not required to conduct performance tests	N/A
§60.4212(e)	Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR part 1042 must not exceed the NTE standards for the same model year and maximum engine power as required in 40 CFR 1042.101(c).	No	MHAFB is not required to conduct performance tests	N/A
§60.4213	<b>What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?</b>	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A
§60.4213	Owners and operators of stationary CI ICE with a displacement of greater than or equal to 30 liters per cylinder must conduct performance tests according to paragraphs (a) through (f) of this section.	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A
§60.4213(a)	Each performance test must be conducted according to the requirements in §60.8 and under the specific conditions that this subpart specifies in table 7. The test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load.	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A
§60.4213(b)	You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c).	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A
§60.4213(c)	You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must last at least 1 hour.	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A
§60.4213(d)(1)-(3)	To determine compliance with the percent reduction requirement, you must follow the requirements as specified in paragraphs (d)(1) through (3) of this section.	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A
§60.4213(e)	To determine compliance with the NOX mass per unit output emission limitation, convert the concentration of NOX in the engine exhaust using Equation 7 of this section:	No	The displacement on all CI ICE at MHAFB is less than 30 liters per cylinder and therefore this Subpart is not applicable.	N/A
<b>NOTIFICATION, REPORTS, AND RECORDS FOR OWNERS AND OPERATORS</b>				
§60.4214	<b>What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?</b>	Yes	See §60.4214(b)	See §60.4214(b)
§60.4214(a)(1)-(2)	(a) Owners and operators of non-emergency stationary CI ICE that are greater than 2,237 KW (3,000 HP), or have a displacement of greater than or equal to 10 liters per cylinder, or are pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified, must meet the requirements of paragraphs (a)(1) and (2) of this section.	No	MHAFB has no non-emergency engines applicable to this subpart.	N/A

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§60.4214(b)	(b) If the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner or operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.	Yes	All Stationary CI ICE at MHAFB are for emergency use and therefore are not required to submit an initial notification. MHAFB is subject to labeling and recordkeeping requirements for the Equipment listed based on the model years in Table 5. MHAFB is not a manufacturer of stationary CI ICE; however, MHAFB should confirm that the manufacturer has added permanent labels to the equipment listed.	Equip ID	Power	Manuf				
				IC6000.1	818kW	2011				
				IC6000.2	818kW	2011				
				IC1341.2	375kW	2012				
				IC0610.2	300kW	2012				
§60.4214(c)	(c) If the stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.	No	The stationary CI ICE are not equipped with diesel particulate filters and therefore this Subpart is not applicable.	N/A						
§60.4214(d)	(d) 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)(i) 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.	No	The generators are not contractually obligated for the purposes identified in §60.4211(f)(2)(ii) and (iii) or that operates for the purposes specified in §60.4211(f)(3)(i) and therefore this Subpart is not applicable.	N/A						
<b>SPECIAL REQUIREMENTS</b>										
§60.4215 (a)-(c)	What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?	No	MHAFB is located in Idaho and therefore is not subject to this subpart	N/A						
§60.4216 (a)-(f)	What requirements must I meet for engines used in Alaska?	No	MHAFB is located in Idaho and therefore is not subject to this subpart	N/A						
§60.4217	What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?	No	The engines at MHAFB do not use special fuels and therefore are not subject to this Subpart	N/A						
<b>GENERAL PROVISIONS</b>										
§60.4218	What parts of the General Provisions apply to me?	Yes	See General Provisions in Table 8.	N/A						
§60.4219	What definitions apply to this subpart?	Yes	The definitions apply to the Subpart IIII to which MHAFB is subject.	N/A						
Table 1	Emission Standards for Stationary Pre-2007 Model Year Engines	Yes	See specific sections of Table 1 for applicability.	N/A						
KW<8 (HP<11)	NMHC + NOX (10.5 g/kW-hr); CO (8.0 g/kW-hr); PM (1.0 g/kW-hr)	No	MHAFB does not have CI ICE that meet this size requirement	N/A						
8≤KW<19 (11≤HP<25)	NMHC + NOX (9.5 g/kW-hr); CO (6.6 g/kW-hr); PM (0.80 g/kW-hr)	No	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID	Power	Manuf				
				IC1311	10kW	1999				
19≤KW<37 (25≤HP<50)	NMHC + NOX (9.5 g/kW-hr); CO (5.5 g/kW-hr); PM (0.80 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID	Power	Manuf	Equip ID	Power	Manuf	
				IC0517	25kW	1999	IC3502	25kW	2004	
				IC1014	25kW	2000	IC3503	25kW	1999	
				IC1298	25kW	1999	IC3535	25kW	1999	
				IC1413	25kW	2001	IC3539	25kW	1999	
				IC1501	35kW	2004	IC4799	25kW	2003	
				IC1819	25kW	2001	IC5250	35kW	1999	
				IC2708	25kW	1998	IC6400	25kW	1999	
				IC3240	25kW	1998				
37≤KW<56 (50≤HP<75)	Nox (9.2 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID	Power	Manuf				
				IC1302	50kW	2001				
56≤KW<75 (75≤HP<100)	Nox (9.2 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID	Power	Manuf				
				IC0206	60kW	2004				
				SC#1	60kW	2002				
75≤KW<130 (100≤HP<175)	Nox (9.2 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID	Power	Manuf				
				IC3600	100kW	2003				
				IC8077	100kW	2003				
				SC#2	100kW	2003				
				JB#1	125kW	2000				
				JB#2	125kW	2000				

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130≤KW<225 (175≤HP<300)	HC (1.3 g/kW-hr); Nox (9.2 g/kW-hr); CO (11.4 g/kW-hr); PM (0.54 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID Power Manuf IC1403 150kW 1999 IC2103 150kW 1998
225≤KW<450 (300≤HP<600)	HC (1.3 g/kW-hr); Nox (9.2 g/kW-hr); CO (11.4 g/kW-hr); PM (0.54 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID Power Manuf IC1402 300kW 2003 GR#1 225kW 2005 GR#2 225kW 2005
450≤KW≤560 (600≤HP≤750)	HC (1.3 g/kW-hr); Nox (9.2 g/kW-hr); CO (11.4 g/kW-hr); PM (0.54 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID Power Manuf IC2192 500kW 1998 IC4827 500kW 1999
KW>560 (HP>750)	HC (1.3 g/kW-hr); Nox (9.2 g/kW-hr); CO (11.4 g/kW-hr); PM (0.54 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID Power Manuf IC3491 1200kW 1995
<b>Table 2</b>	<b>Emission Standards for 2008 Model Year and Later Emergency Stationary CI ICE &lt;37 KW</b>	Yes	See specific sections of Table 2 for applicability.	N/A
KW<8 (HP<11)	Nox + NMHC (7.5 g/kW-hr); CO (8.0 g/kW-hr); PM (0.40 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID Power Manuf IC0196.2 10kW 2008 IC6300.2 10kW 2012
8≤KW<19 (11≤HP<25)	Nox + NMHC (7.5 g/kW-hr); CO (6.6 g/kW-hr); PM (0.40 g/kW-hr)	No	MHAFB does not have CI ICE that meet this size requirement	N/A
19≤KW<37 (25≤HP<50)	Nox + NMHC (7.5 g/kW-hr); CO (5.5 g/kW-hr); PM (0.30 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	Equip ID Power Manuf IC1333 30kW 2008 IC13509 20kW 2008
<b>Table 3</b>	<b>Certification Requirements for Stationary Fire Pump Engines</b>	No	MHAFB is not a manufacture of engines	N/A
KW<75 (HP<100)	Starting 2011 engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)	No	MHAFB is not a manufacture of engines	N/A
75≤KW<130 (100≤HP<175)	Starting 2010 engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)	No	MHAFB is not a manufacture of engines	N/A
130≤KW≤560 (175≤HP≤750)	Starting 2009 engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)	No	MHAFB is not a manufacture of engines	N/A
KW>560 (HP>750)	Starting 2008 engine manufacturers must certify new stationary fire pump engines according to §60.4202(d)	No	MHAFB is not a manufacture of engines	N/A
<b>Table 4</b>	<b>Emission Standards for Stationary Fire Pump Engines</b>	Yes	See specific sections of Table 4 for applicability.	N/A
KW<8 (HP<11)	2010 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (8.0 g/kW-hr); PM (1.0 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A
	2011+: Nox + NMHC (7.5 g/kW-hr); PM (0.40 g/kW-hr)			
8≤KW<19 (11≤HP<25)	2010 and earlier: Nox + NMHC (9.5 g/kW-hr); CO (6.6 g/kW-hr); PM (0.80 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A
	2011+: Nox + NMHC (7.5 g/kW-hr); PM (0.40 g/kW-hr)			
19≤KW<37 (25≤HP<50)	2010 and earlier: Nox + NMHC (9.5 g/kW-hr); CO (5.5 g/kW-hr); PM (0.80 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A
	2011+: Nox + NMHC (7.5 g/kW-hr); PM (0.30 g/kW-hr)			
37≤KW<56 (50≤HP<75)	2010 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (5.0 g/kW-hr); PM (0.80 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A
	2011+: Nox + NMHC (4.7 g/kW-hr); PM (0.40 g/kW-hr)			
56≤KW<75 (75≤HP<100)	2010 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (5.0 g/kW-hr); PM (0.80 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A
	2011+: Nox + NMHC (4.7 g/kW-hr); PM (0.40 g/kW-hr)			
75≤KW<130 (100≤HP<175)	2009 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (5.0 g/kW-hr); PM (0.80 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A
	2010+: Nox + NMHC (4.0 g/kW-hr); PM (0.30 g/kW-hr)			

40 CFR Part 60 Subpart IIII Regulatory Analysis  
Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																				
130≤KW<225 (175≤HP<300)	2008 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (3.5 g/kW-hr); PM (0.54 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A																																				
	2009+: Nox + NMHC (4.0 g/kW-hr); PM (0.20 g/kW-hr)																																							
225≤KW<450 (300≤HP<600)	2008 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (3.5 g/kW-hr); PM (0.54 g/kW-hr)	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	<table border="1"> <thead> <tr> <th colspan="3">FIRE PUMPS</th> <th colspan="3">FIRE PUMPS</th> </tr> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0197.1</td> <td>305 HP</td> <td>2000</td> <td>IC1347.1</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC0197.2</td> <td>305 HP</td> <td>2000</td> <td>IC1347.2</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC0197.3</td> <td>305 HP</td> <td>2000</td> <td>IC1347.3</td> <td>305 HP</td> <td>2000</td> </tr> <tr> <td>IC0197.4</td> <td>305 HP</td> <td>2000</td> <td>IC1347.4</td> <td>305 HP</td> <td>2000</td> </tr> </tbody> </table>	FIRE PUMPS			FIRE PUMPS			Equip ID	Power	Manuf	Equip ID	Power	Manuf	IC0197.1	305 HP	2000	IC1347.1	305 HP	2000	IC0197.2	305 HP	2000	IC1347.2	305 HP	2000	IC0197.3	305 HP	2000	IC1347.3	305 HP	2000	IC0197.4	305 HP	2000	IC1347.4	305 HP	2000
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IC0197.4	305 HP	2000	IC1347.4	305 HP	2000																																			
	2009+: Nox + NMHC (4.0 g/kW-hr); PM (0.20 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A																																				
450≤KW≤560 (600≤HP≤750)	2008 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (3.5 g/kW-hr); PM (0.54 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A																																				
	2009+: Nox + NMHC (4.0 g/kW-hr); PM (0.20 g/kW-hr)																																							
KW>560 (HP>750)	2007 and earlier: Nox + NMHC (10.5 g/kW-hr); CO (3.5 g/kW-hr); PM (0.54 g/kW-hr)	No	MHAFB does not have fire pump engines that meet the size requirement	N/A																																				
	2008+: Nox + NMHC (6.4 g/kW-hr); PM (0.20 g/kW-hr)																																							
<b>Table 5</b>	<b>Labeling and Recordkeeping Requirements for New Stationary Emergency Engines</b>	Yes	See specific sections of Table 5 for applicability.	N/A																																				
19≤KW<56 (25≤HP<75)	You must comply with the labeling requirements in §60.4210(f) and the recordkeeping requirements in §60.4214(b) for new emergency stationary CI ICE beginning in 2013	No	MHAFB does not have new engines with specified power rating.	N/A																																				
56≤KW<130 (75≤HP<175)	You must comply with the labeling requirements in §60.4210(f) and the recordkeeping requirements in §60.4214(b) for new emergency stationary CI ICE beginning in 2012	No	MHAFB does not have new engines with specified power rating.	N/A																																				
KW≥130 (HP≥175)	You must comply with the labeling requirements in §60.4210(f) and the recordkeeping requirements in §60.4214(b) for new emergency stationary CI ICE beginning in 2011	Yes	The CI ICE engines listed under Equipment ID are subject to this subpart.	<table border="1"> <thead> <tr> <th>Equip ID</th> <th>Power</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC6000.1</td> <td>818kW</td> <td>2011</td> </tr> <tr> <td>IC6000.2</td> <td>818kW</td> <td>2011</td> </tr> <tr> <td>IC1341.2</td> <td>375kW</td> <td>2012</td> </tr> <tr> <td>IC0610.2</td> <td>300kW</td> <td>2012</td> </tr> </tbody> </table>	Equip ID	Power	Manuf	IC6000.1	818kW	2011	IC6000.2	818kW	2011	IC1341.2	375kW	2012	IC0610.2	300kW	2012																					
				Equip ID	Power	Manuf																																		
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IC1341.2	375kW	2012																																						
IC0610.2	300kW	2012																																						
<b>Table 6</b>	<b>Optional 3-Mode Test Cycle for Stationary Fire Pump Engines</b>	No	MHAFB is not a manufacture of engines and therefore is not subject to this subpart.	N/A																																				
<b>Table 7</b>	<b>Requirements for Performance Tests for Stationary CI ICE With a Displacement of ≥30 Liters per Cylinder</b>	No	All engines at MHAFB have a displacement <30 liters per cylinder and therefore this Table is not applicable.	N/A																																				
<b>Table 8</b>	<b>Applicability of General Provisions to Subpart IIII</b>	Yes	MHAFB has CI ICE and is subject to the General Provisions in Table 8	All stationary CI ICE																																				

Notes:

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please refer to 40 CFR 60 Subpart IIII.

2 Acronyms  
CI = Compression Ignition  
HP = horse power  
ICE = Internal Combustion Engine  
ID = identification  
kW = kilowatt  
Manuf = Manufactured Date  
MHAFB = Mountain Home Air Force Base  
N/A = Not Applicable

3 See attached Summary of Stationary RICE for details on Equipment ID

**Attachment FRA-2**

**40 CFR Part 60 Subpart JJJJ Regulatory Analysis**

## Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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### WHAT THIS SUBPART COVERS

#### §60.4230 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (6) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary SI ICE with a maximum engine power less than or equal to 19 kilowatt (KW) (25 horsepower (HP)) that are manufactured on or after July 1, 2008.

(2) Manufacturers of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are gasoline fueled or that are rich burn engines fueled by liquefied petroleum gas (LPG), where the date of manufacture is:

(i) On or after July 1, 2008; or

(ii) On or after January 1, 2009, for emergency engines.

(3) Manufacturers of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are not gasoline fueled and are not rich burn engines fueled by LPG, where the manufacturer participates in the voluntary manufacturer certification program described in this subpart and where the date of manufacture is:

(i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);

(ii) On or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP;

(iii) On or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or

(iv) On or after January 1, 2009, for emergency engines.

(4) Owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured:

(i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);

(ii) on or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP;

(iii) on or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or

(iv) on or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP).

(5) Owners and operators of stationary SI ICE that are modified or reconstructed after June 12, 2006, and any person that modifies or reconstructs any stationary SI ICE after June 12, 2006.

(6) The provisions of §60.4236 of this subpart are applicable to all owners and operators of stationary SI ICE that commence construction after June 12, 2006.

(b) The provisions of this subpart are not applicable to stationary SI ICE being tested at an engine test cell/stand.

(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(d) For the purposes of this subpart, stationary SI ICE using alcohol-based fuels are considered gasoline engines.

(e) Stationary SI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR parts 90 and 1048, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

(f) Owners and operators of facilities with internal combustion engines that are acting as temporary replacement units and that are located at a stationary source for less than 1 year and that have been properly certified as meeting the standards that would be applicable to such engine under the appropriate nonroad engine provisions, are not required to meet any other provisions under this subpart with regard to such engines.

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37972, June 28, 2011]

### Regulatory Analysis

**The following stationary non-emergency generators operated at MHAFB is subject to the Subpart because MHAFB commenced construction after June 12, 2006 and the generators were manufactured after July 1, 2008:**

(1) **ET.BA, Emitter Site BA**  
**Manufactured: 2014**  
**Power Rating: 100 kW (134 HP)**  
**Fuel: LPG**

(3) **ET.BJ, Emitter Site BJ**  
**Manufactured: 2012**  
**Power Rating: 60 kW (80.4 HP)**  
**Fuel: LPG**

(2) **ET.BF, Emitter Site BF**  
**Manufactured: 2014**  
**Power Rating: 100 kW (134 HP)**  
**Fuel: LPG**

## EMISSION STANDARDS FOR MANUFACTURERS

### §60.4231 What emission standards must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing such engines?

(a) Stationary SI internal combustion engine manufacturers must certify their stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1, 2008 to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 1054, as follows:

If engine displacement is * * *	and manufacturing dates are * * *	the engine must meet emission standards and related requirements for nonhandheld engines under * * *
(1) below 225 cc	July 1, 2008 to December 31, 2011	40 CFR part 90.
(2) below 225 cc	January 1, 2012 or later	40 CFR part 1054.
(3) at or above 225 cc	July 1, 2008 to December 31, 2010	40 CFR part 90.
(4) at or above 225 cc	January 1, 2011 or later	40 CFR part 1054.

(b) Stationary SI internal combustion engine manufacturers must certify their stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) (except emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) that use gasoline and that are manufactured on or after the applicable date in §60.4230(a)(2), or manufactured on or after the applicable date in §60.4230(a)(4) for emergency stationary ICE with a maximum engine power greater than or equal to 130 HP, to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 1048. Stationary SI internal combustion engine manufacturers must certify their emergency stationary SI ICE with a maximum engine power greater than 25 HP and less than 130 HP that use gasoline and that are manufactured on or after the applicable date in §60.4230(a)(4) to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, and other requirements for new nonroad SI engines in 40 CFR part 90. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cubic centimeters (cc) that use gasoline to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 1054, as appropriate.

(c) Stationary SI internal combustion engine manufacturers must certify their stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) (except emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) that are rich burn engines that use LPG and that are manufactured on or after the applicable date in §60.4230(a)(2), or manufactured on or after the applicable date in §60.4230(a)(4) for emergency stationary ICE with a maximum engine power greater than or equal to 130 HP, to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 1048. Stationary SI internal combustion engine manufacturers must certify their emergency stationary SI ICE greater than 25 HP and less than 130 HP that are rich burn engines that use LPG and that are manufactured on or after the applicable date in §60.4230(a)(4) to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, and other requirements for new nonroad SI engines in 40 CFR part 90. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc that are rich burn engines that use LPG to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 1054, as appropriate.

(d) Stationary SI internal combustion engine manufacturers who choose to certify their stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG and emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) under the voluntary manufacturer certification program described in this subpart must certify those engines to the certification emission standards for new nonroad SI engines in 40 CFR part 1048. Stationary SI internal combustion engine manufacturers who choose to certify their emergency stationary SI ICE greater than 25 HP and less than 130 HP (except gasoline and rich burn engines that use LPG), must certify those engines to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, for new nonroad SI engines in 40 CFR part 90. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc (except gasoline and rich burn engines that use LPG) to the certification emission standards for new nonroad SI engines in 40 CFR part 90 or 1054, as appropriate. For stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG and emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) manufactured prior to January 1, 2011, manufacturers may choose to certify these engines to the standards in Table 1 to this subpart applicable to engines with a maximum engine power greater than or equal to 100 HP and less than 500 HP.

(e) Stationary SI internal combustion engine manufacturers who choose to certify their stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) under the voluntary manufacturer certification program described in this subpart must certify those engines to the emission standards in Table 1 to this subpart. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) that are lean burn engines that use LPG to the certification emission standards for new nonroad SI engines in 40 CFR part 1048. For stationary SI ICE with a maximum engine power greater than or equal to 100 HP (75 KW) and less than 500 HP (373 KW) manufactured prior to January 1, 2011, and for stationary SI ICE with a maximum engine power greater than or equal to 500 HP (373 KW) manufactured prior to July 1, 2010, manufacturers may choose to certify these engines to the certification emission standards for new nonroad SI engines in 40 CFR part 1048 applicable to engines that are not severe duty engines.

(f) Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, to the extent they apply to equipment manufacturers.

(g) Notwithstanding the requirements in paragraphs (a) through (c) of this section, stationary SI internal combustion engine manufacturers are not required to certify reconstructed engines; however manufacturers may elect to do so. The reconstructed engine must be certified to the emission standards specified in paragraphs (a) through (e) of this section that are applicable to the model year, maximum engine power and displacement of the reconstructed stationary SI ICE.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59175, Oct. 8, 2008; 76 FR 37973, June 28, 2011; 78 FR 6697, Jan. 30, 2013]

**Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

**§60.4232 How long must my engines meet the emission standards if I am a manufacturer of stationary SI internal combustion engines?**

Engines manufactured by stationary SI internal combustion engine manufacturers must meet the emission standards as required in §60.4231 during the certified emissions life of the engines.

**Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

## **EMISSION STANDARDS FOR OWNERS AND OPERATORS**

### **§60.4233 What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?**

(a) Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1, 2008, must comply with the emission standards in §60.4231(a) for their stationary SI ICE.

(b) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) manufactured on or after the applicable date in §60.4230(a)(4) that use gasoline must comply with the emission standards in §60.4231(b) for their stationary SI ICE.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines use LPG.***

(c) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) manufactured on or after the applicable date in §60.4230(a)(4) that are rich burn engines that use LPG must comply with the emission standards in §60.4231(c) for their stationary SI ICE.

**Regulatory Analysis**

***The generators each have a power rating greater than 19 kW, were manufactured after July 1, 2008 which is the date specified in §60.4230(a)(4)(iii), and burn LPG and therefore are subject to this Subpart and must comply with emission standards in §60.4231(c).***

(d) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards for field testing in 40 CFR 1048.101(c) for their non-emergency stationary SI ICE and with the emission standards in Table 1 to this subpart for their emergency stationary SI ICE. Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) manufactured prior to January 1, 2011, that were certified to the standards in Table 1 to this subpart applicable to engines with a maximum engine power greater than or equal to 100 HP and less than 500 HP, may optionally choose to meet those standards.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines use LPG.***

(e) Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines use LPG.***

(f) Owners and operators of any modified or reconstructed stationary SI ICE subject to this subpart must meet the requirements as specified in paragraphs (f)(1) through (5) of this section.

(1) Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP), that are modified or reconstructed after June 12, 2006, must comply with emission standards in §60.4231(a) for their stationary SI ICE. Engines with a date of manufacture prior to July 1, 2008 must comply with the emission standards specified in §60.4231(a) applicable to engines manufactured on July 1, 2008.

(2) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are gasoline engines and are modified or reconstructed after June 12, 2006, must comply with the emission standards in §60.4231(b) for their stationary SI ICE. Engines with a date of manufacture prior to July 1, 2008 (or January 1, 2009 for emergency engines) must comply with the emission standards specified in §60.4231(b) applicable to engines manufactured on July 1, 2008 (or January 1, 2009 for emergency engines).

(3) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are rich burn engines that use LPG, that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in §60.4231(c). Engines with a date of manufacture prior to July 1, 2008 (or January 1, 2009 for emergency engines) must comply with the emission standards specified in §60.4231(c) applicable to engines manufactured on July 1, 2008 (or January 1, 2009 for emergency engines).

(4) Owners and operators of stationary SI natural gas and lean burn LPG engines with a maximum engine power greater than 19 KW (25 HP), that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (d) or (e) of this section, except that such owners and operators of non-emergency engines and emergency engines greater than or equal to 130 HP must meet a nitrogen oxides (NO<sub>x</sub>) emission standard of 3.0 grams per HP-hour (g/HP-hr), a CO emission standard of 4.0 g/HP-hr (5.0 g/HP-hr for non-emergency engines less than 100 HP), and a volatile organic compounds (VOC) emission standard of 1.0 g/HP-hr, or a NO<sub>x</sub> emission standard of 250 ppmvd at 15 percent oxygen (O<sub>2</sub>), a CO emission standard 540 ppmvd at 15 percent O<sub>2</sub> (675 ppmvd at 15 percent O<sub>2</sub> for non-emergency engines less than 100 HP), and a VOC emission standard of 86 ppmvd at 15 percent O<sub>2</sub>, where the date of manufacture of the engine is:

(i) Prior to July 1, 2007, for non-emergency engines with a maximum engine power greater than or equal to 500 HP (except lean burn natural gas engines and LPG engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);

(ii) Prior to July 1, 2008, for non-emergency engines with a maximum engine power less than 500 HP;

(iii) Prior to January 1, 2009, for emergency engines;

(iv) Prior to January 1, 2008, for non-emergency lean burn natural gas engines and LPG engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP.

(5) Owners and operators of stationary SI landfill/digester gas ICE engines with a maximum engine power greater than 19 KW (25 HP), that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (e) of this section for stationary landfill/digester gas engines. Engines with maximum engine power less than 500 HP and a date of manufacture prior to July 1, 2008 must comply with the emission standards specified in paragraph (e) of this section for stationary landfill/digester gas ICE with a maximum engine power less than 500 HP manufactured on July 1, 2008. Engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines greater than or equal to 500 HP and less than 1,350 HP) and a date of

manufacture prior to July 1, 2007 must comply with the emission standards specified in paragraph (e) of this section for stationary landfill/digester gas ICE with a maximum engine power greater than or equal to 500 HP (except lean burn engines greater than or equal to 500 HP and less than 1,350 HP) manufactured on July 1, 2007. Lean burn engines greater than or equal to 500 HP and less than 1,350 HP with a date of manufacture prior to January 1, 2008 must comply with the emission standards specified in paragraph (e) of this section for stationary landfill/digester gas ICE that are lean burn engines greater than or equal to 500 HP and less than 1,350 HP and manufactured on January 1, 2008.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are not modified or reconstructed.***

(g) Owners and operators of stationary SI wellhead gas ICE engines may petition the Administrator for approval on a case-by-case basis to meet emission standards no less stringent than the emission standards that apply to stationary emergency SI engines greater than 25 HP and less than 130 HP due to the presence of high sulfur levels in the fuel, as specified in Table 1 to this subpart. The request must, at a minimum, demonstrate that the fuel has high sulfur levels that prevent the use of aftertreatment controls and also that the owner has reasonably made all attempts possible to obtain an engine that will meet the standards without the use of aftertreatment controls. The petition must request the most stringent standards reasonably applicable to the engine using the fuel.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are not a stationary SI wellhead gas ICE.***

(h) Owners and operators of stationary SI ICE that are required to meet standards that reference 40 CFR 1048.101 must, if testing their engines in use, meet the standards in that section applicable to field testing, except as indicated in paragraph (e) of this section.

**Regulatory Analysis**

***MHAFB is not subject to §60.4234(d) which references 40 CFR 1048.101 and therefore MHAFB is not subject to this Subpart.***

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37973, June 28, 2011]

**Regulatory Analysis**

***The generator has power rating greater than 19 kW, was manufactured after July 1, 2008, and burns LPG and therefore is subject only to Subpart §60.4233(c).***

**§60.4234 How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?**

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in §60.4233 over the entire life of the engine.

**Regulatory Analysis**

***MHAFB is subject to this Subpart since it owns and operates stationary SI ICE.***

## **OTHER REQUIREMENTS FOR OWNERS AND OPERATORS**

**§60.4235 What fuel requirements must I meet if I am an owner or operator of a stationary SI gasoline fired internal combustion engine subject to this subpart?**

Owners and operators of stationary SI ICE subject to this subpart that use gasoline must use gasoline that meets the per gallon sulfur limit in 40 CFR 80.195.

**Regulatory Analysis**

***The generator does not use gasoline and therefore is not subject to this Subpart.***

**§60.4236 What is the deadline for importing or installing stationary SI ICE produced in previous model years?**

(a) After July 1, 2010, owners and operators may not install stationary SI ICE with a maximum engine power of less than 500 HP that do not meet the applicable requirements in §60.4233.

(b) After July 1, 2009, owners and operators may not install stationary SI ICE with a maximum engine power of greater than or equal to 500 HP that do not meet the applicable requirements in §60.4233, except that lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP that do not meet the applicable requirements in §60.4233 may not be installed after January 1, 2010.

(c) For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in §60.4233 after January 1, 2011.

(d) In addition to the requirements specified in §§60.4231 and 60.4233, it is prohibited to import stationary SI ICE less than or equal to 19 KW (25 HP), stationary rich burn LPG SI ICE, and stationary gasoline SI ICE that do not meet the applicable requirements specified in paragraphs (a), (b), and (c) of this section, after the date specified in paragraph (a), (b), and (c) of this section.

(e) The requirements of this section do not apply to owners and operators of stationary SI ICE that have been modified or reconstructed, and they do not apply to engines that were removed from one existing location and reinstalled at a new location.

**Regulatory Analysis**

***MHAFB is subject to this Subpart. §60.4230(a)(6) specifies the provision of §60.4236 of this subpart are applicable to all owners and operators of stationary SI ICE that commence construction after June 12, 2006. The generators meet applicable requirements in §60.4233.***

**§60.4237 What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?**

(a) Starting on July 1, 2010, if the emergency stationary SI internal combustion engine that is greater than or equal to 500 HP that was built on or after July 1, 2010, does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.

(b) Starting on January 1, 2011, if the emergency stationary SI internal combustion engine that is greater than or equal to 130 HP and less than 500 HP that was built on or after January 1, 2011, does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.

(c) If you are an owner or operator of an emergency stationary SI internal combustion engine that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter upon startup of your emergency engine.

**Regulatory Analysis**

***The generators are for non-emergency use and therefore are not subject to this Subpart.***

## COMPLIANCE REQUIREMENTS FOR MANUFACTURERS

### **§60.4238 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines ≤19 KW (25 HP) or a manufacturer of equipment containing such engines?**

Stationary SI internal combustion engine manufacturers who are subject to the emission standards specified in §60.4231(a) must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C, as applicable, and must test their engines as specified in those parts. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

[73 FR 59176, Oct. 8, 2008]

#### **Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

### **§60.4239 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines >19 KW (25 HP) that use gasoline or a manufacturer of equipment containing such engines?**

Stationary SI internal combustion engine manufacturers who are subject to the emission standards specified in §60.4231(b) must certify their stationary SI ICE using the certification procedures required in 40 CFR part 1048, subpart C, and must test their engines as specified in that part. Stationary SI internal combustion engine manufacturers who certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 40 CFR part 1054, and manufacturers of stationary SI emergency engines that are greater than 25 HP and less than 130 HP who meet the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C, as applicable, and must test their engines as specified in those parts. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

[73 FR 59176, Oct. 8, 2008]

#### **Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

### **§60.4240 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines >19 KW (25 HP) that are rich burn engines that use LPG or a manufacturer of equipment containing such engines?**

Stationary SI internal combustion engine manufacturers who are subject to the emission standards specified in §60.4231(c) must certify their stationary SI ICE using the certification procedures required in 40 CFR part 1048, subpart C, and must test their engines as specified in that part. Stationary SI internal combustion engine manufacturers who certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 40 CFR part 1054, and manufacturers of stationary SI emergency engines that are greater than 25 HP and less than 130 HP who meet the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C, as applicable, and must test their engines as specified in those parts.

Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

[73 FR 59176, Oct. 8, 2008]

**Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

**§60.4241 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines participating in the voluntary certification program or a manufacturer of equipment containing such engines?**

(a) Manufacturers of stationary SI internal combustion engines with a maximum engine power greater than 19 KW (25 HP) that do not use gasoline and are not rich burn engines that use LPG can choose to certify their engines to the emission standards in §60.4231(d) or (e), as applicable, under the voluntary certification program described in this subpart. Manufacturers who certify their engines under the voluntary certification program must meet the requirements as specified in paragraphs (b) through (g) of this section. In addition, manufacturers of stationary SI internal combustion engines who choose to certify their engines under the voluntary certification program, must also meet the requirements as specified in §60.4247.

(b) Manufacturers of engines other than those certified to standards in 40 CFR part 90 or 40 CFR part 1054 must certify their stationary SI ICE using the certification procedures required in 40 CFR part 1048, subpart C, and must follow the same test procedures that apply to large SI nonroad engines under 40 CFR part 1048, but must use the D-1 cycle of International Organization of Standardization 8178-4: 1996(E) (incorporated by reference, see 40 CFR 60.17) or the test cycle requirements specified in Table 3 to 40 CFR 1048.505, except that Table 3 of 40 CFR 1048.505 applies to high load engines only. Stationary SI internal combustion engine manufacturers who certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 40 CFR part 1054, and manufacturers of emergency engines that are greater than 25 HP and less than 130 HP who meet the Phase 1 standards in 40 CFR 90.103, applicable to class II engines, must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C, as applicable, and must test their engines as specified in those parts. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

(c) Certification of stationary SI ICE to the emission standards specified in §60.4231(d) or (e), as applicable, is voluntary, but manufacturers who decide to certify are subject to all of the requirements indicated in this subpart with regard to the engines included in their certification. Manufacturers must clearly label their stationary SI engines as certified or non-certified engines.

(d) Manufacturers of natural gas fired stationary SI ICE who conduct voluntary certification of stationary SI ICE to the emission standards specified in §60.4231(d) or (e), as applicable, must certify their engines for operation using fuel that meets the definition of pipeline-quality natural gas. The fuel used for certifying stationary SI natural gas engines must meet the definition of pipeline-quality natural gas as described in §60.4248. In addition, the manufacturer must provide information to the owner and operator of the certified stationary SI engine including the specifications of the pipeline-quality natural gas to which the engine is certified and what adjustments the owner or operator must make to the engine when installed in the field to ensure compliance with the emission standards.

(e) Manufacturers of stationary SI ICE that are lean burn engines fueled by LPG who conduct voluntary certification of stationary SI ICE to the emission standards specified in §60.4231(d) or (e), as applicable, must certify their engines for operation using fuel that meets the specifications in 40 CFR 1065.720.

(f) Manufacturers may certify their engines for operation using gaseous fuels in addition to pipeline-quality natural gas; however, the manufacturer must specify the properties of that fuel and provide testing information showing that the engine will meet the emission standards specified in §60.4231(d) or (e), as applicable, when operating on that fuel. The manufacturer must also provide instructions for configuring the stationary engine to meet the emission standards on fuels that do not meet the pipeline-quality natural gas definition. The manufacturer must also provide information to the owner and operator of the certified stationary SI engine regarding the configuration that is most conducive to reduced emissions where the engine will be operated on gaseous fuels with different quality than the fuel that it was certified to.

(g) A stationary SI engine manufacturer may certify an engine family solely to the standards applicable to landfill/digester gas engines as specified in §60.4231(d) or (e), as applicable, but must certify their engines for operation using landfill/digester gas and must add a permanent label stating that the engine is for use only in landfill/digester gas applications. The label must be added according to the labeling requirements specified in 40 CFR 1048.135(b).

(h) For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

(i) For engines being certified to the voluntary certification standards in Table 1 of this subpart, the VOC measurement shall be made by following the procedures in 40 CFR 1065.260 and 1065.265 in order to determine the total NMHC emissions by using a flame-ionization detector and non-methane cutter. As an alternative to the nonmethane cutter, manufacturers may use a gas chromatograph as allowed under 40 CFR 1065.267 and may measure ethane, as well as methane, for excluding such levels from the total VOC measurement.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59176, Oct. 8, 2008; 76 FR 37974, June 28, 2011]

#### **Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

#### **§60.4242 What other requirements must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing stationary SI internal combustion engines or a manufacturer of equipment containing such engines?**

(a) Stationary SI internal combustion engine manufacturers must meet the provisions of 40 CFR part 90, 40 CFR part 1048, or 40 CFR part 1054, as applicable, as well as 40 CFR part 1068 for engines that are certified to the emission standards in 40 CFR part 1048 or 1054, except that engines certified pursuant to the voluntary certification procedures in §60.4241 are subject only to the provisions indicated in §60.4247 and are permitted to provide instructions to owners and operators allowing for deviations from certified configurations, if such deviations are consistent with the provisions of paragraphs §60.4241(c) through (f). Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, as applicable. Labels on engines certified to 40 CFR part 1048 must refer to stationary engines, rather than or in addition to nonroad engines, as appropriate.

(b) An engine manufacturer certifying an engine family or families to standards under this subpart that are identical to standards applicable under 40 CFR part 90, 40 CFR part 1048, or 40 CFR part 1054 for that model year may certify any such family that contains both nonroad and stationary engines as a single engine family and/or may include any such family containing stationary engines in the averaging,

banking and trading provisions applicable for such engines under those parts. This provision also applies to equipment or component manufacturers certifying to standards under 40 CFR part 1060.

(c) Manufacturers of engine families certified to 40 CFR part 1048 may meet the labeling requirements referred to in paragraph (a) of this section for stationary SI ICE by either adding a separate label containing the information required in paragraph (a) of this section or by adding the words "and stationary" after the word "nonroad" to the label.

(d) For all engines manufactured on or after January 1, 2011, and for all engines with a maximum engine power greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, a stationary SI engine manufacturer that certifies an engine family solely to the standards applicable to emergency engines must add a permanent label stating that the engines in that family are for emergency use only. The label must be added according to the labeling requirements specified in 40 CFR 1048.135(b).

(e) All stationary SI engines subject to mandatory certification that do not meet the requirements of this subpart must be labeled according to 40 CFR 1068.230 and must be exported under the provisions of 40 CFR 1068.230. Stationary SI engines subject to standards in 40 CFR part 90 may use the provisions in 40 CFR 90.909. Manufacturers of stationary engines with a maximum engine power greater than 25 HP that are not certified to standards and other requirements under 40 CFR part 1048 are subject to the labeling provisions of 40 CFR 1048.20 pertaining to excluded stationary engines.

(f) For manufacturers of gaseous-fueled stationary engines required to meet the warranty provisions in 40 CFR 90.1103 or 1054.120, we may establish an hour-based warranty period equal to at least the certified emissions life of the engines (in engine operating hours) if we determine that these engines are likely to operate for a number of hours greater than the applicable useful life within 24 months. We will not approve an alternate warranty under this paragraph (f) for nonroad engines. An alternate warranty period approved under this paragraph (f) will be the specified number of engine operating hours or two years, whichever comes first. The engine manufacturer shall request this alternate warranty period in its application for certification or in an earlier submission. We may approve an alternate warranty period for an engine family subject to the following conditions:

(1) The engines must be equipped with non-resettable hour meters.

(2) The engines must be designed to operate for a number of hours substantially greater than the applicable certified emissions life.

(3) The emission-related warranty for the engines may not be shorter than any published warranty offered by the manufacturer without charge for the engines. Similarly, the emission-related warranty for any component shall not be shorter than any published warranty offered by the manufacturer without charge for that component.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008]

**Regulatory Analysis**

***MHAFB is not the manufacture of the engines and therefore this Subpart is not applicable.***

## **COMPLIANCE REQUIREMENTS FOR OWNERS AND OPERATORS**

**§60.4243 What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?**

(a) If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in §60.4233(a) through (c), you must comply by purchasing an engine certified to the emission standards in §60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. In addition, you must meet one of the requirements specified in (a)(1) and (2) of this section.

**Regulatory Analysis**

***MHAFB is subject to this Subpart. The engines are EPA certified to meet emission standards.***

(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance.

**Regulatory Analysis**

***MHAFB is subject to this Subpart. The engines are operated and maintained in accordance with manufacture recommendations.***

(2) If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be considered a non-certified engine, and you must demonstrate compliance according to (a)(2)(i) through (iii) of this section, as appropriate.

(i) If you are an owner or operator of a stationary SI internal combustion engine less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required if you are an owner or operator.

(ii) If you are an owner or operator of a stationary SI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup to demonstrate compliance.

(iii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are operated and maintained in accordance with manufacture recommendations.***

(b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(d) or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.

(1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.

(2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in §60.4233(d) or (e) and according to the requirements specified in §60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of this section.

(i) If you are an owner or operator of a stationary SI internal combustion engine greater than 25 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance.

(ii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engine uses LPG.***

(c) If you are an owner or operator of a stationary SI internal combustion engine that must comply with the emission standards specified in §60.4233(f), you must demonstrate compliance according paragraph (b)(2)(i) or (ii) of this section, except that if you comply according to paragraph (b)(2)(i) of this section, you demonstrate that your non-certified engine complies with the emission standards specified in §60.4233(f).

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are not modified or reconstructed.***

(d) If you own or operate an emergency stationary ICE, you must operate the emergency stationary ICE according to the requirements in paragraphs (d)(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 (d)(1) through (3) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (d)(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.

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

(2) You may operate your emergency stationary ICE for any combination of the purposes specified in paragraphs (d)(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 (d)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (d)(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.

(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, 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.

(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.

(3) Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (d)(2) of this section. Except as provided in paragraph (d)(3)(i) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

(ii) [Reserved]

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are for non-emergency use.***

(e) Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of §60.4233.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engine uses LPG (propane) and not natural gas.***

(f) If you are an owner or operator of a stationary SI internal combustion engine that is less than or equal to 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified stationary SI internal combustion engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing as indicated in this section, but you are not required to conduct subsequent performance testing unless the stationary engine is rebuilt or undergoes major repair or maintenance. A rebuilt stationary SI ICE means an engine that has been rebuilt as that term is defined in 40 CFR 94.11(a).

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are EPA certified.***

(g) It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalyts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

**Regulatory Analysis**

***MHAFB is subject to this Subpart and operates the engine in accordance with manufacture recommendations.***

(h) If you are an owner/operator of an stationary SI internal combustion engine with maximum engine power greater than or equal to 500 HP that is manufactured after July 1, 2007 and before July 1, 2008, and must comply with the emission standards specified in sections 60.4233(b) or (c), you must comply by one of the methods specified in paragraphs (h)(1) through (h)(4) of this section.

(1) Purchasing an engine certified according to 40 CFR part 1048. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

(i) If you are an owner or operator of a modified or reconstructed stationary SI internal combustion engine and must comply with the emission standards specified in §60.4233(f), you must demonstrate compliance according to one of the methods specified in paragraphs (i)(1) or (2) of this section.

(1) Purchasing, or otherwise owning or operating, an engine certified to the emission standards in §60.4233(f), as applicable.

(2) Conducting a performance test to demonstrate initial compliance with the emission standards according to the requirements specified in §60.4244. The test must be conducted within 60 days after the engine commences operation after the modification or reconstruction.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engine has maximum engine power less than 500 HP.***

[73 FR 3591, Jan. 18, 2008, as amended at 76 FR 37974, June 28, 2011; 78 FR 6697, Jan. 30, 2013]

## TESTING REQUIREMENTS FOR OWNERS AND OPERATORS

### §60.4244 What test methods and other procedures must I use if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (f) of this section.

(a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to this subpart.

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.

(d) To determine compliance with the NO<sub>x</sub> mass per unit output emission limitation, convert the concentration of NO<sub>x</sub> in the engine exhaust using Equation 1 of this section:

$$ER = \frac{C_a \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 1})$$

Where:

ER = Emission rate of NO<sub>x</sub> in g/HP-hr.

C<sub>a</sub> = Measured NO<sub>x</sub> concentration in parts per million by volume (ppmv).

1.912×10<sup>-3</sup> = Conversion constant for ppm NO<sub>x</sub> to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

(e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this section:

$$ER = \frac{C_a \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 2})$$

Where:

ER = Emission rate of CO in g/HP-hr.

C<sub>a</sub> = Measured CO concentration in ppmv.

1.164×10<sup>-3</sup> = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

(f) For purposes of this subpart, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this section:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 3})$$

Where:

ER = Emission rate of VOC in g/HP-hr.

$C_d$  = VOC concentration measured as propane in ppmv.

$1.833 \times 10^{-3}$  = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

(g) If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this section.

$$RF_i = \frac{C_M}{C_{Ai}} \quad (\text{Eq. 4})$$

Where:

$RF_i$  = Response factor of compound i when measured with EPA Method 25A.

$C_M$  = Measured concentration of compound i in ppmv as carbon.

$C_{Ai}$  = True concentration of compound i in ppmv as carbon.

$$C_{corr} = RF_i \times C_{meas} \quad (\text{Eq. 5})$$

Where:

$C_{corr}$  = Concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.

$C_{meas}$  = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{Req} = 0.6098 \times C_{corr} \quad (\text{Eq. 6})$$

Where:

$C_{Peq}$  = Concentration of compound i in mg of propane equivalent per DSCM.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since performance testing is not required.***

## **NOTIFICATION, REPORTS, AND RECORDS FOR OWNERS AND OPERATORS**

### **§60.4245 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?**

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

(a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1) through (4) of this section.

(1) All notifications submitted to comply with this subpart and all documentation supporting any notification.

(2) Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

(4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

**Regulatory Analysis**

***MHAFB is subject to this subpart since it is an owner or operator of a stationary SI ICE .***

(b) For all stationary SI emergency ICE greater than or equal to 500 HP manufactured on or after July 1, 2010, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of 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.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are less than 500 HP.***

(c) Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in §60.4231 must submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (c)(1) through (5) of this section.

- (1) Name and address of the owner or operator;
- (2) The address of the affected source;
- (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
- (4) Emission control equipment; and
- (5) Fuel used.

**Regulatory Analysis**

***MHAFFB is not subject to this Subpart since the engines are less than 500 HP.***

(d) Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed.

**Regulatory Analysis**

***MHAFFB is not subject to this Subpart since performance testing is not required.***

(e) If you own or operate an emergency stationary SI 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 §60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in §60.4243(d)(3)(i), you must submit an annual report according to the requirements in paragraphs (e)(1) through (3) of this section.

- (1) The report must contain the following information:
  - (i) Company name and address where the engine is located.
  - (ii) Date of the report and beginning and ending dates of the reporting period.
  - (iii) Engine site rating and model year.
  - (iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
  - (v) Hours operated for the purposes specified in §60.4243(d)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §60.4243(d)(2)(ii) and (iii).
  - (vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §60.4243(d)(2)(ii) and (iii).
  - (vii) Hours spent for operation for the purposes specified in §60.4243(d)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4243(d)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4.

**Regulatory Analysis**

***MHAFB is not subject to this Subpart since the engines are not contractually obligated for the purposes specified in §60.4243(d)(2)(ii) and (iii) or that operates for the purposes specified in §60.4243(d)(3)(i).***

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 78 FR 6697, Jan. 30, 2013]

## GENERAL PROVISIONS

### §60.4246 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions in §§60.1 through 60.19 apply to you.

**Regulatory Analysis**

***MHAFB is subject to the General Provisions.***

## MOBILE SOURCE PROVISIONS

### §60.4247 What parts of the mobile source provisions apply to me if I am a manufacturer of stationary SI internal combustion engines or a manufacturer of equipment containing such engines?

(a) Manufacturers certifying to emission standards in 40 CFR part 90, including manufacturers certifying emergency engines below 130 HP, must meet the provisions of 40 CFR part 90. Manufacturers certifying to emission standards in 40 CFR part 1054 must meet the provisions of 40 CFR part 1054. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060 to the extent they apply to equipment manufacturers.

(b) Manufacturers required to certify to emission standards in 40 CFR part 1048 must meet the provisions of 40 CFR part 1048. Manufacturers certifying to emission standards in 40 CFR part 1048 pursuant to the voluntary certification program must meet the requirements in Table 4 to this subpart as well as the standards in 40 CFR 1048.101.

(c) For manufacturers of stationary SI internal combustion engines participating in the voluntary certification program and certifying engines to Table 1 to this subpart, Table 4 to this subpart shows which parts of the mobile source provisions in 40 CFR parts 1048, 1065, and 1068 apply to you. Compliance with the deterioration factor provisions under 40 CFR 1048.205(n) and 1048.240 will be required for engines built new on and after January 1, 2010. Prior to January 1, 2010, manufacturers of stationary internal combustion engines participating in the voluntary certification program have the option to develop their own deterioration factors based on an engineering analysis.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008]

**Regulatory Analysis**

***MHAFB is not a manufacture of engines and therefore is not subject to this Subpart.***

## DEFINITIONS

### §60.4248 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

*Certified emissions life* means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for certified emissions life for stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) are given in 40 CFR 90.105, 40 CFR 1054.107, and 40 CFR 1060.101, as appropriate. The values for certified emissions life for stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) certified to 40 CFR part 1048 are given in 40 CFR 1048.101(g). The certified emissions life for stationary SI ICE with a maximum engine power greater than 75 KW (100 HP) certified under the voluntary manufacturer certification program of this subpart is 5,000 hours or 7 years, whichever comes first. You may request in your application for certification that we approve a shorter certified emissions life for an engine family. We may approve a shorter certified emissions life, in hours of engine operation but not in years, if we determine that these engines will rarely operate longer than the shorter certified emissions life. If engines identical to those in the engine family have already been produced and are in use, your demonstration must include documentation from such in-use engines. In other cases, your demonstration must include an engineering analysis of information equivalent to such in-use data, such as data from research engines or similar engine models that are already in production. Your demonstration must also include any overhaul interval that you recommend, any mechanical warranty that you offer for the engine or its components, and any relevant customer design specifications. Your demonstration may include any other relevant information. The certified emissions life value may not be shorter than any of the following:

- (i) 1,000 hours of operation.
- (ii) Your recommended overhaul interval.
- (iii) Your mechanical warranty for the engine.

*Certified stationary internal combustion engine* means an engine that belongs to an engine family that has a certificate of conformity that complies with the emission standards and requirements in this part, or of 40 CFR part 90, 40 CFR part 1048, or 40 CFR part 1054, as appropriate.

*Combustion turbine* means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and sub-components comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/electric generating system.

*Compression ignition* means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

*Date of manufacture* means one of the following things:

(1) For freshly manufactured engines and modified engines, date of manufacture means the date the engine is originally produced.

(2) For reconstructed engines, date of manufacture means the date the engine was originally produced, except as specified in paragraph (3) of this definition.

(3) Reconstructed engines are assigned a new date of manufacture if the fixed capital cost of the new and refurbished components exceeds 75 percent of the fixed capital cost of a comparable entirely new facility. An engine that is produced from a previously used engine block does not retain the date of manufacture of the engine in which the engine block was previously used if the engine is produced using all new components except for the engine block. In these cases, the date of manufacture is the date of reconstruction or the date the new engine is produced.

*Diesel fuel* means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

*Digester gas* means any gaseous by-product of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and carbon dioxide (CO<sub>2</sub>).

*Emergency stationary internal combustion engine* means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary ICE must comply with the requirements specified in §60.4243(d) in order to be considered emergency stationary ICE. If the engine does not comply with the requirements specified in §60.4243(d), then it is not considered to be an emergency stationary ICE under this subpart.

(1) The stationary ICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc.

(2) The stationary ICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in §60.4243(d).

(3) The stationary ICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in §60.4243(d)(2)(ii) or (iii) and §60.4243(d)(3)(i).

*Engine manufacturer* means the manufacturer of the engine. See the definition of "manufacturer" in this section.

*Four-stroke engine* means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

*Freshly manufactured engine* means an engine that has not been placed into service. An engine becomes freshly manufactured when it is originally produced.

*Gasoline* means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

*Installed* means the engine is placed and secured at the location where it is intended to be operated.

*Landfill gas* means a gaseous by-product of the land application of municipal refuse typically formed through the anaerobic decomposition of waste materials and composed principally of methane and CO<sub>2</sub>.

*Lean burn engine* means any two-stroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

*Liquefied petroleum gas* means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining or natural gas production.

*Manufacturer* has the meaning given in section 216(1) of the Clean Air Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary engines for resale.

*Maximum engine power* means maximum engine power as defined in 40 CFR 1048.801.

*Model year* means the calendar year in which an engine is manufactured (see "date of manufacture"), except as follows:

(1) Model year means the annual new model production period of the engine manufacturer in which an engine is manufactured (see "date of manufacture"), if the annual new model production period is different than the calendar year and includes January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year and it must end by December 31 of the named calendar year.

(2) For an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was manufactured (see "date of manufacture").

*Natural gas* means a naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

*Other internal combustion engine* means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

*Pipeline-quality natural gas* means a naturally occurring fluid mixture of hydrocarbons (e.g., methane, ethane, or propane) produced in geological formations beneath the Earth's surface that maintains a gaseous state at standard atmospheric temperature and pressure under ordinary conditions, and which is provided by a supplier through a pipeline. Pipeline-quality natural gas must either be composed of at least 70 percent methane by volume or have a gross calorific value between 950 and 1,100 British thermal units per standard cubic foot.

*Rich burn engine* means any four-stroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to June 12, 2006, with passive emission control technology for NO<sub>x</sub> (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

*Rotary internal combustion engine* means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

*Spark ignition* means relating to either: a gasoline-fueled engine; or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the

theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

*Stationary internal combustion engine* means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(ii) of that definition), and is not used to propel a motor vehicle, aircraft, or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

*Stationary internal combustion engine test cell/stand* means an engine test cell/stand, as defined in 40 CFR part 63, subpart PPPPP, that tests stationary ICE.

*Stoichiometric* means the theoretical air-to-fuel ratio required for complete combustion.

*Subpart* means 40 CFR part 60, subpart JJJJ.

*Two-stroke engine* means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

*Volatile organic compounds* means volatile organic compounds as defined in 40 CFR 51.100(s).

*Voluntary certification program* means an optional engine certification program that manufacturers of stationary SI internal combustion engines with a maximum engine power greater than 19 KW (25 HP) that do not use gasoline and are not rich burn engines that use LPG can choose to participate in to certify their engines to the emission standards in §60.4231(d) or (e), as applicable.

[73 FR 3591, Jan. 18, 2008, as amended at 73 FR 59177, Oct. 8, 2008; 76 FR 37974, June 28, 2011; 78 FR 6698, Jan. 30, 2013]

**Table 1 to Subpart JJJJ of Part 60—NO<sub>x</sub>, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥100 HP (Except Gasoline and Rich Burn LPG), Stationary SI Landfill/Digester Gas Engines, and Stationary Emergency Engines >25 HP**

Engine type and fuel	Maximum engine power	Manufacture date	Emission standards <sup>a</sup>					
			g/HP-hr			ppmvd at 15% O <sub>2</sub>		
			NO <sub>x</sub>	CO	VOC <sup>d</sup>	NO <sub>x</sub>	CO	VOC <sup>d</sup>
Non-Emergency SI Natural Gas <sup>b</sup> and Non-Emergency SI Lean Burn LPG <sup>b</sup>	100≤HP<500	7/1/2008	2.0	4.0	1.0	160	540	86
		1/1/2011	1.0	2.0	0.7	82	270	60
Non-Emergency SI Lean Burn Natural Gas and LPG	500≤HP<1,350	1/1/2008	2.0	4.0	1.0	160	540	86
		7/1/2010	1.0	2.0	0.7	82	270	60

Non-Emergency SI Natural Gas and Non-Emergency SI Lean Burn LPG (except lean burn 500≤HP<1,350)	HP≥500	7/1/2007	2.0	4.0	1.0	160	540	86
	HP≥500	7/1/2010	1.0	2.0	0.7	82	270	60
Landfill/Digester Gas (except lean burn 500≤HP<1,350)	HP<500	7/1/2008	3.0	5.0	1.0	220	610	80
		1/1/2011	2.0	5.0	1.0	150	610	80
	HP≥500	7/1/2007	3.0	5.0	1.0	220	610	80
		7/1/2010	2.0	5.0	1.0	150	610	80
Landfill/Digester Gas Lean Burn	500≤HP<1,350	1/1/2008	3.0	5.0	1.0	220	610	80
		7/1/2010	2.0	5.0	1.0	150	610	80
Emergency	25<HP<130	1/1/2009	<sup>c</sup> 10	387	N/A	N/A	N/A	N/A
	HP≥130		2.0	4.0	1.0	160	540	86

<sup>a</sup>Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/HP-hr or ppmvd at 15 percent O<sub>2</sub>

<sup>b</sup>Owners and operators of new or reconstructed non-emergency lean burn SI stationary engines with a site rating of greater than or equal to 250 brake HP located at a major source that are meeting the requirements of 40 CFR part 63, subpart ZZZZ, Table 2a do not have to comply with the CO emission standards of Table 1 of this subpart.

<sup>c</sup>The emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO<sub>x</sub> + HC.

<sup>d</sup>For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[76 FR 37975, June 28, 2011]

**Table 2 to Subpart JJJJ of Part 60—Requirements for Performance Tests**

As stated in §60.4244, you must comply with the following requirements for performance tests within 10 percent of 100 percent peak (or the highest achievable) load:

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary SI internal combustion engine demonstrating compliance according to §60.4244.	a. limit the concentration of NO <sub>x</sub> in the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary internal combustion engine;	(1) Method 1 or 1A of 40 CFR part 60, appendix A-1, if measuring flow rate	(a) Alternatively, for NO <sub>x</sub> , O <sub>2</sub> , and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be

				sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter <i>and</i> the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, Appendix A, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, Appendix A.
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B <sup>b</sup> of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00 (Reapproved 2005) <sup>aa</sup>	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for NO <sub>x</sub> concentration.
		iii. If necessary, determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 2C of 40 CFR part 60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7	
		iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D 6348-03 <sup>e</sup>	(c) Measurements to determine moisture must be made at the same time as the measurement for NO <sub>x</sub> concentration.
		v. Measure NO <sub>x</sub> at the exhaust of the stationary internal combustion engine; if using a control device, the sampling site must be located at the outlet of the control device.	(5) Method 7E of 40 CFR part 60, appendix A-4, ASTM Method D6522-00 (Reapproved 2005) <sup>aa</sup> , Method 320 of 40 CFR part 63, appendix A, or ASTM Method D 6348-03 <sup>e</sup>	(d) Results of this test consist of the average of the three 1-hour or longer runs.
	b. limit the concentration of CO in the	i. Select the sampling port location and the number/location of	(1) Method 1 or 1A of 40 CFR part 60, appendix A-1, if	(a) Alternatively, for CO, O <sub>2</sub> , and moisture measurement, ducts ≤6

	stationary SI internal combustion engine exhaust.	traverse points at the exhaust of the stationary internal combustion engine;	measuring flow rate	inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter <i>and</i> the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, Appendix A, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, Appendix A.
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B <sup>b</sup> of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00 (Reapproved 2005) <sup>ae</sup>	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for CO concentration.
		iii. If necessary, determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 2C of 40 CFR part 60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7	
		iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D 6348-03 <sup>e</sup>	(c) Measurements to determine moisture must be made at the same time as the measurement for CO concentration.
		v. Measure CO at the exhaust of the stationary internal combustion engine; if using a control device, the sampling site must be located	(5) Method 10 of 40 CFR part 60, appendix A4, ASTM Method D6522-00 (Reapproved 2005) <sup>ae</sup> , Method 320 of 40 CFR part 63,	(d) Results of this test consist of the average of the three 1-hour or longer runs.

		at the outlet of the control device.	appendix A, or ASTM Method D 6348-03 <sup>e</sup>	
	c. limit the concentration of VOC in the stationary SI internal combustion engine exhaust	i. Select the sampling port location and the number/location of traverse points at the exhaust of the stationary internal combustion engine;	(1) Method 1 or 1A of 40 CFR part 60, appendix A-1, if measuring flow rate	(a) Alternatively, for VOC, O <sub>2</sub> , and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter and the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, Appendix A, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, Appendix A.
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B <sup>b</sup> of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00 (Reapproved 2005) <sup>ae</sup>	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for VOC concentration.
		iii. If necessary, determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 2C of 40 CFR part 60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7	
		iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D 6348-03 <sup>e</sup>	(c) Measurements to determine moisture must be made at the same time as the measurement for VOC concentration.
		v. Measure VOC at	(5) Methods 25A and	(d) Results of this test

		the exhaust of the stationary internal combustion engine; if using a control device, the sampling site must be located at the outlet of the control device.	18 of 40 CFR part 60, appendices A-6 and A-7, Method 25A with the use of a methane cutter as described in 40 CFR 1065.265, Method 18 of 40 CFR part 60, appendix A-6 <sup>d</sup> , Method 320 of 40 CFR part 63, appendix A, or ASTM Method D 6348-03 <sup>e</sup>	consist of the average of the three 1-hour or longer runs.
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<sup>a</sup>Also, you may petition the Administrator for approval to use alternative methods for portable analyzer.

<sup>b</sup>You may use ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses, for measuring the O<sub>2</sub> content of the exhaust gas as an alternative to EPA Method 3B. AMSE PTC 19.10-1981 incorporated by reference, see 40 CFR 60.17

<sup>c</sup>You may use EPA Method 18 of 40 CFR part 60, appendix A-6, provided that you conduct an adequate pre-survey test prior to the emissions test, such as the one described in OTM 11 on EPA's Web site (<http://www.epa.gov/ttn/emc/prelim/otm11.pdf>).

<sup>d</sup>You may use ASTM D6420-99 (2004), Test Method for Determination of Gaseous Organic Compounds by Direct Interface Gas Chromatography/Mass Spectrometry as an alternative to EPA Method 18 for measuring total nonmethane organic. ASTM D6420-99(2004) incorporated by reference; see 40 CFR 60.17.

<sup>e</sup>Incorporated by reference; see 40 CFR 60.17.

[79 FR 11253, Feb. 27, 2014]

**Table 3 to Subpart JJJJ of Part 60—Applicability of General Provisions to Subpart JJJJ**

[As stated in §60.4246, you must comply with the following applicable General Provisions]

General provisions citation	Subject of citation	Applies to subpart	Explanation
<u>§60.1</u>	<u>General applicability of the General Provisions</u>	Yes	
<u>§60.2</u>	<u>Definitions</u>	Yes	<u>Additional terms defined in §60.4248.</u>
<u>§60.3</u>	<u>Units and abbreviations</u>	Yes	
<u>§60.4</u>	<u>Address</u>	Yes	
<u>§60.5</u>	<u>Determination of construction or modification</u>	Yes	
<u>§60.6</u>	<u>Review of plans</u>	Yes	

<u>§60.7</u>	<u>Notification and Recordkeeping</u>	<u>Yes</u>	<u>Except that §60.7 only applies as specified in §60.4245.</u>
§60.8	Performance tests	Yes	Except that §60.8 only applies to owners and operators who are subject to performance testing in subpart JJJJ.
<u>§60.9</u>	<u>Availability of information</u>	<u>Yes</u>	
<u>§60.10</u>	<u>State Authority</u>	<u>Yes</u>	
§60.11	Compliance with standards and maintenance requirements	Yes	Requirements are specified in subpart JJJJ.
<u>§60.12</u>	<u>Circumvention</u>	<u>Yes</u>	
§60.13	Monitoring requirements	No	
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

**Regulatory Analysis**

***MHAFB has existing non-emergency SI ICE and is subject to the General Provisions in Table 3.***

**Table 4 to Subpart JJJJ of Part 60—Applicability of Mobile Source Provisions for Manufacturers Participating in the Voluntary Certification Program and Certifying Stationary SI ICE to Emission Standards in Table 1 of Subpart JJJJ**

[As stated in §60.4247, you must comply with the following applicable mobile source provisions if you are a manufacturer participating in the voluntary certification program and certifying stationary SI ICE to emission standards in Table 1 of subpart JJJJ]

<b>Mobile source provisions citation</b>	<b>Subject of citation</b>	<b>Applies to subpart</b>	<b>Explanation</b>
1048 subpart A	Overview and Applicability	Yes	
1048 subpart B	Emission Standards and Related Requirements	Yes	Except for the specific sections below.
1048.101	Exhaust Emission Standards	No	
1048.105	Evaporative Emission Standards	No	
1048.110	Diagnosing Malfunctions	No	
1048.140	Certifying Blue Sky Series Engines	No	

1048.145	Interim Provisions	No	
1048 subpart C	Certifying Engine Families	Yes	Except for the specific sections below.
1048.205(b)	AECD reporting	Yes	
1048.205(c)	OBD Requirements	No	
1048.205(n)	Deterioration Factors	Yes	Except as indicated in 60.4247(c).
1048.205(p)(1)	Deterioration Factor Discussion	Yes	
1048.205(p)(2)	Liquid Fuels as they require	No	
1048.240(b)(c)(d)	Deterioration Factors	Yes	
1048 subpart D	Testing Production-Line Engines	Yes	
1048 subpart E	Testing In-Use Engines	No	
1048 subpart F	Test Procedures	Yes	
1065.5(a)(4)	Raw sampling (refers reader back to the specific emissions regulation for guidance)	Yes	
1048 subpart G	Compliance Provisions	Yes	
1048 subpart H	Reserved		
1048 subpart I	Definitions and Other Reference Information	Yes	
1048 appendix I and II	Yes		
1065 (all subparts)	Engine Testing Procedures	Yes	Except for the specific section below.
1065.715	Test Fuel Specifications for Natural Gas	No	
1068 (all subparts)	General Compliance Provisions for Nonroad Programs	Yes	Except for the specific sections below.
1068.245	Hardship Provisions for Unusual Circumstances	No	
1068.250	Hardship Provisions for Small-Volume Manufacturers	No	
1068.255	Hardship Provisions for Equipment Manufacturers and Secondary Engine Manufacturers	No	

**Regulatory Analysis**

***MHAFB is not a manufacture and therefore is not subject to Table 4.***

**Attachment FRA-3**

**40 CFR Part 63 Subpart ZZZZ Regulatory Analysis**

## Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

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### §63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

***MHAFB is an area source of HAP emissions.***

### §63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

(f) The emergency stationary RICE listed in paragraphs (f)(1) through (3) of this section are not subject to this subpart. The stationary RICE must meet the definition of an emergency stationary RICE in §63.6675, which includes operating according to the provisions specified in §63.6640(f).

(1) Existing residential emergency stationary RICE located at an area source of HAP emissions that do not operate or are not 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) and that do not operate for the purpose specified in §63.6640(f)(4)(ii).

(2) Existing commercial emergency stationary RICE located at an area source of HAP emissions that do not operate or are not 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) and that do not operate for the purpose specified in §63.6640(f)(4)(ii).

(3) Existing institutional emergency stationary RICE located at an area source of HAP emissions that do not operate or are not 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) and that do not operate for the purpose specified in §63.6640(f)(4)(ii).

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008; 78 FR 6700, Jan. 30, 2013]

***MHAFB is an area source of HAP emissions and is subject to this section.***

**§63.6590 What parts of my plant does this subpart cover?**

This subpart applies to each affected source.

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

*(1) Existing stationary RICE.*

(i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.

(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

***MHAFB is an area source of HAP emissions and commenced construction or reconstruction of stationary RICE before June 12, 2006. Please see attached table for list of equipment subject to this subpart.***

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

*(2) New stationary RICE.*

(i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

**MHAFB is an area source of HAP emissions and commenced construction of stationary RICE after June 12, 2006. Please see attached table for list of equipment subject to this subpart.**

(3) *Reconstructed stationary RICE.*

(i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(b) *Stationary RICE subject to limited requirements.*

(1) An affected source which meets either of the criteria in paragraphs (b)(1)(i) through (ii) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of §63.6645(f).

(i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not 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).

(ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(2) A new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of §63.6645(f) and the requirements of §§63.6625(c), 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.

(3) The following stationary RICE do not have to meet the requirements of this subpart and of subpart A of this part, including initial notification requirements:

(i) Existing spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(ii) Existing spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(iii) Existing emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that does not operate or is not 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).

(iv) Existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions;

(v) Existing stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(c) *Stationary RICE subject to Regulations under 40 CFR Part 60.* An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of this section must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

(1) A new or reconstructed stationary RICE located at an area source:

***MHAFB has new stationary RICE and is located at an area source. Affected sources listed under Equipment ID must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part. Please see attached table for list of equipment subject to this subpart.***

(2) A new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

(3) A new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake HP located at a major source of HAP emissions;

(4) A new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

(5) A new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;

(6) A new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions;

(7) A new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010; 75 FR 51588, Aug. 20, 2010; 78 FR 6700, Jan. 30, 2013]

***MHAFB is not subject to this section with the exception of §§63.6590(a)(1)(iii), (a)(2)(iii), and (c)(1). Please see attached table for explanation of applicability to each subsection.***

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

(a) *Affected sources.*

(1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations, operating limitations and other requirements no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than May 3, 2013. If you have an existing stationary SI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.

***MHAFB maintains existing, stationary, emergency CI and SI RICE and existing, stationary, non-emergency SI RICE. Please see attached table for list of equipment subject to this subpart.***

(2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart no later than August 16, 2004.

(3) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions after August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(4) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

(5) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(6) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

***MHAFB is subject to this section since one of the new sources was started up before January 18, 2008. Please see attached table for list of equipment subject to this subpart.***

(7) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

***MHAFB is subject to this section since many of the new sources were started up after January 18, 2008. Please see attached table for list of equipment subject to this subpart.***

(b) *Area sources that become major sources.* If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in paragraphs (b)(1) and (2) of this section apply to you.

(1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with this subpart upon startup of your affected source.

(2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.

(c) If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR part 63, subpart A.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 78 FR 6701, Jan. 30, 2013]

***Please see attached table for explanation of applicability to each subsection.***

## EMISSION AND OPERATING LIMITATIONS

### **§63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?**

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

(a) If you own or operate an existing, new, or reconstructed spark ignition 4SRB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 1a to this subpart and the operating limitations in Table 1b to this subpart which apply to you.

(b) If you own or operate a new or reconstructed 2SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, a new or reconstructed 4SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, or a new or reconstructed CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

(c) If you own or operate any of the following stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart: an existing 2SLB stationary RICE; an existing 4SLB stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE.

(d) If you own or operate an existing non-emergency stationary CI RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission

limitations in Table 2c to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

***MHAFB is not a major source of HAP emissions so is not subject to this section.***

**§63.6601 What emission limitations must I meet if I own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than or equal to 500 brake HP located at a major source of HAP emissions?**

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart. If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at major source of HAP emissions manufactured on or after January 1, 2008, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

***MHAFB is not a major source of HAP emissions so is not subject to this section.***

**§63.6602 What emission limitations and other requirements must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?**

If you own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations and other requirements in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

[78 FR 6701, Jan. 30, 2013]

***MHAFB is not a major source of HAP emissions so is not subject to this section.***

**§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?**

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

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

***Table 2b does not apply to the existing emergency CI RICE at MHAFB and Table 2d does not establish numerical emission limits but does establish O&M requirements such as oil and filter changes. Refer to O&M requirements in Table 2d below.***

(b) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meets either paragraph (b)(1) or (2) of this section, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. Existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP that meet either paragraph (b)(1) or (2) of this section must meet the management practices that are shown for stationary non-emergency CI RICE with a site rating of less than or equal to 300 HP in Table 2d of this subpart.

(1) The area source is located in an area of Alaska that is not accessible by the Federal Aid Highway System (FAHS).

(2) The stationary RICE is located at an area source that meets paragraphs (b)(2)(i), (ii), and (iii) of this section.

(i) The only connection to the FAHS is through the Alaska Marine Highway System (AMHS), or the stationary RICE operation is within an isolated grid in Alaska that is not connected to the statewide electrical grid referred to as the Alaska Railbelt Grid.

(ii) At least 10 percent of the power generated by the stationary RICE on an annual basis is used for residential purposes.

(iii) The generating capacity of the area source is less than 12 megawatts, or the stationary RICE is used exclusively for backup power for renewable energy.

(c) If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located on an offshore vessel that is an area source of HAP and is a nonroad vehicle that is an Outer Continental Shelf (OCS) source as defined in 40 CFR 55.2, you do not have to meet the numerical CO emission limitations specified in Table 2d of this subpart. You must meet all of the following management practices:

(1) Change oil every 1,000 hours of operation or annually, whichever comes first. Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement.

(2) Inspect and clean air filters every 750 hours of operation or annually, whichever comes first, and replace as necessary.

(3) Inspect fuel filters and belts, if installed, every 750 hours of operation or annually, whichever comes first, and replace as necessary.

(4) Inspect all flexible hoses every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.

(d) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and that is subject to an enforceable state or local standard that requires the engine to be replaced no later than June 1, 2018, you may until January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018, choose to comply with the management practices that are shown for stationary non-emergency CI RICE with a site rating of less than or equal to 300 HP in Table 2d of this subpart instead of the applicable emission limitations in Table 2d, operating limitations in Table 2b, and crankcase ventilation system requirements in §63.6625(g). You must comply with the emission limitations in Table 2d and operating limitations in Table 2b that apply for non-emergency CI RICE with a site

rating of more than 300 HP located at an area source of HAP emissions by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018. You must also comply with the crankcase ventilation system requirements in §63.6625(g) by January 1, 2015, or 12 years after the installation date of the engine (whichever is later), but not later than June 1, 2018.

(e) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 3 (Tier 2 for engines above 560 kilowatt (kW)) emission standards in Table 1 of 40 CFR 89.112, you may comply with the requirements under this part by meeting the requirements for Tier 3 engines (Tier 2 for engines above 560 kW) in 40 CFR part 60 subpart IIII instead of the emission limitations and other requirements that would otherwise apply under this part for existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions.

(f) An existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP must meet the definition of remote stationary RICE in §63.6675 on the initial compliance date for the engine, October 19, 2013, in order to be considered a remote stationary RICE under this subpart. Owners and operators of existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that meet the definition of remote stationary RICE in §63.6675 of this subpart as of October 19, 2013 must evaluate the status of their stationary RICE every 12 months. Owners and operators must keep records of the initial and annual evaluation of the status of the engine. If the evaluation indicates that the stationary RICE no longer meets the definition of remote stationary RICE in §63.6675 of this subpart, the owner or operator must comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation.

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6701, Jan. 30, 2013]

***Please see attached table for explanation of applicability to each subsection.***

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

(a) If you own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel.

(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.

(c) Beginning January 1, 2015, if you own or operate a new emergency CI stationary RICE with a site rating of more than 500 brake HP and a displacement of less than 30 liters per cylinder located at a major source of HAP 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), 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.

(d) Existing CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, at area sources in areas of Alaska that meet either §63.6603(b)(1) or §63.6603(b)(2), or are on offshore vessels that meet §63.6603(c) are exempt from the requirements of this section.

[78 FR 6702, Jan. 30, 2013]

*Please see attached table for explanation of applicability to each subsection.*

## GENERAL COMPLIANCE REQUIREMENTS

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

(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.

(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.

***MHAFB is subject to the O&M requirements for the emergency CI RICE, emergency SI RICE, and non-emergency SI RICE. Refer to the applicable requirements in Table 2d.***

[75 FR 9675, Mar. 3, 2010, as amended at 78 FR 6702, Jan. 30, 2013]

## TESTING AND INITIAL COMPLIANCE REQUIREMENTS

### **§63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?**

If you own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct the initial performance test or other initial compliance demonstrations in Table 4 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).

(b) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must demonstrate initial compliance with either the proposed emission limitations or the promulgated emission limitations no later than February 10, 2005 or no later than 180 days after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(c) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, and you chose to comply with the proposed emission limitations

when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limitations by December 13, 2007 or after startup of the source, whichever is later, according to §63.7(a)(2)(ix).

(d) An owner or operator is not required to conduct an initial performance test on units for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (d)(1) through (5) of this section.

(1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.

(2) The test must not be older than 2 years.

(3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

(5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3605, Jan. 18, 2008]

***MHAFB is not a major source of HAP emissions so is not subject to this section.***

**§63.6611 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a new or reconstructed 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?**

If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must conduct an initial performance test within 240 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions specified in Table 4 to this subpart, as appropriate.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 51589, Aug. 20, 2010]

***MHAFB is not a major source of HAP emissions so is not subject to this section.***

**§63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?**

If you own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).

(b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.

(1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.

(2) The test must not be older than 2 years.

(3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

[75 FR 9676, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

***MHAFB is not subject to perform performance testing for emergency engine generators since there are no applicable emission limit requirements.***

#### **§63.6615 When must I conduct subsequent performance tests?**

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

***MHAFB is not subject to perform performance testing for emergency engine generators since there are no applicable emission limit requirements.***

#### **§63.6620 What performance tests and other procedures must I use?**

(a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.

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

(1) Non-emergency 4SRB stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.

(2) New non-emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP located at a major source of HAP emissions.

(3) New non-emergency 2SLB stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.

(4) New non-emergency CI stationary RICE with a site rating of greater than 500 brake HP located at a major source of HAP emissions.

(c) [Reserved]

(d) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour, unless otherwise specified in this subpart.

(e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \quad (\text{Eq. 1})$$

Where:

$C_i$  = concentration of carbon monoxide (CO), total hydrocarbons (THC), or formaldehyde at the control device inlet,

$C_o$  = concentration of CO, THC, or formaldehyde at the control device outlet, and

$R$  = percent reduction of CO, THC, or formaldehyde emissions.

(2) You must normalize the CO, THC, or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO<sub>2</sub>). If pollutant concentrations are to be corrected to 15 percent oxygen and CO<sub>2</sub> concentration is measured in lieu of oxygen concentration measurement, a CO<sub>2</sub> correction factor is needed. Calculate the CO<sub>2</sub> correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

(i) Calculate the fuel-specific  $F_o$  value for the fuel burned during the test using values obtained from Method 19, Section 5.2, and the following equation:

$$F_o = \frac{0.209 F_d}{F_c} \quad (\text{Eq. 2})$$

Where:

$F_o$  = Fuel factor based on the ratio of oxygen volume to the ultimate CO<sub>2</sub> volume produced by the fuel at zero percent excess air.

0.209 = Fraction of air that is oxygen, percent/100.

$F_d$  = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup>/J (dscf/10<sup>6</sup> Btu).

$F_c$  = Ratio of the volume of CO<sub>2</sub> produced to the gross calorific value of the fuel from Method 19, dsm<sup>3</sup>/J (dscf/10<sup>6</sup> Btu)

(ii) Calculate the CO<sub>2</sub> correction factor for correcting measurement data to 15 percent O<sub>2</sub>, as follows:

$$X_{CO_2} = \frac{5.9}{F_O} \quad (\text{Eq. 3})$$

Where:

$X_{CO_2}$  = CO<sub>2</sub> correction factor, percent.

5.9 = 20.9 percent O<sub>2</sub>—15 percent O<sub>2</sub>, the defined O<sub>2</sub> correction value, percent.

(iii) Calculate the CO, THC, and formaldehyde gas concentrations adjusted to 15 percent O<sub>2</sub> using CO<sub>2</sub> as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2} \quad (\text{Eq. 4})$$

Where:

$C_{adj}$  = Calculated concentration of CO, THC, or formaldehyde adjusted to 15 percent O<sub>2</sub>

$C_d$  = Measured concentration of CO, THC, or formaldehyde, uncorrected.

$X_{CO_2}$  = CO<sub>2</sub> correction factor, percent.

%CO<sub>2</sub> = Measured CO<sub>2</sub> concentration measured, dry basis, percent.

(f) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the petition has been approved by the Administrator.

(g) If you petition the Administrator for approval of operating limitations, your petition must include the information described in paragraphs (g)(1) through (5) of this section.

- (1) Identification of the specific parameters you propose to use as operating limitations;
- (2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;
- (3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;
- (4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and
- (5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

(h) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in paragraphs (h)(1) through (7) of this section.

(1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (e.g., operator adjustment, automatic controller adjustment, etc.) or unintentionally (e.g., wear and tear, error, etc.) on a routine basis or over time;

(2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;

(3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions;

(4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower values for the parameters which would establish limits on the parameters in operating limitations;

(5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;

(6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and

(7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.

(i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9676, Mar. 3, 2010; 78 FR 6702, Jan. 30, 2013]

***MHAFB is not subject to perform performance testing for emergency engine generators since there are no applicable emission limit requirements.***

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

(a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either O<sub>2</sub> or CO<sub>2</sub> according to the requirements in paragraphs (a)(1) through (4) of this section. If you are meeting a requirement to reduce CO emissions, the CEMS must be installed at both the inlet and outlet of the control device. If you are

meeting a requirement to limit the concentration of CO, the CEMS must be installed at the outlet of the control device.

(1) Each CEMS must be installed, operated, and maintained according to the applicable performance specifications of 40 CFR part 60, appendix B.

(2) You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in §63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.

(3) As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.

(4) The CEMS data must be reduced as specified in §63.8(g)(2) and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO<sub>2</sub> concentration.

(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in paragraphs (b)(1) through (6) of this section. For an affected source that is complying with the emission limitations and operating limitations on March 9, 2011, the requirements in paragraph (b) of this section are applicable September 6, 2011.

(1) You must prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and the quality assurance and quality control elements outlined in paragraphs (b)(1)(i) through (v) of this section and in §63.8(d). As specified in §63.8(f)(4), you may request approval of monitoring system quality assurance and quality control procedures alternative to those specified in paragraphs (b)(1) through (5) of this section in your site-specific monitoring plan.

(i) The performance criteria and design specifications for the monitoring system equipment, including the sample interface, detector signal analyzer, and data acquisition and calculations;

(ii) Sampling interface (*e.g.*, thermocouple) location such that the monitoring system will provide representative measurements;

(iii) Equipment performance evaluations, system accuracy audits, or other audit procedures;

(iv) Ongoing operation and maintenance procedures in accordance with provisions in §63.8(c)(1)(ii) and (c)(3); and

(v) Ongoing reporting and recordkeeping procedures in accordance with provisions in §63.10(c), (e)(1), and (e)(2)(i).

(2) You must install, operate, and maintain each CPMS in continuous operation according to the procedures in your site-specific monitoring plan.

(3) The CPMS must collect data at least once every 15 minutes (see also §63.6635).

- (4) For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 degrees Celsius (5 degrees Fahrenheit) or 1 percent of the measurement range, whichever is larger.
- (5) You must conduct the CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in your site-specific monitoring plan at least annually.
- (6) You must conduct a performance evaluation of each CPMS in accordance with your site-specific monitoring plan.
- (c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must monitor and record your fuel usage daily with separate fuel meters to measure the volumetric flow rate of each fuel. In addition, you must operate your stationary RICE in a manner which reasonably minimizes HAP emissions.
- (d) If you are operating a new or reconstructed emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter prior to the startup of the engine.
- (e) If you own or operate any of the following stationary RICE, you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions:

***MHAFB complies with this requirement.***

- (1) An existing stationary RICE with a site rating of less than 100 HP located at a major source of HAP emissions;
- (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 HP located at a major source of HAP emissions;
- (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;

***MHAFB is subject to this requirement.***

- (4) An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions;
- (5) An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions;
- (6) An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.
- (7) An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;

***MHAFB is subject to this requirement.***

(8) An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions;

(9) An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and

(10) An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.

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

***MHAFB complies with this requirement.***

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

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

***MHAFB is subject to this requirement.***

(i) If you own or operate a stationary CI engine that is subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed

by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 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.

***MHAFB is subject to this requirement.***

(j) If you own or operate a stationary SI engine that is subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or in items 5, 6, 7, 9, or 11 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid 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.

***MHAFB is subject to this requirement.***

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011; 78 FR 6703, Jan. 30, 2013]

### **§63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?**

(a) You must demonstrate initial compliance with each emission limitation, operating limitation, and other requirement that applies to you according to Table 5 of this subpart.

***There are no applicable requirements in Table 5 that apply to MHAFB emergency or non-emergency engine generators.***

(b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.

(c) You must submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in §63.6645.

(d) Non-emergency 4SRB stationary RICE complying with the requirement to reduce formaldehyde emissions by 76 percent or more can demonstrate initial compliance with the formaldehyde emission limit by testing for THC instead of formaldehyde. The testing must be conducted according

to the requirements in Table 4 of this subpart. The average reduction of emissions of THC determined from the performance test must be equal to or greater than 30 percent.

(e) The initial compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements:

- (1) The compliance demonstration must consist of at least three test runs.
- (2) Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to this subpart must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.
- (3) If you are demonstrating compliance with the CO concentration or CO percent reduction requirement, you must measure CO emissions using one of the CO measurement methods specified in Table 4 of this subpart, or using appendix A to this subpart.
- (4) If you are demonstrating compliance with the THC percent reduction requirement, you must measure THC emissions using Method 25A, reported as propane, of 40 CFR part 60, appendix A.
- (5) You must measure O<sub>2</sub> using one of the O<sub>2</sub> measurement methods specified in Table 4 of this subpart. Measurements to determine O<sub>2</sub> concentration must be made at the same time as the measurements for CO or THC concentration.
- (6) If you are demonstrating compliance with the CO or THC percent reduction requirement, you must measure CO or THC emissions and O<sub>2</sub> emissions simultaneously at the inlet and outlet of the control device.

[69 FR 33506, June 15, 2004, as amended at 78 FR 6704, Jan. 30, 2013]

***Please see attached table for explanation of applicability to each subsection.***

## CONTINUOUS COMPLIANCE REQUIREMENTS

### **§63.6635 How do I monitor and collect data to demonstrate continuous compliance?**

- (a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.
- (b) Except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities, you must monitor continuously at all times that the stationary RICE is operating. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

[69 FR 33506, June 15, 2004, as amended at 76 FR 12867, Mar. 9, 2011]

***MHAFB is not subject to this section since it does not have sources that require continuous compliance in the form of monitoring and collection of data.***

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

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

***MHAFB is subject to this section. Based on Condition 9 in Table 6 below, MHAFB must demonstrate continuous compliance of work or management practice requirements by:***

***i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or***

***ii. Develop and follow 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***

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

(c) The annual compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements:

(1) The compliance demonstration must consist of at least one test run.

(2) Each test run must be of at least 15 minute duration, except that each test conducted using the method in appendix A to this subpart must consist of at least one measurement cycle and include at least 2 minutes of test data phase measurement.

(3) If you are demonstrating compliance with the CO concentration or CO percent reduction requirement, you must measure CO emissions using one of the CO measurement methods specified in Table 4 of this subpart, or using appendix A to this subpart.

(4) If you are demonstrating compliance with the THC percent reduction requirement, you must measure THC emissions using Method 25A, reported as propane, of 40 CFR part 60, appendix A.

(5) You must measure O<sub>2</sub> using one of the O<sub>2</sub> measurement methods specified in Table 4 of this subpart. Measurements to determine O<sub>2</sub> concentration must be made at the same time as the measurements for CO or THC concentration.

(6) If you are demonstrating compliance with the CO or THC percent reduction requirement, you must measure CO or THC emissions and O<sub>2</sub> emissions simultaneously at the inlet and outlet of the control device.

(7) If the results of the annual compliance demonstration show that the emissions exceed the levels specified in Table 6 of this subpart, the stationary RICE must be shut down as soon as safely possible, and appropriate corrective action must be taken (e.g., repairs, catalyst cleaning, catalyst replacement). The stationary RICE must be retested within 7 days of being restarted and the emissions must meet the levels specified in Table 6 of this subpart. If the retest shows that the emissions continue to exceed the specified levels, the stationary RICE must again be shut down as soon as safely possible, and the stationary RICE may not operate, except for purposes of startup and testing, until the owner/operator demonstrates through testing that the emissions do not exceed the levels specified in Table 6 of this subpart.

(d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

(f) If you own or operate an emergency stationary RICE, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1) through (4) of this section. In order for the engine to be considered an emergency stationary RICE under this subpart, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1) through (4) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1) through (4) of this section, the engine will not be considered an emergency engine under this subpart and must meet all requirements for non-emergency engines.

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

(2) You may operate your emergency stationary RICE for any combination of the purposes specified in paragraphs (f)(2)(i) through (iii) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraphs (f)(3) and (4) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2).

(i) Emergency stationary RICE may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year.

(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.

(3) Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. The 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(4) Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in paragraph (f)(2) of this section. Except as provided in paragraphs (f)(4)(i) and (ii) of this section, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

(i) Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for a facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.

(ii) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6704, Jan. 30, 2013]

***MHAFB is subject to this section. Please see attached table for explanation of applicability to each subsection.***

## NOTIFICATIONS, REPORTS, AND RECORDS

### **§63.6645 What notifications must I submit and when?**

(a) You must submit all of the notifications in §§63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following;

(1) An existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

(2) An existing stationary RICE located at an area source of HAP emissions.

***MHAFB is located at an area source of HAP; however MHAFB is not subject to this section per §63.6645(a)(5)***

(3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.

(5) This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.

**MHAFB has sources that meet these criteria and therefore the notifications in § 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) are not required.**

(b) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004.

(c) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(d) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and you are required to submit an initial notification, you must submit an Initial Notification not later than July 16, 2008.

(e) If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and you are required to submit an initial notification, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with §63.6590(b), your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

(g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in §63.7(b)(1).

(h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to §63.9(h)(2)(ii).

(1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

(i) If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions that is certified to the Tier 1 or Tier 2 emission standards in Table 1 of 40 CFR 89.112 and subject to an enforceable state or local standard requiring engine replacement and you intend to meet management practices rather than emission limits, as specified in §63.6603(d), you must submit a notification by March 3, 2013, stating that you intend to use the provision in §63.6603(d) and identifying the state or local regulation that the engine is subject to.

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010; 78 FR 6705, Jan. 30, 2013]

***Please see attached table for explanation of applicability to each subsection.***

**§63.6650 What reports must I submit and when?**

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

(b) Unless the Administrator has approved a different schedule for submission of reports under §63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

(6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.

(7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63.6595.

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

(9) For annual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than January 31.

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

(1) Company name and address.

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

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

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

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

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

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

(g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.

(1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis.

(2) The operating limits provided in your federally enforceable permit, and any deviations from these limits.

(3) Any problems or errors suspected with the meters.

(h) If you own or operate an emergency stationary RICE with a site rating of more than 100 brake HP that operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii), you must submit an annual report according to the requirements in paragraphs (h)(1) through (3) of this section.

(1) The report must contain the following information:

(i) Company name and address where the engine is located.

(ii) Date of the report and beginning and ending dates of the reporting period.

(iii) Engine site rating and model year.

(iv) Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.

(v) Hours operated for the purposes specified in §63.6640(f)(2)(ii) and (iii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(2)(ii) and (iii).

(vi) Number of hours the engine is contractually obligated to be available for the purposes specified in §63.6640(f)(2)(ii) and (iii).

(vii) Hours spent for operation for the purpose specified in §63.6640(f)(4)(ii), including the date, start time, and end time for engine operation for the purposes specified in §63.6640(f)(4)(ii). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

(viii) If there were no deviations from the fuel requirements in §63.6604 that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.

(ix) If there were deviations from the fuel requirements in §63.6604 that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

(2) The first annual report must cover the calendar year 2015 and must be submitted no later than March 31, 2016. Subsequent annual reports for each calendar year must be submitted no later than March 31 of the following calendar year.

(3) The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) ([www.epa.gov/cdx](http://www.epa.gov/cdx)). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §63.13.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010; 78 FR 6705, Jan. 30, 2013]

***MHAFB is not subject to this requirement. Please see attached table for explanation of applicability to each subsection.***

#### **§63.6655 What records must I keep?**

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in §63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.

(1) Records described in §63.10(b)(2)(vi) through (xi).

(2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in §63.8(d)(3).

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in §63.8(f)(6)(i), if applicable.

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

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

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

(1) An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.

(2) An existing stationary emergency RICE.

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

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) through (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for the purposes specified in §63.6640(f)(2)(ii) or (iii) or §63.6640(f)(4)(ii), 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.

(1) An existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.

(2) An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 78 FR 6706, Jan. 30, 2013]

***MHAFB is subject to this requirement. Please see attached table for explanation of applicability to each subsection.***

**§63.6660 In what form and how long must I keep my records?**

(a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to §63.10(b)(1).

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

***MHAFB is subject to this requirement.***

**OTHER REQUIREMENTS AND INFORMATION**

**§63.6665 What parts of the General Provisions apply to me?**

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE.

[75 FR 9678, Mar. 3, 2010]

***MHAFB is subject to this section. MHAFB does not need to comply with General Provisions for new stationary RICE; however, MHAFB must comply with General Provision for existing stationary RICE.***

**§63.6670 Who implements and enforces this subpart?**

(a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and

enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are:

(1) Approval of alternatives to the non-opacity emission limitations and operating limitations in §63.6600 under §63.6(g).

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f) and as defined in §63.90.

(3) Approval of major alternatives to monitoring under §63.8(f) and as defined in §63.90.

(4) Approval of major alternatives to recordkeeping and reporting under §63.10(f) and as defined in §63.90.

(5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in §63.6610(b).

***MHAFB is not subject to this section. Please see attached table for explanation of applicability to each subsection.***

#### **§63.6675 What definitions apply to this subpart?**

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section as follows:

*Alaska Railbelt Grid* means the service areas of the six regulated public utilities that extend from Fairbanks to Anchorage and the Kenai Peninsula. These utilities are Golden Valley Electric Association; Chugach Electric Association; Matanuska Electric Association; Homer Electric Association; Anchorage Municipal Light & Power; and the City of Seward Electric System.

*Area source* means any stationary source of HAP that is not a major source as defined in part 63.

*Associated equipment* as used in this subpart and as referred to in section 112(n)(4) of the CAA, means equipment associated with an oil or natural gas exploration or production well, and includes all equipment from the well bore to the point of custody transfer, except glycol dehydration units, storage vessels with potential for flash emissions, combustion turbines, and stationary RICE.

*Backup power for renewable energy* means an engine that provides backup power to a facility that generates electricity from renewable energy resources, as that term is defined in Alaska Statute 42.45.045(l)(5) (incorporated by reference, see §63.14).

*Black start engine* means an engine whose only purpose is to start up a combustion turbine.

*CAA* means the Clean Air Act (42 U.S.C. 7401 *et seq.*, as amended by Public Law 101-549, 104 Stat. 2399).

*Commercial emergency stationary RICE* means an emergency stationary RICE used in commercial establishments such as office buildings, hotels, stores, telecommunications facilities, restaurants, financial institutions such as banks, doctor's offices, and sports and performing arts facilities.

*Compression ignition* means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

*Custody transfer* means the transfer of hydrocarbon liquids or natural gas: After processing and/or treatment in the producing operations, or from storage vessels or automatic transfer facilities or other such equipment, including product loading racks, to pipelines or any other forms of transportation. For the purposes of this subpart, the point at which such liquids or natural gas enters a natural gas processing plant is a point of custody transfer.

*Deviation* means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless of whether or not such failure is permitted by this subpart.

(4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

*Diesel engine* means any stationary RICE in which a high boiling point liquid fuel injected into the combustion chamber ignites when the air charge has been compressed to a temperature sufficiently high for auto-ignition. This process is also known as compression ignition.

*Diesel fuel* means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is fuel oil number 2. Diesel fuel also includes any non-distillate fuel with comparable physical and chemical properties (e.g. biodiesel) that is suitable for use in compression ignition engines.

*Digester gas* means any gaseous by-product of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and CO<sub>2</sub>.

*Dual-fuel engine* means any stationary RICE in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel.

*Emergency stationary RICE* means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary RICE must comply with the requirements specified in §63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in §63.6640(f), then it is not considered to be an emergency stationary RICE under this subpart.

(1) The stationary RICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or

the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc.

(2) The stationary RICE is operated under limited circumstances for situations not included in paragraph (1) of this definition, as specified in §63.6640(f).

(3) The stationary RICE operates as part of a financial arrangement with another entity in situations not included in paragraph (1) of this definition only as allowed in §63.6640(f)(2)(ii) or (iii) and §63.6640(f)(4)(i) or (ii).

*Engine startup* means the time from initial start until applied load and engine and associated equipment reaches steady state or normal operation. For stationary engine with catalytic controls, engine startup means the time from initial start until applied load and engine and associated equipment, including the catalyst, reaches steady state or normal operation.

*Four-stroke engine* means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

*Gaseous fuel* means a material used for combustion which is in the gaseous state at standard atmospheric temperature and pressure conditions.

*Gasoline* means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

*Glycol dehydration unit* means a device in which a liquid glycol (including, but not limited to, ethylene glycol, diethylene glycol, or triethylene glycol) absorbent directly contacts a natural gas stream and absorbs water in a contact tower or absorption column (absorber). The glycol contacts and absorbs water vapor and other gas stream constituents from the natural gas and becomes "rich" glycol. This glycol is then regenerated in the glycol dehydration unit reboiler. The "lean" glycol is then recycled.

*Hazardous air pollutants (HAP)* means any air pollutants listed in or pursuant to section 112(b) of the CAA.

*Institutional emergency stationary RICE* means an emergency stationary RICE used in institutional establishments such as medical centers, nursing homes, research centers, institutions of higher education, correctional facilities, elementary and secondary schools, libraries, religious establishments, police stations, and fire stations.

*ISO standard day conditions* means 288 degrees Kelvin (15 degrees Celsius), 60 percent relative humidity and 101.3 kilopascals pressure.

*Landfill gas* means a gaseous by-product of the land application of municipal refuse typically formed through the anaerobic decomposition of waste materials and composed principally of methane and CO<sub>2</sub>.

*Lean burn engine* means any two-stroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

*Limited use stationary RICE* means any stationary RICE that operates less than 100 hours per year.

*Liquefied petroleum gas* means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining or natural gas production.

*Liquid fuel* means any fuel in liquid form at standard temperature and pressure, including but not limited to diesel, residual/crude oil, kerosene/naphtha (jet fuel), and gasoline.

*Major Source*, as used in this subpart, shall have the same meaning as in §63.2, except that:

(1) Emissions from any oil or gas exploration or production well (with its associated equipment (as defined in this section)) and emissions from any pipeline compressor station or pump station shall not be aggregated with emissions from other similar units, to determine whether such emission points or stations are major sources, even when emission points are in a contiguous area or under common control;

(2) For oil and gas production facilities, emissions from processes, operations, or equipment that are not part of the same oil and gas production facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated;

(3) For production field facilities, only HAP emissions from glycol dehydration units, storage vessel with the potential for flash emissions, combustion turbines and reciprocating internal combustion engines shall be aggregated for a major source determination; and

(4) Emissions from processes, operations, and equipment that are not part of the same natural gas transmission and storage facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated.

*Malfunction* means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

*Natural gas* means a naturally occurring mixture of hydrocarbon and non-hydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

*Non-selective catalytic reduction (NSCR)* means an add-on catalytic nitrogen oxides (NO<sub>x</sub>) control device for rich burn engines that, in a two-step reaction, promotes the conversion of excess oxygen, NO<sub>x</sub>, CO, and volatile organic compounds (VOC) into CO<sub>2</sub>, nitrogen, and water.

*Oil and gas production facility* as used in this subpart means any grouping of equipment where hydrocarbon liquids are processed, upgraded (*i.e.*, remove impurities or other constituents to meet contract specifications), or stored prior to the point of custody transfer; or where natural gas is processed, upgraded, or stored prior to entering the natural gas transmission and storage source category. For purposes of a major source determination, facility (including a building, structure, or installation) means oil and natural gas production and processing equipment that is located within the boundaries of an individual surface site as defined in this section. Equipment that is part of a facility will typically be located within close proximity to other equipment located at the same facility. Pieces of production equipment or groupings of equipment located on different oil and gas leases, mineral fee tracts, lease tracts, subsurface or surface unit areas, surface fee tracts, surface lease tracts, or separate surface sites, whether or not connected by a road, waterway, power line or pipeline, shall not be considered part of the same facility. Examples of facilities in the oil and natural gas production source category include, but are not limited to, well sites, satellite tank batteries, central tank batteries, a compressor station that transports natural gas to a natural gas processing plant, and natural gas processing plants.

*Oxidation catalyst* means an add-on catalytic control device that controls CO and VOC by oxidation.

*Peaking unit or engine* means any standby engine intended for use during periods of high demand that are not emergencies.

*Percent load* means the fractional power of an engine compared to its maximum manufacturer's design capacity at engine site conditions. Percent load may range between 0 percent to above 100 percent.

*Potential to emit* means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the stationary source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. For oil and natural gas production facilities subject to subpart HH of this part, the potential to emit provisions in §63.760(a) may be used. For natural gas transmission and storage facilities subject to subpart HHH of this part, the maximum annual facility gas throughput for storage facilities may be determined according to §63.1270(a)(1) and the maximum annual throughput for transmission facilities may be determined according to §63.1270(a)(2).

*Production field facility* means those oil and gas production facilities located prior to the point of custody transfer.

*Production well* means any hole drilled in the earth from which crude oil, condensate, or field natural gas is extracted.

*Propane* means a colorless gas derived from petroleum and natural gas, with the molecular structure C<sub>3</sub>H<sub>8</sub>.

*Remote stationary RICE* means stationary RICE meeting any of the following criteria:

(1) Stationary RICE located in an offshore area that is beyond the line of ordinary low water along that portion of the coast of the United States that is in direct contact with the open seas and beyond the line marking the seaward limit of inland waters.

(2) Stationary RICE located on a pipeline segment that meets both of the criteria in paragraphs (2)(i) and (ii) of this definition.

(i) A pipeline segment with 10 or fewer buildings intended for human occupancy and no buildings with four or more stories within 220 yards (200 meters) on either side of the centerline of any continuous 1-mile (1.6 kilometers) length of pipeline. Each separate dwelling unit in a multiple dwelling unit building is counted as a separate building intended for human occupancy.

(ii) The pipeline segment does not lie within 100 yards (91 meters) of either a building or a small, well-defined outside area (such as a playground, recreation area, outdoor theater, or other place of public assembly) that is occupied by 20 or more persons on at least 5 days a week for 10 weeks in any 12-month period. The days and weeks need not be consecutive. The building or area is considered occupied for a full day if it is occupied for any portion of the day.

(iii) For purposes of this paragraph (2), the term pipeline segment means all parts of those physical facilities through which gas moves in transportation, including but not limited to pipe, valves, and other appurtenance attached to pipe, compressor units, metering stations, regulator stations, delivery stations, holders, and fabricated assemblies. Stationary RICE located within 50 yards (46 meters) of the pipeline segment providing power for equipment on a pipeline segment are part of the pipeline segment. Transportation of gas means the gathering, transmission, or distribution of gas by pipeline, or the storage

of gas. A building is intended for human occupancy if its primary use is for a purpose involving the presence of humans.

(3) Stationary RICE that are not located on gas pipelines and that have 5 or fewer buildings intended for human occupancy and no buildings with four or more stories within a 0.25 mile radius around the engine. A building is intended for human occupancy if its primary use is for a purpose involving the presence of humans.

*Residential emergency stationary RICE* means an emergency stationary RICE used in residential establishments such as homes or apartment buildings.

*Responsible official* means responsible official as defined in 40 CFR 70.2.

*Rich burn engine* means any four-stroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to December 19, 2002 with passive emission control technology for NO<sub>x</sub> (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

*Site-rated HP* means the maximum manufacturer's design capacity at engine site conditions.

*Spark ignition* means relating to either: A gasoline-fueled engine; or any other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

*Stationary reciprocating internal combustion engine (RICE)* means any reciprocating internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

*Stationary RICE test cell/stand* means an engine test cell/stand, as defined in subpart P of this part, that tests stationary RICE.

*Stoichiometric* means the theoretical air-to-fuel ratio required for complete combustion.

*Storage vessel with the potential for flash emissions* means any storage vessel that contains a hydrocarbon liquid with a stock tank gas-to-oil ratio equal to or greater than 0.31 cubic meters per liter and an American Petroleum Institute gravity equal to or greater than 40 degrees and an actual annual average hydrocarbon liquid throughput equal to or greater than 79,500 liters per day. Flash emissions occur when dissolved hydrocarbons in the fluid evolve from solution when the fluid pressure is reduced.

*Subpart* means 40 CFR part 63, subpart ZZZZ.

*Surface site* means any combination of one or more graded pad sites, gravel pad sites, foundations, platforms, or the immediate physical location upon which equipment is physically affixed.

*Two-stroke engine* means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010; 76 FR 12867, Mar. 9, 2011; 78 FR 6706, Jan. 30, 2013]

**MHAFB is subject to this section.**

**Table 1a to Subpart ZZZZ of Part 63—Emission Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions**

As stated in §§63.6600 and 63.6640, you must comply with the following emission limitations at 100 percent load plus or minus 10 percent for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions:

For each . . .	You must meet the following emission limitation, except during periods of startup . . .	During periods of startup you must . . .
1. 4SRB stationary RICE	a. Reduce formaldehyde emissions by 76 percent or more. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may reduce formaldehyde emissions by 75 percent or more until June 15, 2007 or	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. <sup>1</sup>
	b. Limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O <sub>2</sub>	

<sup>1</sup> Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9679, Mar. 3, 2010, as amended at 75 FR 51592, Aug. 20, 2010]

**MHAFB is not a Major Source so is not subject to Table 1a.**

**Table 1b to Subpart ZZZZ of Part 63—Operating Limitations for Existing, New, and Reconstructed SI 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions**

As stated in §§63.6600, 63.6603, 63.6630 and 63.6640, you must comply with the following operating limitations for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions:

For each . . .	You must meet the following operating limitation, except during periods of startup . . .
1. existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and using NSCR; or existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O <sub>2</sub> and using NSCR;	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial performance test; and b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 750 °F and less than or equal to 1250 °F. <sup>1</sup>
2. existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to reduce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and not using NSCR; or	Comply with any operating limitations approved by the Administrator.
existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O <sub>2</sub> and not using NSCR.	

<sup>1</sup>Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.

[78 FR 6706, Jan. 30, 2013]

***MHAFB is not a Major Source so is not subject to Table 1b.***

**Table 2a to Subpart ZZZZ of Part 63—Emission Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP and New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions**

As stated in §§63.6600 and 63.6640, you must comply with the following emission limitations for new and reconstructed lean burn and new and reconstructed compression ignition stationary RICE at 100 percent load plus or minus 10 percent:

For each	You must meet the following emission	During periods of startup you must
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. . .	<b>limitation, except during periods of startup . . .</b>	. . .
1. 2SLB stationary RICE	a. Reduce CO emissions by 58 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 12 ppmvd or less at 15 percent O <sub>2</sub> . If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may limit concentration of formaldehyde to 17 ppmvd or less at 15 percent O <sub>2</sub> until June 15, 2007	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. <sup>1</sup>
2. 4SLB stationary RICE	a. Reduce CO emissions by 93 percent or more; or	
	b. Limit concentration of formaldehyde in the stationary RICE exhaust to 14 ppmvd or less at 15 percent O <sub>2</sub>	
3. CI stationary RICE	a. Reduce CO emissions by 70 percent or more; or	
	b. Limit concentration of formaldehyde in the stationary RICE exhaust to 580 ppbvd or less at 15 percent O <sub>2</sub>	

<sup>1</sup>Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9680, Mar. 3, 2010]

***MHAFB is not a Major Source so is not subject to Table 2a.***

**Table 2b to Subpart ZZZZ of Part 63—Operating Limitations for New and Reconstructed 2SLB and CI Stationary RICE >500 HP Located at a Major Source of HAP Emissions, New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions, Existing CI Stationary RICE >500 HP**

As stated in §§63.6600, 63.6601, 63.6603, 63.6630, and 63.6640, you must comply with the following operating limitations for new and reconstructed 2SLB and CI stationary RICE >500 HP located at a major source of HAP emissions; new and reconstructed 4SLB stationary RICE ≥250 HP located at a major source of HAP emissions; and existing CI stationary RICE >500 HP:

<b>For each . . .</b>	<b>You must meet the following operating limitation, except during periods of startup</b>
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	. . .
<p>1. New and reconstructed 2SLB and CI stationary RICE &gt;500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE <math>\geq 250</math> HP located at a major source of HAP emissions complying with the requirement to reduce CO emissions and using an oxidation catalyst; and</p> <p>New and reconstructed 2SLB and CI stationary RICE &gt;500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE <math>\geq 250</math> HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and using an oxidation catalyst.</p>	<p>a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and</p> <p>b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.<sup>1</sup></p>
<p>2. Existing CI stationary RICE &gt;500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst</p>	<p>a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test; and</p>
	<p>b. maintain the temperature of your stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1350 °F.<sup>1</sup></p>
<p>3. New and reconstructed 2SLB and CI stationary RICE &gt;500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE <math>\geq 250</math> HP located at a major source of HAP emissions complying with the requirement to reduce CO emissions and not using an oxidation catalyst; and</p>	<p>Comply with any operating limitations approved by the Administrator.</p>
<p>New and reconstructed 2SLB and CI stationary RICE &gt;500 HP located at a major source of HAP emissions and new and reconstructed 4SLB stationary RICE <math>\geq 250</math> HP located at a major source of HAP emissions complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and not using an oxidation catalyst; and</p>	
<p>existing CI stationary RICE &gt;500 HP complying with the requirement to limit or reduce the concentration of CO in the stationary RICE exhaust and not using an oxidation</p>	

catalyst.	
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<sup>1</sup>Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(f) for a different temperature range.

[78 FR 6707, Jan. 30, 2013]

***MHAFB is not a Major Source so is not subject to Table 2b.***

**Table 2c to Subpart ZZZZ of Part 63—Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤500 HP Located at a Major Source of HAP Emissions**

As stated in §§63.6600, 63.6602, and 63.6640, you must comply with the following requirements for existing compression ignition stationary RICE located at a major source of HAP emissions and existing spark ignition stationary RICE ≤500 HP located at a major source of HAP emissions:

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
1. Emergency stationary CI RICE and black start stationary CI RICE <sup>1</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first. <sup>2</sup> b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <sup>3</sup>	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. <sup>3</sup>
2. Non-Emergency, non-black start stationary CI RICE <100 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first. <sup>2</sup> b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as	

	necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <sup>3</sup>	
3. Non-Emergency, non-black start CI stationary RICE 100≤HP≤300 HP	Limit concentration of CO in the stationary RICE exhaust to 230 ppmvd or less at 15 percent O <sub>2</sub> .	
4. Non-Emergency, non-black start CI stationary RICE 300<HP≤500	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd or less at 15 percent O <sub>2</sub> ; or b. Reduce CO emissions by 70 percent or more.	
5. Non-Emergency, non-black start stationary CI RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd or less at 15 percent O <sub>2</sub> ; or b. Reduce CO emissions by 70 percent or more.	
6. Emergency stationary SI RICE and black start stationary SI RICE. <sup>1</sup>	a. Change oil and filter every 500 hours of operation or annually, whichever comes first; <sup>2</sup> b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. <sup>3</sup>	
7. Non-Emergency, non-black start stationary SI RICE <100 HP that are not 2SLB stationary RICE	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; <sup>2</sup> b. Inspect spark plugs	

	every 1,440 hours of operation or annually, whichever comes first, and replace as necessary;	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. <sup>3</sup>	
8. Non-Emergency, non-black start 2SLB stationary SI RICE <100 HP	a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; <sup>2</sup> b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary;	
	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. <sup>3</sup>	
9. Non-emergency, non-black start 2SLB stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 225 ppmvd or less at 15 percent O <sub>2</sub> .	
10. Non-emergency, non-black start 4SLB stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd or less at 15 percent O <sub>2</sub> .	
11. Non-emergency, non-black start 4SRB stationary RICE 100≤HP≤500	Limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent O <sub>2</sub> .	
12. Non-emergency, non-black start stationary RICE 100≤HP≤500	Limit concentration of CO in the stationary RICE	

which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis	exhaust to 177 ppmvd or less at 15 percent O <sub>2</sub> .	
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<sup>1</sup>If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpart, or if performing the work practice on the required schedule would otherwise pose an unacceptable risk under federal, state, or local law, the work practice can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The work 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 work practice on the schedule required and the federal, state or local law under which the risk was deemed unacceptable.

<sup>2</sup>Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2c of this subpart.

<sup>3</sup>Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[78 FR 6708, Jan. 30, 2013, as amended at 78 FR 14457, Mar. 6, 2013]

***MHAFB is not a Major Source so is not subject to Table 2c.***

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

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

For each . . .	You must meet the following requirement, except during periods of startup . . .	During periods of startup you must . . .
1. Non-Emergency, non-black start CI stationary RICE ≤300 HP	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first; <sup>1</sup> b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first,	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

	and replace as necessary.	
2. Non-Emergency, non-black start CI stationary RICE 300<HP≤500	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O <sub>2</sub> ; or	
	b. Reduce CO emissions by 70 percent or more.	
3. Non-Emergency, non-black start CI stationary RICE >500 HP	a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O <sub>2</sub> ; or	
	b. Reduce CO emissions by 70 percent or more.	
4. <u>Emergency stationary CI RICE</u> and black start stationary CI RICE. <sup>2</sup>	a. <u>Change oil and filter every 500 hours of operation or annually, whichever comes first;</u> <sup>1</sup>	
	b. <u>Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and</u>	
	c. <u>Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</u>	
5. <u>Emergency stationary SI RICE</u> ; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year. <sup>2</sup>	a. <u>Change oil and filter every 500 hours of operation or annually, whichever comes first;</u> <sup>1</sup> b. <u>Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first, and replace as necessary; and</u> c. <u>Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</u>	
6. Non-emergency, non-black start 2SLB	a. Change oil and filter	

stationary RICE	every 4,320 hours of operation or annually, whichever comes first; <sup>1</sup>	
	b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.	
7. Non-emergency, non-black start 4SLB stationary RICE ≤500 HP	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; <sup>1</sup>	
	b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
8. Non-emergency, non-black start 4SLB remote stationary RICE >500 HP	a. Change oil and filter every 2,160 hours of operation or annually, whichever comes first; <sup>1</sup>	
	b. Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.	
9. Non-emergency, non-black start 4SLB stationary RICE >500 HP that are not	Install an oxidation catalyst to reduce HAP	

remote stationary RICE and that operate more than 24 hours per calendar year	emissions from the stationary RICE.	
10. Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	a. <u>Change oil and filter every 1,440 hours of operation or annually, whichever comes first;</u> <sup>1</sup>	
	b. <u>Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and</u>	
	c. <u>Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.</u>	
11. Non-emergency, non-black start 4SRB remote stationary RICE >500 HP	a. Change oil and filter every 2,160 hours of operation or annually, whichever comes first; <sup>1</sup>	
	b. Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.	
12. Non-emergency, non-black start 4SRB stationary RICE >500 HP that are not remote stationary RICE and that operate more than 24 hours per calendar year	Install NSCR to reduce HAP emissions from the stationary RICE.	
13. Non-emergency, non-black start stationary RICE which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; <sup>1</sup> b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace as necessary; and	
	c. Inspect all hoses and	

	belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	
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<sup>1</sup>Sources have the option to utilize an oil analysis program as described in §63.6625(i) or (j) in order to extend the specified oil change requirement in Table 2d of this subpart.

<sup>2</sup>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.

[78 FR 6709, Jan. 30, 2013]

**MHAFB is an Area Source and is subject to Sections 4, 5, and 10 of Table 2d.**

**Table 3 to Subpart ZZZZ of Part 63—Subsequent Performance Tests**

As stated in §§63.6615 and 63.6620, you must comply with the following subsequent performance test requirements:

For each . . .	Complying with the requirement to . . .	You must . . .
1. New or reconstructed 2SLB stationary RICE >500 HP located at major sources; new or reconstructed 4SLB stationary RICE ≥250 HP located at major sources; and new or reconstructed CI stationary RICE >500 HP located at major sources	Reduce CO emissions and not using a CEMS	Conduct subsequent performance tests semiannually. <sup>1</sup>
2. 4SRB stationary RICE ≥5,000 HP located at major sources	Reduce formaldehyde emissions	Conduct subsequent performance tests semiannually. <sup>1</sup>
3. Stationary RICE >500 HP located at major sources and new or reconstructed 4SLB stationary RICE 250≤HP≤500 located at major sources	Limit the concentration of formaldehyde in the stationary RICE exhaust	Conduct subsequent performance tests semiannually. <sup>1</sup>

4. Existing non-emergency, non-black start CI stationary RICE >500 HP that are not limited use stationary RICE	Limit or reduce CO emissions and not using a CEMS	Conduct subsequent performance tests every 8,760 hours or 3 years, whichever comes first.
5. Existing non-emergency, non-black start CI stationary RICE >500 HP that are limited use stationary RICE	Limit or reduce CO emissions and not using a CEMS	Conduct subsequent performance tests every 8,760 hours or 5 years, whichever comes first.

<sup>1</sup>After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[78 FR 6711, Jan. 30, 2013]

***MHAFB is not subject to perform performance testing for emergency engine generators since there are no applicable emission limit requirements.***

**Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests**

As stated in §§63.6610, 63.6611, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE:

**TABLE 4 TO SUBPART ZZZZ OF PART 63—REQUIREMENTS FOR PERFORMANCE TESTS**

For each . . .	Complying with the requirement to . . .	You must . . .	Using . . .	According to the following requirements . . .
1. 2SLB, 4SLB, and CI stationary RICE	a. reduce CO emissions	i. Select the sampling port location and the number/location of traverse points at the inlet and outlet of the control device; and		(a) For CO and O <sub>2</sub> measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter <i>and</i> the sampling port location meets

				the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A-1, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A-4.
		ii. Measure the O <sub>2</sub> at the inlet and outlet of the control device; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005) <sup>ac</sup> (heated probe not necessary)	(b) Measurements to determine O <sub>2</sub> must be made at the same time as the measurements for CO concentration.
		iii. Measure the CO at the inlet and the outlet of the control device	(1) ASTM D6522-00 (Reapproved 2005) <sup>abc</sup> (heated probe not necessary) or Method 10 of 40 CFR part 60, appendix A-4	(c) The CO concentration must be at 15 percent O <sub>2</sub> , dry basis.
2. 4SRB stationary RICE	a. reduce formaldehyde emissions	i. Select the sampling port location and the number/location of traverse points at the inlet and outlet of the control device; and		(a) For formaldehyde, O <sub>2</sub> , and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12 inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line (`3-point long line'). If the duct is >12 inches in diameter <i>and</i> the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A, the duct may be sampled at `3-point long line'; otherwise, conduct the stratification testing and select sampling points according to

				Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A.
		ii. Measure O <sub>2</sub> at the inlet and outlet of the control device; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005) <sup>a</sup> (heated probe not necessary)	(a) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for formaldehyde or THC concentration.
		iii. Measure moisture content at the inlet and outlet of the control device; and	(1) Method 4 of 40 CFR part 60, appendix A-3, or Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 <sup>a</sup>	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or THC concentration.
		iv. If demonstrating compliance with the formaldehyde percent reduction requirement, measure formaldehyde at the inlet and the outlet of the control device	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348-03 <sup>a</sup> , provided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130	(a) Formaldehyde concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
		v. If demonstrating compliance with the THC percent reduction requirement, measure THC at the inlet and the outlet of the control device	(1) Method 25A, reported as propane, of 40 CFR part 60, appendix A-7	(a) THC concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
3. Stationary RICE	a. limit the concentration of formaldehyde or CO in the stationary RICE	i. Select the sampling port location and the number/location of traverse points at the exhaust of the		(a) For formaldehyde, CO, O <sub>2</sub> , and moisture measurement, ducts ≤6 inches in diameter may be sampled at a single point located at the duct centroid and ducts >6 and ≤12

	exhaust	stationary RICE; and		inches in diameter may be sampled at 3 traverse points located at 16.7, 50.0, and 83.3% of the measurement line ('3-point long line'). If the duct is >12 inches in diameter <i>and</i> the sampling port location meets the two and half-diameter criterion of Section 11.1.1 of Method 1 of 40 CFR part 60, appendix A, the duct may be sampled at '3-point long line'; otherwise, conduct the stratification testing and select sampling points according to Section 8.1.2 of Method 7E of 40 CFR part 60, appendix A. If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O <sub>2</sub> concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A-2, or ASTM Method D6522-00 (Reapproved 2005) <sup>a</sup> (heated probe not necessary)	(a) Measurements to determine O <sub>2</sub> concentration must be made at the same time and location as the measurements for formaldehyde or CO concentration.
		iii. Measure moisture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR part 60, appendix A-3, or Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 <sup>a</sup>	(a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde or CO concentration.
		iv. Measure formaldehyde at the exhaust of the station-ary RICE; or	(1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348-03 <sup>a</sup> , provided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal	(a) Formaldehyde concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

			to 70 and less than or equal to 130	
		v. measure CO at the exhaust of the stationary RICE	(1) Method 10 of 40 CFR part 60, appendix A-4, ASTM Method D6522-00 (2005) <sup>ac</sup> , Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 <sup>a</sup>	(a) CO concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

<sup>a</sup>You may also use Methods 3A and 10 as options to ASTM-D6522-00 (2005). You may obtain a copy of ASTM-D6522-00 (2005) from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

<sup>b</sup>You may obtain a copy of ASTM-D6348-03 from at least one of the following addresses: American Society for Testing and Materials, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

[79 FR 11290, Feb. 27, 2014]

***MHAFB is not a major source of HAP emissions so is not subject to this section. See §§63.6610 and 63.6611.***

***MHAFB is not subject to perform performance testing for emergency engine generators since there are no applicable emission limit requirements. See §63.6620.***

***MHAFB is not subject to this Table. See §63.6640.***

**Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations, Operating Limitations, and Other Requirements**

As stated in §§63.6612, 63.6625 and 63.6630, you must initially comply with the emission and operating limitations as required by the following:

For each . . .	Complying with the requirement to . . .	You have demonstrated initial compliance if . . .
1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency	a. Reduce CO emissions and using oxidation catalyst, and using a CPMS	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor catalyst inlet

stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP		temperature according to the requirements in §63.6625(b); and iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
2. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Limit the concentration of CO, using oxidation catalyst, and using a CPMS	i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Reduce CO emissions and not using oxidation catalyst	i. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test.
4. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Limit the concentration of CO, and not using oxidation catalyst	i. The average CO concentration determined from the initial performance test is less than or equal to the CO emission limitation; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and

		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
5. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE $\geq$ 250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Reduce CO emissions, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O <sub>2</sub> or CO <sub>2</sub> at both the inlet and outlet of the oxidation catalyst according to the requirements in §63.6625(a); and ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and
		iii. The average reduction of CO calculated using §63.6620 equals or exceeds the required percent reduction. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average percent reduction achieved during the 4-hour period.
6. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP located at an area source of HAP	a. Limit the concentration of CO, and using a CEMS	i. You have installed a CEMS to continuously monitor CO and either O <sub>2</sub> or CO <sub>2</sub> at the outlet of the oxidation catalyst according to the requirements in §63.6625(a); and
		ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and
		iii. The average concentration of CO calculated using §63.6620 is less than or equal to the CO emission limitation. The initial test comprises the first 4-hour period after successful validation of the CEMS. Compliance is based on the average concentration measured during the 4-hour period.
7. Non-emergency 4SRB stationary RICE >500 HP located at a major source of	a. Reduce formaldehyde	i. The average reduction of emissions of formaldehyde determined from the

HAP	emissions and using NSCR	initial performance test is equal to or greater than the required formaldehyde percent reduction, or the average reduction of emissions of THC determined from the initial performance test is equal to or greater than 30 percent; and
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
8. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Reduce formaldehyde emissions and not using NSCR	i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or greater than the required formaldehyde percent reduction or the average reduction of emissions of THC determined from the initial performance test is equal to or greater than 30 percent; and
		ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
9. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. The average formaldehyde concentration, corrected to 15 percent O <sub>2</sub> , dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the

HP located at a major source of HAP		requirements in §63.6625(b); and
		iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test.
10. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE $250 \leq \text{HP} \leq 500$ located at a major source of HAP, and existing non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR	i. The average formaldehyde concentration, corrected to 15 percent O <sub>2</sub> , dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.6625(b); and
		iii. You have recorded the approved operating parameters (if any) during the initial performance test.
11. Existing non-emergency stationary RICE $100 \leq \text{HP} \leq 500$ located at a major source of HAP, and existing non-emergency stationary CI RICE $300 < \text{HP} \leq 500$ located at an area source of HAP	a. Reduce CO emissions	i. The average reduction of emissions of CO or formaldehyde, as applicable determined from the initial performance test is equal to or greater than the required CO or formaldehyde, as applicable, percent reduction.
12. Existing non-emergency stationary RICE $100 \leq \text{HP} \leq 500$ located at a major source of HAP, and existing non-emergency stationary CI RICE $300 < \text{HP} \leq 500$ located at an area source of HAP	a. Limit the concentration of formaldehyde or CO in the stationary RICE exhaust	i. The average formaldehyde or CO concentration, as applicable, corrected to 15 percent O <sub>2</sub> , dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable.
13. Existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year	a. Install an oxidation catalyst	i. You have conducted an initial compliance demonstration as specified in §63.6630(e) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O <sub>2</sub> ;
		ii. You have installed a CPMS to

		continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b), or you have installed equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1350 °F.
14. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year	a. Install NSCR	i. You have conducted an initial compliance demonstration as specified in §63.6630(e) to show that the average reduction of emissions of CO is 75 percent or more, the average CO concentration is less than or equal to 270 ppmvd at 15 percent O <sub>2</sub> , or the average reduction of emissions of THC is 30 percent or more;
		ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in §63.6625(b), or you have installed equipment to automatically shut down the engine if the catalyst inlet temperature exceeds 1250 °F.

[78 FR 6712, Jan. 30, 2013]

*There are no applicable requirements in Table 5 that apply to MHAFB RICE.*

**Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, and Other Requirements**

As stated in §63.6640, you must continuously comply with the emissions and operating limitations and work or management practices as required by the following:

For each . . .	Complying with the requirement to . . .	You must demonstrate continuous compliance by . . .
1. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, and new or	a. Reduce CO emissions and using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved <sup>a</sup> ; and ii. Collecting the catalyst inlet temperature data according to

reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP		§63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
2. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, and new or reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP	a. Reduce CO emissions and not using an oxidation catalyst, and using a CPMS	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved <sup>a</sup> ; and ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
3. New or reconstructed non-emergency 2SLB stationary RICE >500 HP located at a major source of HAP, new or reconstructed non-emergency 4SLB stationary RICE ≥250 HP located at a major source of HAP, new or reconstructed non-emergency stationary CI RICE >500 HP located at a major source of HAP, and existing non-emergency stationary CI RICE >500 HP	a. Reduce CO emissions or limit the concentration of CO in the stationary RICE exhaust, and using a CEMS	i. Collecting the monitoring data according to §63.6625(a), reducing the measurements to 1-hour averages, calculating the percent reduction or concentration of CO emissions according to §63.6620; and ii. Demonstrating that the catalyst achieves the required percent reduction of CO emissions over the 4-hour averaging period, or that the emission remain at or below the CO concentration limit; and
		iii. Conducting an annual RATA of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B, as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.
4. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Reduce formaldehyde emissions and using NSCR	i. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		ii. Reducing these data to 4-hour rolling averages; and

		iii. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		iv. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
5. Non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP	a. Reduce formaldehyde emissions and not using NSCR	i. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		ii. Reducing these data to 4-hour rolling averages; and
		iii. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
6. Non-emergency 4SRB stationary RICE with a brake HP $\geq 5,000$ located at a major source of HAP	a. Reduce formaldehyde emissions	Conducting semiannual performance tests for formaldehyde to demonstrate that the required formaldehyde percent reduction is achieved, or to demonstrate that the average reduction of emissions of THC determined from the performance test is equal to or greater than 30 percent. <sup>a</sup>
7. New or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE $250 \leq \text{HP} \leq 500$ located at a major source of HAP	a. Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR	i. Conducting semiannual performance tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit <sup>a</sup> ; and ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
8. New or reconstructed non-emergency	a. Limit the	i. Conducting semiannual performance

<p>stationary RICE &gt;500 HP located at a major source of HAP and new or reconstructed non-emergency 4SLB stationary RICE 250≤HP≤500 located at a major source of HAP</p>	<p>concentration of formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR</p>	<p>tests for formaldehyde to demonstrate that your emissions remain at or below the formaldehyde concentration limit<sup>a</sup>; and                      ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and</p>
		<p>iii. Reducing these data to 4-hour rolling averages; and</p>
		<p>iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.</p>
<p><u>9. Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE &lt;100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency 2SLB stationary RICE located at an area source of HAP, existing non-emergency stationary SI RICE located at an area source of HAP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE &gt;500 HP located at an area source of HAP that operate 24 hours or less per calendar year, and existing non-emergency 4SLB and 4SRB stationary RICE &gt;500 HP located at an area source of HAP that are remote stationary RICE</u></p>	<p><u>a. Work or Management practices</u></p>	<p><u>i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or</u>  <u>ii. Develop and follow 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.</u></p>
<p>10. Existing stationary CI RICE &gt;500 HP that are not limited use stationary RICE</p>	<p>a. Reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust, and using oxidation catalyst</p>	<p>i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and</p>
		<p>ii. Collecting the catalyst inlet temperature data according to</p>

		§63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and
		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
11. Existing stationary CI RICE >500 HP that are not limited use stationary RICE	a. Reduce CO emissions, or limit the concentration of CO in the stationary RICE exhaust, and not using oxidation catalyst	i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
12. Existing limited use CI stationary RICE >500 HP	a. Reduce CO emissions or limit the concentration of CO in the stationary RICE exhaust, and using an oxidation catalyst	i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the catalyst inlet temperature data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the catalyst inlet temperature; and

		v. Measuring the pressure drop across the catalyst once per month and demonstrating that the pressure drop across the catalyst is within the operating limitation established during the performance test.
13. Existing limited use CI stationary RICE >500 HP	a. Reduce CO emissions or limit the concentration of CO in the stationary RICE exhaust, and not using an oxidation catalyst	i. Conducting performance tests every 8,760 hours or 5 years, whichever comes first, for CO or formaldehyde, as appropriate, to demonstrate that the required CO or formaldehyde, as appropriate, percent reduction is achieved or that your emissions remain at or below the CO or formaldehyde concentration limit; and
		ii. Collecting the approved operating parameter (if any) data according to §63.6625(b); and
		iii. Reducing these data to 4-hour rolling averages; and
		iv. Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test.
14. Existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year	a. Install an oxidation catalyst	i. Conducting annual compliance demonstrations as specified in §63.6640(c) to show that the average reduction of emissions of CO is 93 percent or more, or the average CO concentration is less than or equal to 47 ppmvd at 15 percent O <sub>2</sub> ; and either ii. Collecting the catalyst inlet temperature data according to §63.6625(b), reducing these data to 4-hour rolling averages; and maintaining the 4-hour rolling averages within the limitation of greater than 450 °F and less than or equal to 1350 °F for the catalyst inlet temperature; or iii. Immediately shutting down the engine if the catalyst inlet temperature exceeds 1350 °F.
15. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year	a. Install NSCR	i. Conducting annual compliance demonstrations as specified in §63.6640(c) to show that the average reduction of emissions of CO is 75 percent or more, the average CO concentration is less than or equal to 270 ppmvd at 15 percent O <sub>2</sub> , or the average reduction of emissions of THC

		is 30 percent or more; and either ii. Collecting the catalyst inlet temperature data according to §63.6625(b), reducing these data to 4-hour rolling averages; and maintaining the 4-hour rolling averages within the limitation of greater than or equal to 750 °F and less than or equal to 1250 °F for the catalyst inlet temperature; or iii. Immediately shutting down the engine if the catalyst inlet temperature exceeds 1250 °F.
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<sup>a</sup>After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

**Section 9 of Table 5 has applicable requirements that apply to MHAFB emergency engine generators.**

**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:

For each . . .	You must submit a . . .	The report must contain . . .	You must submit the report . . .
1. Existing non-emergency, non-black start stationary RICE 100≤HP≤500 located at a major source of HAP; existing non-emergency, non-black start stationary CI RICE >500 HP located at a major source of HAP; existing non-emergency 4SRB stationary RICE >500 HP located at a major source of HAP; existing non-emergency, non-black start stationary CI RICE >300 HP located at an area source of HAP; new or reconstructed non-emergency stationary RICE >500 HP located at a major source of HAP; and new or reconstructed	Compliance report	a. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the reporting period; or	i. Semiannually according to the requirements in §63.6650(b)(1)-(5) for engines that are not limited use stationary RICE subject to numerical emission limitations; and ii. Annually according to the requirements in §63.6650(b)(6)-(9) for engines that are limited use stationary RICE subject to numerical emission limitations.

non-emergency 4SLB stationary RICE $250 \leq \text{HP} \leq 500$ located at a major source of HAP			
		b. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §63.6650(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), the information in §63.6650(e); or	i. Semiannually according to the requirements in §63.6650(b).
		c. If you had a malfunction during the reporting period, the information in §63.6650(c)(4).	i. Semiannually according to the requirements in §63.6650(b).
2. New or reconstructed non-emergency stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis	Report	a. The fuel flow rate of each fuel and the heating values that were used in your calculations, and you must demonstrate that the percentage of heat input provided by landfill gas or digester gas, is equivalent to 10 percent or more of the gross heat input on an annual basis; and	i. Annually, according to the requirements in §63.6650.
		b. The operating limits provided in your federally enforceable permit, and any deviations from these limits; and	i. See item 2.a.i.
		c. Any problems or errors suspected with the meters.	i. See item 2.a.i.
3. Existing non-emergency, non-black start 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that are not remote stationary RICE and that operate more than 24 hours per calendar year	Compliance report	a. The results of the annual compliance demonstration, if conducted during the reporting period.	i. Semiannually according to the requirements in §63.6650(b)(1)-(5).

4. 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) or that operate for the purposes specified in §63.6640(f)(4)(ii)	Report	a. The information in §63.6650(h)(1)	i. annually according to the requirements in §63.6650(h)(2)-(3).
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[78 FR 6719, Jan. 30, 2013]

***There are no applicable requirements in Table 7 that apply to MHAFB emergency engine generators. Please see comments related to §63.6650 in the attached table for explanation of applicability.***

**Table 8 to Subpart ZZZZ of Part 63—Applicability of General Provisions to Subpart ZZZZ.**

As stated in §63.6665, you must comply with the following applicable general provisions.

General provisions citation	Subject of citation	Applies to subpart	Explanation
<u>§63.1</u>	<u>General applicability of the General Provisions</u>	<u>Yes.</u>	
<u>§63.2</u>	<u>Definitions</u>	<u>Yes</u>	<u>Additional terms defined in §63.6675.</u>
<u>§63.3</u>	<u>Units and abbreviations</u>	<u>Yes.</u>	
<u>§63.4</u>	<u>Prohibited activities and circumvention</u>	<u>Yes.</u>	
<u>§63.5</u>	<u>Construction and reconstruction</u>	<u>Yes.</u>	
<u>§63.6(a)</u>	<u>Applicability</u>	<u>Yes.</u>	
<u>§63.6(b)(1)-(4)</u>	<u>Compliance dates for new and reconstructed sources</u>	<u>Yes.</u>	
<u>§63.6(b)(5)</u>	<u>Notification</u>	<u>Yes.</u>	
<u>§63.6(b)(6)</u>	[Reserved]		

§63.6(b)(7)	Compliance dates for new and reconstructed area sources that become major sources	Yes.	
§63.6(c)(1)-(2)	<u>Compliance dates for existing sources</u>	<u>Yes.</u>	
§63.6(c)(3)-(4)	[Reserved]		
§63.6(c)(5)	Compliance dates for existing area sources that become major sources	Yes.	
§63.6(d)	[Reserved]		
§63.6(e)	<u>Operation and maintenance</u>	<u>No.</u>	
§63.6(f)(1)	<u>Applicability of standards</u>	<u>No.</u>	
§63.6(f)(2)	<u>Methods for determining compliance</u>	<u>Yes.</u>	
§63.6(f)(3)	<u>Finding of compliance</u>	<u>Yes.</u>	
§63.6(g)(1)-(3)	Use of alternate standard	Yes.	
§63.6(h)	<u>Opacity and visible emission standards</u>	<u>No</u>	<u>Subpart ZZZZ does not contain opacity or visible emission standards.</u>
§63.6(i)	Compliance extension procedures and criteria	Yes.	
§63.6(j)	Presidential compliance exemption	Yes.	
§63.7(a)(1)-(2)	Performance test dates	Yes	Subpart ZZZZ contains performance test dates at §§63.6610, 63.6611, and 63.6612.
§63.7(a)(3)	CAA section 114 authority	Yes.	

§63.7(b)(1)	Notification of performance test	Yes	Except that §63.7(b)(1) only applies as specified in §63.6645.
§63.7(b)(2)	Notification of rescheduling	Yes	Except that §63.7(b)(2) only applies as specified in §63.6645.
§63.7(c)	Quality assurance/test plan	Yes	Except that §63.7(c) only applies as specified in §63.6645.
§63.7(d)	Testing facilities	Yes.	
§63.7(e)(1)	Conditions for conducting performance tests	No.	Subpart ZZZZ specifies conditions for conducting performance tests at §63.6620.
§63.7(e)(2)	Conduct of performance tests and reduction of data	Yes	Subpart ZZZZ specifies test methods at §63.6620.
§63.7(e)(3)	Test run duration	Yes.	
§63.7(e)(4)	Administrator may require other testing under section 114 of the CAA	Yes.	
§63.7(f)	Alternative test method provisions	Yes.	
§63.7(g)	Performance test data analysis, recordkeeping, and reporting	Yes.	
§63.7(h)	Waiver of tests	Yes.	
§63.8(a)(1)	<u>Applicability of monitoring requirements</u>	<u>Yes</u>	<u>Subpart ZZZZ contains specific requirements for monitoring at §63.6625.</u>
§63.8(a)(2)	Performance specifications	Yes.	
§63.8(a)(3)	[Reserved]		
§63.8(a)(4)	Monitoring for control devices	No.	

§63.8(b)(1)	Monitoring	Yes.	
§63.8(b)(2)-(3)	Multiple effluents and multiple monitoring systems	Yes.	
§63.8(c)(1)	Monitoring system operation and maintenance	Yes.	
§63.8(c)(1)(i)	Routine and predictable SSM	No	
§63.8(c)(1)(ii)	SSM not in Startup Shutdown Malfunction Plan	Yes.	
§63.8(c)(1)(iii)	<u>Compliance with operation and maintenance requirements</u>	No	
§63.8(c)(2)-(3)	Monitoring system installation	Yes.	
§63.8(c)(4)	Continuous monitoring system (CMS) requirements	Yes	Except that subpart ZZZZ does not require Continuous Opacity Monitoring System (COMS).
§63.8(c)(5)	COMS minimum procedures	No	Subpart ZZZZ does not require COMS.
§63.8(c)(6)-(8)	CMS requirements	Yes	Except that subpart ZZZZ does not require COMS.
§63.8(d)	CMS quality control	Yes.	
§63.8(e)	CMS performance evaluation	Yes	Except for §63.8(e)(5)(ii), which applies to COMS.
		Except that §63.8(e) only applies as specified in §63.6645.	
§63.8(f)(1)-(5)	Alternative monitoring method	Yes	Except that §63.8(f)(4) only applies as specified in §63.6645.

§63.8(f)(6)	Alternative to relative accuracy test	Yes	Except that §63.8(f)(6) only applies as specified in §63.6645.
§63.8(g)	Data reduction	Yes	Except that provisions for COMS are not applicable. Averaging periods for demonstrating compliance are specified at §§63.6635 and 63.6640.
§63.9(a)	Applicability and State delegation of notification requirements	Yes.	
§63.9(b)(1)-(5)	Initial notifications	Yes	Except that §63.9(b)(3) is reserved.
		Except that §63.9(b) only applies as specified in §63.6645.	
§63.9(c)	Request for compliance extension	Yes	Except that §63.9(c) only applies as specified in §63.6645.
§63.9(d)	Notification of special compliance requirements for new sources	Yes	Except that §63.9(d) only applies as specified in §63.6645.
§63.9(e)	Notification of performance test	Yes	Except that §63.9(e) only applies as specified in §63.6645.
§63.9(f)	Notification of visible emission (VE)/opacity test	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(1)	Notification of performance evaluation	Yes	Except that §63.9(g) only applies as specified in §63.6645.
§63.9(g)(2)	Notification of use of COMS data	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.9(g)(3)	Notification that criterion for alternative to RATA is exceeded	Yes	If alternative is in use.
		Except that §63.9(g) only	

		applies as specified in §63.6645.	
§63.9(h)(1)-(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. §63.9(h)(4) is reserved.
			Except that §63.9(h) only applies as specified in §63.6645.
§63.9(i)	Adjustment of submittal deadlines	Yes.	
§63.9(j)	Change in previous information	Yes.	
<u>§63.10(a)</u>	<u>Administrative provisions for recordkeeping/reporting</u>	<u>Yes.</u>	
<u>§63.10(b)(1)</u>	<u>Record retention</u>	<u>Yes</u>	<u>Except that the most recent 2 years of data do not have to be retained on site.</u>
§63.10(b)(2)(i)-(v)	Records related to SSM	No.	
<u>§63.10(b)(2)(vi)-(xi)</u>	<u>Records</u>	<u>Yes.</u>	
§63.10(b)(2)(xii)	Record when under waiver	Yes.	
§63.10(b)(2)(xiii)	Records when using alternative to RATA	Yes	For CO standard if using RATA alternative.
§63.10(b)(2)(xiv)	Records of supporting documentation	Yes.	
§63.10(b)(3)	Records of applicability determination	Yes.	
§63.10(c)	Additional records for sources using CEMS	Yes	Except that §63.10(c)(2)-(4) and (9) are reserved.

§63.10(d)(1)	General reporting requirements	Yes.	
§63.10(d)(2)	Report of performance test results	Yes.	
§63.10(d)(3)	Reporting opacity or VE observations	No	Subpart ZZZZ does not contain opacity or VE standards.
§63.10(d)(4)	Progress reports	Yes.	
§63.10(d)(5)	Startup, shutdown, and malfunction reports	No.	
§63.10(e)(1) and (2)(i)	Additional CMS Reports	Yes.	
§63.10(e)(2)(ii)	COMS-related report	No	Subpart ZZZZ does not require COMS.
§63.10(e)(3)	Excess emission and parameter exceedances reports	Yes.	Except that §63.10(e)(3)(i) (C) is reserved.
§63.10(e)(4)	Reporting COMS data	No	Subpart ZZZZ does not require COMS.
§63.10(f)	Waiver for recordkeeping/reporting	Yes.	
§63.11	Flares	No.	
<u>§63.12</u>	<u>State authority and delegations</u>	<u>Yes.</u>	
<u>§63.13</u>	<u>Addresses</u>	<u>Yes.</u>	
<u>§63.14</u>	<u>Incorporation by reference</u>	<u>Yes.</u>	
<u>§63.15</u>	<u>Availability of information</u>	<u>Yes.</u>	

[75 FR 9688, Mar. 3, 2010, as amended at 78 FR 6720, Jan. 30, 2013]

**MHAFB has existing RICE and is subject to the General Provisions in Table 8.**

40 CFR Part 63 Subpart ZZZZ Regulatory Analysis  
Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																																																																																																																																																																							
<b>What This Subpart Covers</b>																																																																																																																																																																																																																																												
§63.6580	What is the purpose of subpart ZZZZ?	Yes	All Stationary RICE	MHAFB is an area source of HAP emissions.	N/A																																																																																																																																																																																																																																							
§63.6585	Am I subject to this subpart?	Yes	All Stationary RICE	MHAFB operates stationary RICE.	N/A																																																																																																																																																																																																																																							
§63.6585(a)	Applies to facilities that own or operate a stationary RICE at a major or area source of HAP.	Yes	All Stationary RICE	MHAFB operates stationary RICE.	N/A																																																																																																																																																																																																																																							
§63.6585(b)	Applies to major sources of HAP.	No	All Stationary RICE	MHAFB is not a major source of HAP emissions.	N/A																																																																																																																																																																																																																																							
§63.6585(c, d)	Applies to area sources of HAP.	Yes	N/A	MHAFB is an area source of HAP emissions.	N/A																																																																																																																																																																																																																																							
§63.6585(e)	Applies to national security exemptions.	No	N/A	MHAFB is not claiming a national security exemption.	N/A																																																																																																																																																																																																																																							
§63.6590	What parts of my plant does this subpart cover?	Yes	N/A	See the respective §63.6590(a)-(c) subsection(s) explanation(s).	N/A																																																																																																																																																																																																																																							
§63.6590(a)	Affected source.	Yes	N/A	See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s).	N/A																																																																																																																																																																																																																																							
§63.6590(a)(1)	Existing stationary RICE.	Yes	N/A	See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s).	N/A																																																																																																																																																																																																																																							
§63.6590(a)(1)(i)	Existing (i.e., commenced construction or reconstruction before December 19, 2002) stationary RICE with a site rating of > 500 brake horsepower (HP) located at a major source of HAP emissions.	No	Ex > 500 HP	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																																																																																							
§63.6590(a)(1)(ii)	Existing (i.e., commenced construction or reconstruction before June 12, 2006) stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions.	No	Ex ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																																																																																							
§63.6590(a)(1)(iii)	Existing stationary RICE located at an area source of HAP emissions.	Yes	Commenced const before June 12, 2006	MHAFB has RICE manufactured before June 12, 2006.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">FIRE PUMPS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> </thead> <tbody> <tr><td>IC0206</td><td>CI</td><td>2004</td><td>IC0197.1</td><td>CI</td><td>2000</td></tr> <tr><td>IC0517</td><td>CI</td><td>1999</td><td>IC0197.2</td><td>CI</td><td>2000</td></tr> <tr><td>IC1014</td><td>CI</td><td>2000</td><td>IC0197.3</td><td>CI</td><td>2000</td></tr> <tr><td>IC1298</td><td>CI</td><td>1999</td><td>IC0197.4</td><td>CI</td><td>2000</td></tr> <tr><td>IC1302</td><td>CI</td><td>2001</td><td>IC1347.1</td><td>CI</td><td>2000</td></tr> <tr><td>IC1311</td><td>CI</td><td>1999</td><td>IC1347.2</td><td>CI</td><td>2000</td></tr> <tr><td>IC1402</td><td>CI</td><td>2003</td><td>IC1347.3</td><td>CI</td><td>2000</td></tr> <tr><td>IC1403</td><td>CI</td><td>1999</td><td>IC1347.4</td><td>CI</td><td>2000</td></tr> <tr><td>IC1413</td><td>CI</td><td>2001</td><td></td><td></td><td></td></tr> <tr><td>IC1501</td><td>CI</td><td>2004</td><td></td><td></td><td></td></tr> <tr><td>IC1819</td><td>CI</td><td>2001</td><td></td><td></td><td></td></tr> <tr><td>IC2103</td><td>CI</td><td>1998</td><td></td><td></td><td></td></tr> <tr><td>IC2192</td><td>CI</td><td>1998</td><td></td><td></td><td></td></tr> <tr><td>IC2706</td><td>SI</td><td>1997</td><td></td><td></td><td></td></tr> <tr><td>IC2708</td><td>CI</td><td>1998</td><td></td><td></td><td></td></tr> <tr><td>IC3240</td><td>CI</td><td>1998</td><td></td><td></td><td></td></tr> <tr><td>IC3491</td><td>CI</td><td>1995</td><td></td><td></td><td></td></tr> <tr><td>IC3502</td><td>CI</td><td>2004</td><td></td><td></td><td></td></tr> <tr><td>IC3503</td><td>CI</td><td>1999</td><td></td><td></td><td></td></tr> <tr><td>IC3535</td><td>CI</td><td>1999</td><td></td><td></td><td></td></tr> <tr><td>IC3539</td><td>CI</td><td>1999</td><td></td><td></td><td></td></tr> <tr><td>IC3600</td><td>CI</td><td>2003</td><td></td><td></td><td></td></tr> <tr><td>IC4799</td><td>CI</td><td>2003</td><td></td><td></td><td></td></tr> <tr><td>IC4827</td><td>CI</td><td>1999</td><td></td><td></td><td></td></tr> <tr><td>IC5250</td><td>CI</td><td>1999</td><td></td><td></td><td></td></tr> <tr><td>IC6400</td><td>CI</td><td>1999</td><td></td><td></td><td></td></tr> <tr><td>IC8077</td><td>CI</td><td>2003</td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">FLIGHTLINE BARRIER</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> </thead> <tbody> <tr><td>ICFBE#1</td><td>SI</td><td>March 2006</td></tr> <tr><td>ICFBE#2</td><td>SI</td><td>March 2006</td></tr> <tr><td>ICFBE#3</td><td>SI</td><td>Nov 2005</td></tr> <tr><td>ICFBE#4</td><td>SI</td><td>Nov 2005</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> </thead> <tbody> <tr><td>GR#1</td><td>CI</td><td>2005</td></tr> <tr><td>GR#2</td><td>CI</td><td>2005</td></tr> <tr><td>SC#1</td><td>CI</td><td>2002</td></tr> <tr><td>SC#2</td><td>CI</td><td>2003</td></tr> <tr><td>JB#1</td><td>CI</td><td>2000</td></tr> <tr><td>JB#2</td><td>CI</td><td>2000</td></tr> <tr><td>ETI.BC</td><td>SI</td><td>2000</td></tr> <tr><td>ETI.BD</td><td>SI</td><td>2000</td></tr> <tr><td>ETI.BE</td><td>SI</td><td>2000</td></tr> <tr><td>ETI.BG</td><td>SI</td><td>2000</td></tr> <tr><td>ETI.BI</td><td>SI</td><td>2000</td></tr> </tbody> </table>	ON BASE GENERATORS			FIRE PUMPS			Equip ID	SI/CI	Manuf	Equip ID	SI/CI	Manuf	IC0206	CI	2004	IC0197.1	CI	2000	IC0517	CI	1999	IC0197.2	CI	2000	IC1014	CI	2000	IC0197.3	CI	2000	IC1298	CI	1999	IC0197.4	CI	2000	IC1302	CI	2001	IC1347.1	CI	2000	IC1311	CI	1999	IC1347.2	CI	2000	IC1402	CI	2003	IC1347.3	CI	2000	IC1403	CI	1999	IC1347.4	CI	2000	IC1413	CI	2001				IC1501	CI	2004				IC1819	CI	2001				IC2103	CI	1998				IC2192	CI	1998				IC2706	SI	1997				IC2708	CI	1998				IC3240	CI	1998				IC3491	CI	1995				IC3502	CI	2004				IC3503	CI	1999				IC3535	CI	1999				IC3539	CI	1999				IC3600	CI	2003				IC4799	CI	2003				IC4827	CI	1999				IC5250	CI	1999				IC6400	CI	1999				IC8077	CI	2003				FLIGHTLINE BARRIER			Equip ID	SI/CI	Manuf	ICFBE#1	SI	March 2006	ICFBE#2	SI	March 2006	ICFBE#3	SI	Nov 2005	ICFBE#4	SI	Nov 2005	OFF BASE GENERATORS			Equip ID	SI/CI	Manuf	GR#1	CI	2005	GR#2	CI	2005	SC#1	CI	2002	SC#2	CI	2003	JB#1	CI	2000	JB#2	CI	2000	ETI.BC	SI	2000	ETI.BD	SI	2000	ETI.BE	SI	2000	ETI.BG	SI	2000	ETI.BI	SI	2000
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§63.6590(a)(1)(iv)	Change in ownership.	No	N/A	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																																																																																							
§63.6590(a)(2)	New stationary RICE.	No	N/A	MHAFB is not a major source of HAP emissions.	N/A																																																																																																																																																																																																																																							
§63.6590(a)(2)(i)	New (i.e., constructed on or after December 19, 2002) stationary RICE with a site rating of > 500 brake HP located at a major source of HAP.	No	New > 500 HP	MHAFB is not a major source of HAP emissions.	N/A																																																																																																																																																																																																																																							

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																										
§63.6590(a)(2)(ii)	New (i.e., constructed on or after June 12, 2006) stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP.	No	New ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A																																																																																										
§63.6590(a)(2)(iii)	New stationary RICE located at an area source of HAP emissions.	Yes	N/A	MHAFB has RICE manufactured after June 12, 2006.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">ON BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0196.2</td> <td>CI</td> <td>2008</td> <td>IC3499.2</td> <td>CI</td> <td>2009</td> </tr> <tr> <td>IC0258</td> <td>CI</td> <td>2007</td> <td>IC6000.1</td> <td>CI</td> <td>2011</td> </tr> <tr> <td>IC0261</td> <td>CI</td> <td>2007</td> <td>IC6000.2</td> <td>CI</td> <td>2011</td> </tr> <tr> <td>IC0265</td> <td>CI</td> <td>2011</td> <td>IC6300.2</td> <td>CI</td> <td>2012</td> </tr> <tr> <td>IC0508</td> <td>CI</td> <td>2008</td> <td>IC6399</td> <td>CI</td> <td>2008</td> </tr> <tr> <td>IC0610.2</td> <td>CI</td> <td>2013</td> <td>IC13509</td> <td>CI</td> <td>2008</td> </tr> <tr> <td>IC1317</td> <td>CI</td> <td>2011</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1321</td> <td>CI</td> <td>2008</td> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <td>IC1333</td> <td>CI</td> <td>2010</td> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> <tr> <td>IC1341.2</td> <td>CI</td> <td>2012</td> <td>ETI.BA</td> <td>SI</td> <td>2014</td> </tr> <tr> <td>IC1795</td> <td>CI</td> <td>2010</td> <td>ETI.BF</td> <td>SI</td> <td>2014</td> </tr> <tr> <td>IC2316.2</td> <td>CI</td> <td>2008</td> <td>ETI.BJ</td> <td>SI</td> <td>2012</td> </tr> <tr> <td>IC3210</td> <td>CI</td> <td>2008</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	ON BASE GENERATORS			ON BASE GENERATORS			Equip ID	SI/CI	Manuf	Equip ID	SI/CI	Manuf	IC0196.2	CI	2008	IC3499.2	CI	2009	IC0258	CI	2007	IC6000.1	CI	2011	IC0261	CI	2007	IC6000.2	CI	2011	IC0265	CI	2011	IC6300.2	CI	2012	IC0508	CI	2008	IC6399	CI	2008	IC0610.2	CI	2013	IC13509	CI	2008	IC1317	CI	2011				IC1321	CI	2008	OFF BASE GENERATORS			IC1333	CI	2010	Equip ID	SI/CI	Manuf	IC1341.2	CI	2012	ETI.BA	SI	2014	IC1795	CI	2010	ETI.BF	SI	2014	IC2316.2	CI	2008	ETI.BJ	SI	2012	IC3210	CI	2008			
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§63.6590(a)(3)(i)-(iii)	Reconstructed stationary RICE.	No	N/A	MHAFB does not have sources that meet these criteria.	N/A																																																																																										
§63.6590(b)	Stationary RICE subject to limited requirements.	No	N/A	MHAFB does not have sources that meet these criteria.	N/A																																																																																										
§63.6590(b)(1)	An affected source which needs to meet the initial notification requirements of §63.6645(f) only.	No	N/A	MHAFB does not have sources that meet these criteria.	N/A																																																																																										
§63.6590(b)(1)(i)	The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions.	No	New Emer > 500 HP	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(b)(1)(ii)	The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions.	No	New LU > 500 HP	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(b)(2)	A new or reconstructed stationary RICE which combusts landfill or digester gas equivalent to 10 percent.	No	N/A	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(b)(3)	Existing stationary RICE which do not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary.	No	N/A	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(b)(3)(i)(ii)	2SLB and 4SLB	No	N/A	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(b)(3)(iii)	Existing emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions.	No	Ex Emer > 500 HP	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(b)(3)(iv)	Existing limited use stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions.	No	Ex LU > 500 HP	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(b)(3)(v)-(viii)	Existing stationary RICE with a site rating of > 500 brake HP that combusts landfill gas or digester gas at a major source of HAP emissions; residential, commercial or institutional RICE at an area source of HAP emissions	No	N/A	MHAFB is not a major source of HAP emissions.	N/A																																																																																										
§63.6590(c)	Stationary RICE subject to Regulations under 40 CFR Part 60. No further requirements apply for such engines under this part.	Yes	N/A	MHAFB is subject to §63.6590(c)(1).	N/A																																																																																										

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>					
§63.6590(c)(1)	A new or reconstructed stationary RICE located at an area source;	Yes	N/A	MHAFB has new stationary RICE and is located at an area source. Affected sources listed under Equipment ID must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.	<b>ON BASE GENERATORS</b>			<b>ON BASE GENERATORS</b>		
					<b>Equip ID</b>	<b>SI/CI</b>	<b>Manuf</b>	<b>Equip ID</b>	<b>SI/CI</b>	<b>Manuf</b>
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					IC0508	CI	2008	IC6399	CI	2008
					IC0610.2	CI	2013	IC13509	CI	2008
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					IC2316.2	CI	2008	ETI.BJ	SI	2012
					IC3210	CI	2008			
§63.6590(c)(2)-(5)	Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE.	No	N/A	MHAFB is not a major source of HAP emissions.	N/A					
§63.6590(c)(6)	A new or reconstructed emergency or limited use stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions.	No	New/LU Emer ≤ 500 HP	MHAFB is not a major source of HAP emissions.	N/A					
§63.6590(c)(7)	A new or reconstructed compression ignition (CI) stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions.	No	New CI ≤ 500 HP	MHAFB is not a major source of HAP emissions.	N/A					
§63.6595	When do I have to comply with this subpart?	Yes	N/A	See the respective §63.6595(a)-(c) subsection(s) explanation(s).	N/A					
§63.6595(a)	Affected Sources.	Yes	N/A	See the respective §63.6595(a)(1)-(7) subsection(s) explanation(s).	See §63.6595(a)(1)					
§63.6595(a)(1)	<ul style="list-style-type: none"> <li>•Existing stationary RICE, excluding existing non-emergency CI stationary RICE, &gt; 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.</li> <li>•Existing non-emergency CI stationary RICE &gt; 500 brake HP or existing stationary CI RICE ≤ 500 brake HP located at a major source of HAP emissions, or existing stationary CI RICE at an area source of HAP emissions no later than May 3, 2013.</li> <li>•Existing stationary SI RICE &lt; 500 brake HP located at a major source of HAP emissions, or an existing stationary SI RICE at an area source of HAP emissions, no later than October 19, 2013.</li> </ul>	Yes	<ul style="list-style-type: none"> <li>Ex CI &gt; 500 HP</li> <li>Ex Non Emer CI RICE</li> <li>Ex SI RICE &lt; 500 HP</li> <li>Ex CI ≤ 500 HP</li> </ul>	MHAFB maintains existing stationary emergency CI RICE and non-emergency SI RICE	<b>ON BASE GENERATORS</b>			<b>FIRE PUMPS</b>		
					<b>Equip ID</b>	<b>SI/CI</b>	<b>Manuf</b>	<b>Equip ID</b>	<b>SI/CI</b>	<b>Manuf</b>
					IC0206	CI	2004	IC0197.1	CI	2000
					IC0517	CI	1999	IC0197.2	CI	2000
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					IC1413	CI	2001			
					IC1501	CI	2004	<b>FLIGHTLINE BARRIER</b>		
					IC1819	CI	2001	<b>Equip ID</b>	<b>SI/CI</b>	<b>Manuf</b>
					IC2103	CI	1998	ICFBE#1	SI	March 2006
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					IC3240	CI	1998			
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					IC3502	CI	2004	<b>Equip ID</b>	<b>SI/CI</b>	<b>Manuf</b>
					IC3503	CI	1999	GR#1	CI	2005
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								ETI.BI	SI	2000

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Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																																			
§63.6595(a)(2)	If you start up your new or reconstructed stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions before August 16, 2004.	No	New > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6595(a)(3)	If you start up your new or reconstructed stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions after August 16, 2004.	No	New > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6595(a)(4)	If you start up your new or reconstructed stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions before January 18, 2008.	No	New ≤ 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6595(a)(5)	If you start up your new or reconstructed stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions after January 18, 2008.	No	New ≤ 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6595(a)(6)	If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.	Yes	N/A	MHAFB is subject to this section. Refer to Equipment ID for new sources that were started up before January 18, 2008.	<b>ON BASE GENERATORS</b> Equip ID SI/CI Manuf IC0261 CI 2007																																																																																																			
§63.6595(a)(7)	If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.	Yes	N/A	MHAFB is subject to this section. Refer to Equipment ID for new sources that were started up after January 18, 2008.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">ON BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>IC0196.2</td> <td>CI</td> <td>2008</td> <td>IC3499.2</td> <td>CI</td> <td>2009</td> </tr> <tr> <td>IC0258</td> <td>CI</td> <td>2007</td> <td>IC6000.1</td> <td>CI</td> <td>2011</td> </tr> <tr> <td>IC0265</td> <td>CI</td> <td>2011</td> <td>IC6000.2</td> <td>CI</td> <td>2011</td> </tr> <tr> <td>IC0508</td> <td>CI</td> <td>2008</td> <td>IC6300.2</td> <td>CI</td> <td>2012</td> </tr> <tr> <td>IC0610.2</td> <td>CI</td> <td>2013</td> <td>IC6399</td> <td>CI</td> <td>2008</td> </tr> <tr> <td>IC1317</td> <td>CI</td> <td>2011</td> <td>IC13509</td> <td>CI</td> <td>2008</td> </tr> <tr> <td>IC1321</td> <td>CI</td> <td>2008</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1333</td> <td>CI</td> <td>2010</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1341.2</td> <td>CI</td> <td>2012</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC1795</td> <td>CI</td> <td>2010</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC2316.2</td> <td>CI</td> <td>2008</td> <td></td> <td></td> <td></td> </tr> <tr> <td>IC3210</td> <td>CI</td> <td>2008</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> </thead> <tbody> <tr> <td>ETI.BA</td> <td>SI</td> <td>2014</td> </tr> <tr> <td>ETI.BF</td> <td>SI</td> <td>2014</td> </tr> <tr> <td>ETI.BJ</td> <td>SI</td> <td>2012</td> </tr> </tbody> </table>	ON BASE GENERATORS			ON BASE GENERATORS			Equip ID	SI/CI	Manuf	Equip ID	SI/CI	Manuf	IC0196.2	CI	2008	IC3499.2	CI	2009	IC0258	CI	2007	IC6000.1	CI	2011	IC0265	CI	2011	IC6000.2	CI	2011	IC0508	CI	2008	IC6300.2	CI	2012	IC0610.2	CI	2013	IC6399	CI	2008	IC1317	CI	2011	IC13509	CI	2008	IC1321	CI	2008				IC1333	CI	2010				IC1341.2	CI	2012				IC1795	CI	2010				IC2316.2	CI	2008				IC3210	CI	2008				OFF BASE GENERATORS			Equip ID	SI/CI	Manuf	ETI.BA	SI	2014	ETI.BF	SI	2014	ETI.BJ	SI	2012
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§63.6595(b)(1)(2)	Area sources that become major sources.	No	N/A	MHAFB has not become a major source.	N/A																																																																																																			
§63.6595(c)	If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR part 63, subpart A.	No	EX Emer ≤ 500 HP Ex Non-Emer CI 100 ≤ HP ≤ 500 Ex Non-Emer CI > 500 HP New Emer > 500HP	MHAFB does not have sources that meet this criterion.	N/A																																																																																																			
<b>Emission and Operating Limitations</b>																																																																																																								
§63.6600	What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions?	No	> 500 brake HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6600(a)	If you own or operate an existing, new, or reconstructed spark ignition 4SRB stationary RICE with a site rating of > 500 brake HP.	No	N/A	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6600(b)	If you own or operate a new or reconstructed 2SLB, 4SLB, or CI stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.	No	New Non Emer and Non LU CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6600(c)	Exemption from emissions or operating limitations. Stationary RICE with a site rating greater than 500 brake HP located at a major source of HAP emissions do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart if the stationary RICE is: an existing 2SLB or 4SLB stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE; or a limited use stationary RICE.	No	EX SI 2SLB, 4SLB > 500 HP Emer > 500 HP LU > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			
§63.6600(d)	If you own or operate an existing non-emergency stationary CI RICE with a site rating of > 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart and the operating limitations in Table 2b to this subpart which apply to you.	No	Ex Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																			

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Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																																																																																																																										
§63.6601	What emission limitations must I meet for 4SLB stationary RICE?	No	N/A	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																										
§63.6602	What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?	No	Ex ≤ 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																										
§63.6603(a)	What emission limitations and operating limitations must I meet if I own or operate an existing stationary CI RICE located at an area source of HAP emissions?	Yes	All stationary RICE	Table 2b does not apply to the existing stationary RICE since MHAFB is not a Major Source. Table 2d does not establish numerical emission limits but does establish O&M requirements such as oil and filter changes. Refer to O&M requirements in Table 2d below.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">FIRE PUMPS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> <th>Equip ID</th> <th>SI/CI</th> <th>Manuf</th> </tr> </thead> <tbody> <tr><td>IC0206</td><td>CI</td><td>2004</td><td>IC0197.1</td><td>CI</td><td>2000</td></tr> <tr><td>IC0517</td><td>CI</td><td>1999</td><td>IC0197.2</td><td>CI</td><td>2000</td></tr> <tr><td>IC1014</td><td>CI</td><td>2000</td><td>IC0197.3</td><td>CI</td><td>2000</td></tr> <tr><td>IC1298</td><td>CI</td><td>1999</td><td>IC0197.4</td><td>CI</td><td>2000</td></tr> <tr><td>IC1302</td><td>CI</td><td>2001</td><td>IC1347.1</td><td>CI</td><td>2000</td></tr> <tr><td>IC1311</td><td>CI</td><td>1999</td><td>IC1347.2</td><td>CI</td><td>2000</td></tr> <tr><td>IC1402</td><td>CI</td><td>2003</td><td>IC1347.3</td><td>CI</td><td>2000</td></tr> <tr><td>IC1403</td><td>CI</td><td>1999</td><td>IC1347.4</td><td>CI</td><td>2000</td></tr> <tr><td>IC1413</td><td>CI</td><td>2001</td><td></td><td></td><td></td></tr> <tr><td>IC1501</td><td>CI</td><td>2004</td><th colspan="3">FLIGHTLINE BARRIER</th></tr> <tr><td>IC1819</td><td>CI</td><td>2001</td><th>Equip ID</th><th>SI/CI</th><th>Manuf</th></tr> <tr><td>IC2103</td><td>CI</td><td>1998</td><td>ICFBE#1</td><td>SI</td><td>March 2006</td></tr> <tr><td>IC2192</td><td>CI</td><td>1998</td><td>ICFBE#2</td><td>SI</td><td>March 2006</td></tr> <tr><td>IC2706</td><td>SI</td><td>1997</td><td>ICFBE#3</td><td>SI</td><td>Nov 2005</td></tr> <tr><td>IC2708</td><td>CI</td><td>1998</td><td>ICFBE#4</td><td>SI</td><td>Nov 2005</td></tr> <tr><td>IC3240</td><td>CI</td><td>1998</td><td></td><td></td><td></td></tr> <tr><td>IC3491</td><td>CI</td><td>1995</td><th colspan="3">OFF BASE GENERATORS</th></tr> <tr><td>IC3502</td><td>CI</td><td>2004</td><th>Equip ID</th><th>SI/CI</th><th>Manuf</th></tr> <tr><td>IC3503</td><td>CI</td><td>1999</td><td>GR#1</td><td>CI</td><td>2005</td></tr> <tr><td>IC3535</td><td>CI</td><td>1999</td><td>GR#2</td><td>CI</td><td>2005</td></tr> <tr><td>IC3539</td><td>CI</td><td>1999</td><td>SC#1</td><td>CI</td><td>2002</td></tr> <tr><td>IC3600</td><td>CI</td><td>2003</td><td>SC#2</td><td>CI</td><td>2003</td></tr> <tr><td>IC4799</td><td>CI</td><td>2003</td><td>JB#1</td><td>CI</td><td>2000</td></tr> <tr><td>IC4827</td><td>CI</td><td>1999</td><td>JB#2</td><td>CI</td><td>2000</td></tr> <tr><td>IC5250</td><td>CI</td><td>1999</td><td>ETI.BC</td><td>SI</td><td>2000</td></tr> <tr><td>IC6400</td><td>CI</td><td>1999</td><td>ETI.BD</td><td>SI</td><td>2000</td></tr> <tr><td>IC8077</td><td>CI</td><td>2003</td><td>ETI.BE</td><td>SI</td><td>2000</td></tr> <tr><td></td><td></td><td></td><td>ETI.BG</td><td>SI</td><td>2000</td></tr> <tr><td></td><td></td><td></td><td>ETI.BI</td><td>SI</td><td>2000</td></tr> </tbody> </table>	ON BASE GENERATORS			FIRE PUMPS			Equip ID	SI/CI	Manuf	Equip ID	SI/CI	Manuf	IC0206	CI	2004	IC0197.1	CI	2000	IC0517	CI	1999	IC0197.2	CI	2000	IC1014	CI	2000	IC0197.3	CI	2000	IC1298	CI	1999	IC0197.4	CI	2000	IC1302	CI	2001	IC1347.1	CI	2000	IC1311	CI	1999	IC1347.2	CI	2000	IC1402	CI	2003	IC1347.3	CI	2000	IC1403	CI	1999	IC1347.4	CI	2000	IC1413	CI	2001				IC1501	CI	2004	FLIGHTLINE BARRIER			IC1819	CI	2001	Equip ID	SI/CI	Manuf	IC2103	CI	1998	ICFBE#1	SI	March 2006	IC2192	CI	1998	ICFBE#2	SI	March 2006	IC2706	SI	1997	ICFBE#3	SI	Nov 2005	IC2708	CI	1998	ICFBE#4	SI	Nov 2005	IC3240	CI	1998				IC3491	CI	1995	OFF BASE GENERATORS			IC3502	CI	2004	Equip ID	SI/CI	Manuf	IC3503	CI	1999	GR#1	CI	2005	IC3535	CI	1999	GR#2	CI	2005	IC3539	CI	1999	SC#1	CI	2002	IC3600	CI	2003	SC#2	CI	2003	IC4799	CI	2003	JB#1	CI	2000	IC4827	CI	1999	JB#2	CI	2000	IC5250	CI	1999	ETI.BC	SI	2000	IC6400	CI	1999	ETI.BD	SI	2000	IC8077	CI	2003	ETI.BE	SI	2000				ETI.BG	SI	2000				ETI.BI	SI	2000
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§63.6603(b)	If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP ...	No	See Requirement	MHAFB does not own non-emergency CI RICE.	N/A																																																																																																																																																																																										
§63.6603(c)	If you own or operate an existing stationary non-emergency CI RICE with a site rating of more than 300 HP located on an offshore vessel...	No	See Requirement	MHAFB does not own non-emergency CI RICE.	N/A																																																																																																																																																																																										
§63.6603(d)	If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions...	No	See Requirement	MHAFB does not own non-emergency CI RICE.	N/A																																																																																																																																																																																										
§63.6603(e)	If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP emissions...	No	See Requirement	MHAFB does not own non-emergency CI RICE.	N/A																																																																																																																																																																																										
§63.6603(f)	An existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP...	No	See Requirement	MHAFB does not own non-emergency SI RICE > 500 HP	N/A																																																																																																																																																																																										
§63.6604(a)	What fuel requirements must I meet if I own or operate an existing non-emergency, non-black start CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel?	No	Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder)	MHAFB does not have sources that meet these criteria.	N/A																																																																																																																																																																																										
§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.	No	Ex Emer CI > 100 HP (displacement < 30 liters per cylinder)	MHAFB does not use RICE for purposes specified in §63.6640(f)(2)(ii) and (iii) or that operates for the purpose specified in §63.6640(f)(4)(ii).	N/A																																																																																																																																																																																										

40 CFR Part 63 Subpart ZZZZ Regulatory Analysis  
Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																																																																																																																																																																							
§63.6604(c)	What fuel requirements must I meet if I own or operate an new emergency CI stationary RICE with a site rating of more than 500 brake HP and a displacement of less than 30 liters per cylinder located at a major source of HAP that uses diesel fuel and operates or is contractually obligated to be available for more than 15 hours per calendar year?	No	new Emer CI > 500 HP (displacement < 30 liters per cylinder)	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																																																																							
§63.6604(d)	Existing CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, at area sources in areas of Alaska that meet either §63.6603(b)(1) or §63.6603(b)(2), or are on offshore vessels that meet §63.6603(c) are exempt from the requirements of this section.	No	Ex CI stationary RICE	MHAFB is located in Idaho and therefore is not subject to this subpart.	N/A																																																																																																																																																																																																																																							
<b>General Compliance Requirements</b>																																																																																																																																																																																																																																												
§63.6605(a)(b)	What are my general requirements for complying with this subpart? (a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times. (b) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	Yes	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP HP Ex Emer SI ≤ 500 HP Ex Non Emer > 500 HP that are not LU New Emer > 500 HP	MHAFB is only subject to the O&M requirements for the emergency CI RICE and non-emergency SI RICE. Refer to the applicable requirements in Table 2d.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">FIRE PUMPS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>IC0206</td><td>CI</td><td>80.4</td><td>IC0197.1</td><td>CI</td><td>305</td></tr> <tr><td>IC0517</td><td>CI</td><td>33.5</td><td>IC0197.2</td><td>CI</td><td>305</td></tr> <tr><td>IC1014</td><td>CI</td><td>33.5</td><td>IC0197.3</td><td>CI</td><td>305</td></tr> <tr><td>IC1298</td><td>CI</td><td>33.5</td><td>IC0197.4</td><td>CI</td><td>305</td></tr> <tr><td>IC1302</td><td>CI</td><td>67.0</td><td>IC1347.1</td><td>CI</td><td>305</td></tr> <tr><td>IC1311</td><td>CI</td><td>13.4</td><td>IC1347.2</td><td>CI</td><td>305</td></tr> <tr><td>IC1402</td><td>CI</td><td>402</td><td>IC1347.3</td><td>CI</td><td>305</td></tr> <tr><td>IC1403</td><td>CI</td><td>201</td><td>IC1347.4</td><td>CI</td><td>305</td></tr> <tr><td>IC1413</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC1501</td><td>CI</td><td>46.9</td><td colspan="3"></td></tr> <tr><td>IC1819</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC2103</td><td>CI</td><td>201</td><td colspan="3"></td></tr> <tr><td>IC2192</td><td>CI</td><td>670</td><td colspan="3"></td></tr> <tr><td>IC2706</td><td>SI</td><td>53.6</td><td colspan="3"></td></tr> <tr><td>IC2708</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC3240</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC3491</td><td>CI</td><td>1608</td><td colspan="3"></td></tr> <tr><td>IC3502</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC3503</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC3535</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC3539</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC3600</td><td>CI</td><td>134</td><td colspan="3"></td></tr> <tr><td>IC4799</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC4827</td><td>CI</td><td>670</td><td colspan="3"></td></tr> <tr><td>IC5250</td><td>CI</td><td>46.9</td><td colspan="3"></td></tr> <tr><td>IC6400</td><td>CI</td><td>33.5</td><td colspan="3"></td></tr> <tr><td>IC8077</td><td>CI</td><td>134</td><td colspan="3"></td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">FLIGHTLINE BARRIER</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>ICFBE#1</td><td>SI</td><td>65.9</td></tr> <tr><td>ICFBE#2</td><td>SI</td><td>65.9</td></tr> <tr><td>ICFBE#3</td><td>SI</td><td>65.9</td></tr> <tr><td>ICFBE#4</td><td>SI</td><td>65.9</td></tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>GR#1</td><td>CI</td><td>368.5</td></tr> <tr><td>GR#2</td><td>CI</td><td>368.5</td></tr> <tr><td>SC#1</td><td>CI</td><td>80.4</td></tr> <tr><td>SC#2</td><td>CI</td><td>134</td></tr> <tr><td>JB#1</td><td>CI</td><td>167.5</td></tr> <tr><td>JB#2</td><td>CI</td><td>167.5</td></tr> <tr><td>ETI.BC</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BD</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BE</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BG</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BI</td><td>SI</td><td>167.5</td></tr> </tbody> </table>	ON BASE GENERATORS			FIRE PUMPS			Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)	IC0206	CI	80.4	IC0197.1	CI	305	IC0517	CI	33.5	IC0197.2	CI	305	IC1014	CI	33.5	IC0197.3	CI	305	IC1298	CI	33.5	IC0197.4	CI	305	IC1302	CI	67.0	IC1347.1	CI	305	IC1311	CI	13.4	IC1347.2	CI	305	IC1402	CI	402	IC1347.3	CI	305	IC1403	CI	201	IC1347.4	CI	305	IC1413	CI	33.5				IC1501	CI	46.9				IC1819	CI	33.5				IC2103	CI	201				IC2192	CI	670				IC2706	SI	53.6				IC2708	CI	33.5				IC3240	CI	33.5				IC3491	CI	1608				IC3502	CI	33.5				IC3503	CI	33.5				IC3535	CI	33.5				IC3539	CI	33.5				IC3600	CI	134				IC4799	CI	33.5				IC4827	CI	670				IC5250	CI	46.9				IC6400	CI	33.5				IC8077	CI	134				FLIGHTLINE BARRIER			Equip ID	SI/CI	Power (HP)	ICFBE#1	SI	65.9	ICFBE#2	SI	65.9	ICFBE#3	SI	65.9	ICFBE#4	SI	65.9	OFF BASE GENERATORS			Equip ID	SI/CI	Power (HP)	GR#1	CI	368.5	GR#2	CI	368.5	SC#1	CI	80.4	SC#2	CI	134	JB#1	CI	167.5	JB#2	CI	167.5	ETI.BC	SI	167.5	ETI.BD	SI	167.5	ETI.BE	SI	167.5	ETI.BG	SI	167.5	ETI.BI	SI	167.5
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§63.6610	By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions?	No	N/A	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																																																																							
§63.6610(a)	You must conduct the initial performance test or other initial compliance demonstrations in Table 4 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).	No	Ex Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																																																																							
§63.6610(b)	Initial compliance demonstration if you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions.	No	Ex Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																																																																							
§63.6610(c)	Second performance test if you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions.	No	Ex Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																																																																							
§63.6610(d)(1)-(5)	An owner or operator is not required to conduct an initial performance test on units for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (d)(1) through (5) of this section.	No	Ex Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																																																																																																																																																																							

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
§63.6611	4SLB SI stationary RICE.	No	N/A	MHAFB is not located at a major source of HAP.	N/A
§63.6612	Initial performance tests or compliance demonstrations for existing stationary RICE < 500 brake HP at a major source of HAP emissions or an existing stationary RICE at an area source?	No	Ex Stationary RICE < 500 brake HP	MHAFB is not located at a major source of HAP.	N/A
§63.6612 (a)	You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date.	No	Ex Non-Emer CI 100 ≤ HP ≤ 500	MHAFB is not located at a major source of HAP.	N/A
§63.6612 (b)(1)-(4)	An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted.	No	Ex Non-Emer CI 100 ≤ HP ≤ 500	MHAFB is not located at a major source of HAP.	N/A
§63.6615	When must I conduct subsequent performance tests of Table 3?	No	Ex Non Emer CI > 500 HP	MHAFB does not have sources that are required to conduct performance tests.	N/A
§63.6620(a)-(i)	What performance tests and other procedures must I use?	No	Ex Non-Emer CI 100 ≤ HP ≤ 500 Ex Non Emer CI > 500 HP	MHAFB does not have sources that are required to conduct performance tests.	N/A
§63.6625	Monitoring, installation, operation, and maintenance requirements.	Yes	N/A	See the respective §63.6625(a)-(k) subsection(s) explanation(s).	N/A
§63.6625(a)(1)-(4)	If you elect to install a CEMS as specified in Table 5 of this subpart, it must be according to the requirements in paragraphs (a)(1) through (4) of this section.	No	Ex Non Emer CI > 500 HP	MHAFB does not have sources that meet these criteria.	N/A
§63.6625(b)(1)-(6)	Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6).	No	Ex Non Emer CI > 500 HP	MHAFB does not have sources that meet these criteria.	N/A
§63.6625(c)	Operating a new or reconstructed stationary RICE which fires landfill gas or digester gas.	No	N/A	MHAFB does not have sources that meet this criterion.	N/A
§63.6625(d)	Operating a new or reconstructed emergency 4SLB stationary RICE with a site rating of ≥ 250 and ≤ 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter prior to the startup of the engine.	No	N/A	MHAFB is not located at a major source of HAP.	N/A
§63.6625(e)	If you own or operate any of the following stationary RICE you must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan.	Yes	N/A	MHAFB complies with this requirement. See the respective §63.6625(e)(1)-(10) subsection(s) explanation(s).	N/A
§63.6625(e)(1)	Existing stationary RICE with a site rating of < 100 HP located at a major source.	No	Ex RICE < 100 HP	MHAFB is not located at a major source of HAP.	N/A
§63.6625(e)(2)	Existing emergency or black start stationary RICE with a site rating of < 500 HP located at a major source.	No	Ex Emer CI ≤ 500 HP Ex Emer SI ≤ 500 HP	MHAFB is not located at a major source of HAP.	N/A

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>					
					ON BASE GENERATORS			FIRE PUMPS		
					Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)
§63.6625(e)(3)	Existing emergency or black start stationary RICE located at an area source of HAP emissions	Yes	See Requirement	The sources listed meet this criterion.	IC0206	CI	80.4	IC0197.1	CI	305
					IC0517	CI	33.5	IC0197.2	CI	305
					IC1014	CI	33.5	IC0197.3	CI	305
					IC1298	CI	33.5	IC0197.4	CI	305
					IC1302	CI	67.0	IC1347.1	CI	305
					IC1311	CI	13.4	IC1347.2	CI	305
					IC1402	CI	402	IC1347.3	CI	305
					IC1403	CI	201	IC1347.4	CI	305
					IC1413	CI	33.5			
					IC1501	CI	46.9			
					IC1819	CI	33.5			
					IC2103	CI	201			
					IC2192	CI	670			
					IC2706	SI	53.6			
					IC2708	CI	33.5			
					IC3240	CI	33.5			
					IC3491	CI	1608			
					IC3502	CI	33.5			
					IC3503	CI	33.5			
					IC3535	CI	33.5			
					IC3539	CI	33.5			
IC3600	CI	134								
IC4799	CI	33.5								
IC4827	CI	670								
IC5250	CI	46.9								
IC6400	CI	33.5								
IC8077	CI	134								
§63.6625(e)(4)	An existing non-emergency, non-black start stationary CI RICE with a site rating less than or equal to 300 HP located at an area source of HAP emissions	No	See Requirement	MHAFB does not have sources that meet these criteria.	N/A					
§63.6625(e)(5)	An existing non-emergency, non-black start 2SLB stationary RICE located at an area source of HAP emissions	No	See Requirement	MHAFB does not have sources that meet these criteria.	N/A					
§63.6625(e)(6)	An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.	No	See Requirement	MHAFB does not have sources that meet these criteria.	N/A					
§63.6625(e)(7)	An existing non-emergency, non-black start 4SLB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions	No	See Requirement	MHAFB does not have sources that meet these criteria.	N/A					
§63.6625(e)(8)	An existing non-emergency, non-black start 4SRB stationary RICE with a site rating less than or equal to 500 HP located at an area source of HAP emissions	Yes	See Requirement	The sources listed meet this criterion.	FLIGHTLINE BARRIER			OFF BASE GENERATORS		
					Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power(HP)
					ICFBE#1	SI	65.9	ETI.BC	SI	167.5
					ICFBE#2	SI	65.9	ETI.BD	SI	167.5
					ICFBE#3	SI	65.9	ETI.BE	SI	167.5
				ICFBE#4	SI	65.9	ETI.BG	SI	167.5	
							ETI.BI	SI	167.5	
§63.6625(e)(9)	An existing, non-emergency, non-black start 4SLB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.	No	See Requirement	MHAFB does not have sources that meet these criteria.						
§63.6625(e)(10)	An existing, non-emergency, non-black start 4SRB stationary RICE with a site rating greater than 500 HP located at an area source of HAP emissions that is operated 24 hours or less per calendar year.	No	See Requirement	MHAFB does not have sources that meet these criteria.						

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>					
					ON BASE GENERATORS			FIRE PUMPS		
					Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)
§63.6625(f)	If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.	Yes	Ex Emer CI ≤ 500 HP Ex Emer SI ≤ 500 HP	The sources listed meet this criterion.	IC0206	CI	80.4	IC0197.1	CI	305
					IC0517	CI	33.5	IC0197.2	CI	305
					IC1014	CI	33.5	IC0197.3	CI	305
					IC1298	CI	33.5	IC0197.4	CI	305
					IC1302	CI	67.0	IC1347.1	CI	305
					IC1311	CI	13.4	IC1347.2	CI	305
					IC1402	CI	402	IC1347.3	CI	305
					IC1403	CI	201	IC1347.4	CI	305
					IC1413	CI	33.5			
					IC1501	CI	46.9			
					IC1819	CI	33.5			
					IC2103	CI	201			
					IC2192	CI	670			
					IC2706	SI	53.6			
					IC2708	CI	33.5			
					IC3240	CI	33.5			
					IC3491	CI	1608			
					IC3502	CI	33.5			
					IC3503	CI	33.5			
					IC3535	CI	33.5			
					IC3539	CI	33.5			
					IC3600	CI	134			
					IC4799	CI	33.5			
IC4827	CI	670								
IC5250	CI	46.9								
IC6400	CI	33.5								
IC8077	CI	134								
§63.6625(g)	If you own or operate an existing non-emergency CI engine ≥ 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (g)(2) of this section.	No	N/A	MHAFB does not have sources that meet these criteria.	N/A					
§63.6625(g)(1)	Install a closed crankcase ventilation system...	No	Ex Non Emer CI ≥ 300 HP	MHAFB does not have sources that meet this criterion.	N/A					
§63.6625(g)(2)	Install an open crankcase filtration emission control system...	No	Ex Non Emer CI ≥ 300 HP	MHAFB does not have sources that meet this criterion.	N/A					

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					ON BASE GENERATORS			FIRE PUMPS			FLIGHTLINE BARRIER			OFF BASE GENERATORS		
					Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)
§63.6625(h)	Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	Yes	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP HP Ex Emer SI ≤ 500 HP Ex Non Emer CI > 500 HP	MHAFB is subject to this requirement.	IC0206	CI	80.4	IC0197.1	CI	305	IC1819	CI	33.5	GR#1	CI	368.5
					IC0517	CI	33.5	IC0197.2	CI	305	IC2103	CI	201	GR#2	CI	368.5
					IC1014	CI	33.5	IC0197.3	CI	305	IC2192	CI	670	SC#1	CI	80.4
					IC1298	CI	33.5	IC0197.4	CI	305	IC2706	SI	53.6	SC#2	CI	134
					IC1302	CI	67.0	IC1347.1	CI	305	IC2708	CI	33.5	JB#1	CI	167.5
					IC1311	CI	13.4	IC1347.2	CI	305	IC3240	CI	33.5	JB#2	CI	167.5
					IC1402	CI	402	IC1347.3	CI	305	IC3491	CI	1608	ETLBC	SI	167.5
					IC1403	CI	201	IC1347.4	CI	305	IC3502	CI	33.5	ETLBD	SI	167.5
					IC1413	CI	33.5			IC3503	CI	33.5	ETLBE	SI	167.5	
					IC1501	CI	46.9			IC3535	CI	33.5	ETLBG	SI	167.5	
					IC1819	CI	33.5			IC3539	CI	33.5	ETLBI	SI	167.5	
					IC2103	CI	201			IC3600	CI	134				
					IC2192	CI	670			IC4799	CI	33.5				
					IC2706	SI	53.6			IC4827	CI	670				
					IC2708	CI	33.5			IC5250	CI	46.9				
					IC3240	CI	33.5			IC6400	CI	33.5				
					IC3491	CI	1608			IC8077	CI	134				
					IC3502	CI	33.5									
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					IC3539	CI	33.5									
					IC3600	CI	134									
					IC4799	CI	33.5									
					IC4827	CI	670									
					IC5250	CI	46.9									
					IC6400	CI	33.5									
					IC8077	CI	134									
§63.6625(i)	If you own or operate a stationary engine subject to the work, operation or management practices in items 1 or 2 of Table 2c to this subpart or 1 or 4 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement.	Yes	Stationary CI Engines	The sources listed meet this criterion.	IC0206	CI	80.4	IC0197.1	CI	305	IC1819	CI	33.5	GR#1	CI	368.5
					IC0517	CI	33.5	IC0197.2	CI	305	IC2103	CI	201	GR#2	CI	368.5
					IC1014	CI	33.5	IC0197.3	CI	305	IC2192	CI	670	SC#1	CI	80.4
					IC1298	CI	33.5	IC0197.4	CI	305	IC2706	CI	33.5	SC#2	CI	134
					IC1302	CI	67.0	IC1347.1	CI	305	IC2708	CI	33.5	JB#1	CI	167.5
					IC1311	CI	13.4	IC1347.2	CI	305	IC3240	CI	33.5	JB#2	CI	167.5
					IC1402	CI	402	IC1347.3	CI	305	IC3491	CI	1608			
					IC1403	CI	201	IC1347.4	CI	305	IC3502	CI	33.5			
					IC1413	CI	33.5			IC3503	CI	33.5				
					IC1501	CI	46.9			IC3535	CI	33.5				
					IC1819	CI	33.5			IC3539	CI	33.5				
					IC2103	CI	201			IC3600	CI	134				
					IC2192	CI	670			IC4799	CI	33.5				
					IC2706	CI	33.5			IC4827	CI	670				
					IC3240	CI	33.5			IC5250	CI	46.9				
					IC3491	CI	1608			IC6400	CI	33.5				
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					IC4827	CI	670									
					IC5250	CI	46.9									
					IC6400	CI	33.5									
					IC8077	CI	134									



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§63.6640(a)	You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.	Yes	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP HP Ex Emer SI ≤ 500 HP Ex Non Emer CI > 500 HP	MHAFB is subject to this section. MHAFB must demonstrate continuous compliance with Sections 4, 5, and 10 of Table 2d according to methods listed in Table 6: i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow 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	<b>ON BASE GENERATORS</b> <b>Equip ID SI/CI Power (HP)</b> IC0206 CI 80.4 IC0517 CI 33.5 IC1014 CI 33.5 IC1298 CI 33.5 IC1302 CI 67.0 IC1311 CI 13.4 IC1402 CI 402 IC1403 CI 201 IC1413 CI 33.5 IC1501 CI 46.9 IC1819 CI 33.5 IC2103 CI 201 IC2192 CI 670 IC2706 SI 53.6 IC2708 CI 33.5 IC3240 CI 33.5 IC3491 CI 1608 IC3502 CI 33.5 IC3503 CI 33.5 IC3535 CI 33.5 IC3539 CI 33.5 IC3600 CI 134 IC4799 CI 33.5 IC4827 CI 670 IC5250 CI 46.9 IC6400 CI 33.5 IC8077 CI 134			<b>FIRE PUMPS</b> <b>Equip ID SI/CI Power (HP)</b> IC0197.1 CI 305 IC0197.2 CI 305 IC0197.3 CI 305 IC0197.4 CI 305 IC1347.1 CI 305 IC1347.2 CI 305 IC1347.3 CI 305 IC1347.4 CI 305  <b>FLIGHTLINE BARRIER</b> <b>Equip ID SI/CI Power (HP)</b> ICFBE#1 SI 65.9 ICFBE#2 SI 65.9 ICFBE#3 SI 65.9 ICFBE#4 SI 65.9  <b>OFF BASE GENERATORS</b> <b>Equip ID SI/CI Power (HP)</b> GR#1 CI 368.5 GR#2 CI 368.5 SC#1 CI 80.4 SC#2 CI 134 JB#1 CI 167.5 JB#2 CI 167.5 ETI.BC SI 167.5 ETI.BD SI 167.5 ETI.BE SI 167.5 ETI.BG SI 167.5 ETI.BI SI 167.5					
§63.6640(b)	You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you.	No	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP HP Ex Emer SI ≤ 500 HP Ex Non Emer CI > 500 HP	MHAFB does not have emission or operating limitations since it is not a major source of HAP.Emissions	N/A								
§63.6640(c)(1)-(7)	The annual compliance demonstration required for existing non-emergency 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at an area source of HAP that are not remote stationary RICE and that are operated more than 24 hours per calendar year must be conducted according to the following requirements	No	Ex Non Emer 4SLB and 4SRB stationary RICE > 500 HP	MHAFB does not have sources that meet this criterion.	N/A								
§63.6640(d)	For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations.	Yes	New RICE	The engines listed under Equipment ID are new, stationary RICE and are subject to this subpart.	<b>ON BASE GENERATORS</b> <b>Equip ID SI/CI Power (HP)</b> IC0196.2 CI 13.4 IC0258 CI 268 IC0261 CI 335 IC0265 CI 234.5 IC0508 CI 268 IC0610.2 CI 402 IC1317 CI 234.5 IC1321 CI 80.4 IC1333 CI 40.2 IC1341.2 CI 502.5 IC1795 CI 201 IC2316.2 CI 80.4 IC3210 CI 80.4			<b>ON BASE GENERATORS</b> <b>Equip ID SI/CI Power (HP)</b> IC3499.2 CI 134 IC6000.1 CI 1096 IC6000.2 CI 1096 IC6300.2 CI 13.4 IC6399 CI 469 IC13509 CI 26.8					
§63.6640(e)	You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE located at an area source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart.	No	All RICE	The engines listed under Equipment ID are new, stationary RICE and therefore are not subject to the requirements in Table 8.				<b>OFF BASE GENERATORS</b> <b>Equip ID SI/CI Power (HP)</b> ETI.BA SI 134 ETI.BF SI 134 ETI.BJ SI 80.4					

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					ON BASE GENERATORS			FIRE PUMPS		
					Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)
§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.	Yes	Ex Emer Stationary RICE	The sources listed meet this criterion.	IC0206	CI	80.4	IC0197.1	CI	305
					IC0517	CI	33.5	IC0197.2	CI	305
					IC1014	CI	33.5	IC0197.3	CI	305
					IC1298	CI	33.5	IC0197.4	CI	305
					IC1302	CI	67.0	IC1347.1	CI	305
					IC1311	CI	13.4	IC1347.2	CI	305
					IC1402	CI	402	IC1347.3	CI	305
					IC1403	CI	201	IC1347.4	CI	305
§63.6640(f)(1)	There is no time limit on the use of emergency stationary RICE in emergency situations.	Yes	Ex Emer Stationary RICE	The sources listed meet this criterion.	IC1413	CI	33.5	<b>OFF BASE GENERATORS</b>		
					IC1501	CI	46.9	<b>Equip ID</b>	<b>SI/CI</b>	<b>Power (HP)</b>
					IC1819	CI	33.5	GR#1	CI	368.5
					IC2103	CI	201	GR#2	CI	368.5
					IC2192	CI	670	SC#1	CI	80.4
					IC2706	SI	53.6	SC#2	CI	134
					IC2708	CI	33.5	JB#1	CI	167.5
					IC3240	CI	33.5	JB#2	CI	167.5
					IC3491	CI	1608			
					IC3502	CI	33.5			
					IC3503	CI	33.5			
					IC3535	CI	33.5			
					IC3539	CI	33.5			
					IC3600	CI	134			
					IC4799	CI	33.5			
					IC4827	CI	670			
					IC5250	CI	46.9			
					IC6400	CI	33.5			
					IC8077	CI	134			
§63.6640(f)(2)(i)	Emergency stationary RICE may be operated for maintenance checks and readiness testing	Yes	Ex Emer Stationary RICE	The sources listed meet this criterion.						
§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)	No	Ex Emer Stationary RICE	MHAFB does not have sources that meet this criterion.	N/A					
§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.	No	Ex Emer Stationary RICE	MHAFB does not have sources that meet this criterion.	N/A					
§63.6640(f)(3)	Emergency stationary RICE located at major sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations.	No	Ex Emer Stationary RICE	MHAFB is not located at a major source of HAP.	N/A					

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																				
§63.6640(f)(4)	Emergency stationary RICE located at area sources of HAP may be operated for up to 50 hours per calendar year in non-emergency situations.	Yes	Ex Emer Stationary RICE	The sources listed meet these criteria.	<b>ON BASE GENERATORS</b> <table border="1"> <thead> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>IC0206</td><td>CI</td><td>80.4</td></tr> <tr><td>IC0517</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1014</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1298</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1302</td><td>CI</td><td>67.0</td></tr> <tr><td>IC1311</td><td>CI</td><td>13.4</td></tr> <tr><td>IC1402</td><td>CI</td><td>402</td></tr> <tr><td>IC1403</td><td>CI</td><td>201</td></tr> <tr><td>IC1413</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1501</td><td>CI</td><td>46.9</td></tr> <tr><td>IC1819</td><td>CI</td><td>33.5</td></tr> <tr><td>IC2103</td><td>CI</td><td>201</td></tr> <tr><td>IC2192</td><td>CI</td><td>670</td></tr> <tr><td>IC2706</td><td>SI</td><td>53.6</td></tr> <tr><td>IC2708</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3240</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3491</td><td>CI</td><td>1608</td></tr> <tr><td>IC3502</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3503</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3535</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3539</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3600</td><td>CI</td><td>134</td></tr> <tr><td>IC4799</td><td>CI</td><td>33.5</td></tr> <tr><td>IC4827</td><td>CI</td><td>670</td></tr> <tr><td>IC5250</td><td>CI</td><td>46.9</td></tr> <tr><td>IC6400</td><td>CI</td><td>33.5</td></tr> <tr><td>IC8077</td><td>CI</td><td>134</td></tr> </tbody> </table>	Equip ID	SI/CI	Power (HP)	IC0206	CI	80.4	IC0517	CI	33.5	IC1014	CI	33.5	IC1298	CI	33.5	IC1302	CI	67.0	IC1311	CI	13.4	IC1402	CI	402	IC1403	CI	201	IC1413	CI	33.5	IC1501	CI	46.9	IC1819	CI	33.5	IC2103	CI	201	IC2192	CI	670	IC2706	SI	53.6	IC2708	CI	33.5	IC3240	CI	33.5	IC3491	CI	1608	IC3502	CI	33.5	IC3503	CI	33.5	IC3535	CI	33.5	IC3539	CI	33.5	IC3600	CI	134	IC4799	CI	33.5	IC4827	CI	670	IC5250	CI	46.9	IC6400	CI	33.5	IC8077	CI	134
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<b>Notifications, Reports, and Records</b>																																																																																									
§63.6645	What notifications must I submit and when?	No		See the respective §63.6645(a)-(h) subsection(s) explanation(s).	N/A																																																																																				
§63.6645(a)	You must submit all of the notifications in § 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following:	No	N/A	See the respective §63.6645(a)(1)-(5) subsection(s) explanation(s).	N/A																																																																																				
§63.6645(a)(1)	An existing stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions.	No	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																				
§63.6645(a)(2)	An existing stationary RICE located at an area source of HAP emissions.	No	Ex stationary RICE	MHAFB is located at an area source of HAP; however MHAFB is not subject to this section per §63.6645(a)(5)	N/A																																																																																				
§63.6645(a)(3)	A stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions.	No	Ex Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A																																																																																				
§63.6645(a)(4)	A new or reconstructed 4SLB stationary RICE with a site rating of ≥ 250 HP located at a major source of HAP emissions.	No	N/A	MHAFB is not located at a major source of HAP.	N/A																																																																																				

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>											
					ON BASE GENERATORS			FIRE PUMPS			FLIGHTLINE BARRIER			OFF BASE GENERATORS		
					Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)
§63.6645(a)(5)	This requirement does not apply if you own or operate an existing stationary RICE less than 100 HP, an existing stationary emergency RICE, or an existing stationary RICE that is not subject to any numerical emission standards.	Yes	Ex RICE < 100 HP Emer RICE	The sources listed meet these criteria and therefore the notifications in § 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) are not required.	IC0206	CI	80.4	IC0197.1	CI	305	IC02103	CI	201	IC02192	CI	670
					IC0517	CI	33.5	IC0197.2	CI	305	IC2706	SI	53.6	IC2708	CI	33.5
					IC1014	CI	33.5	IC0197.3	CI	305	IC3240	CI	33.5	IC3491	CI	1608
					IC1298	CI	33.5	IC0197.4	CI	305	IC3502	CI	33.5	IC3503	CI	33.5
					IC1302	CI	67.0	IC1347.1	CI	305	IC3535	CI	33.5	IC3539	CI	33.5
					IC1311	CI	13.4	IC1347.2	CI	305	IC3600	CI	134	IC4799	CI	33.5
					IC1402	CI	402	IC1347.3	CI	305	IC4827	CI	670	IC5250	CI	46.9
					IC1403	CI	201	IC1347.4	CI	305	IC6400	CI	33.5	IC8077	CI	134
					IC1413	CI	33.5									
					IC1501	CI	46.9									
					IC1819	CI	33.5									
					IC2103	CI	201									
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					IC3539	CI	33.5									
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					IC4827	CI	670									
					IC5250	CI	46.9									
					IC6400	CI	33.5									
					IC8077	CI	134									
§63.6645(b)	As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004.	No	Ex Non Emer > 500 HP excluding CI New Emer > 500 HP	MHAFB is not located at a major source of HAP.	N/A											
§63.6645(c)	If you start up your new or reconstructed stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.	No	New Emer > 500 HP	MHAFB is not located at a major source of HAP.	N/A											
§63.6645(d)	As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and you are required to submit an Initial Notification, you must submit an Initial Notification not later than July 16, 2008.	No	CI ≤ 500 HP SI ≤ 500 HP	MHAFB is not located at a major source of HAP.	N/A											
§63.6645(e)	If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 you must submit an Initial Notification not later than 120 days after you become subject to this subpart.	No	New RICE ≤ 500 HP	MHAFB is not located at a major source of HAP.	N/A											
§63.6645(f)	If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, your notification should include the information in §63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements.	No	New Emer > 500 HP	MHAFB is not required to submit initial notification since this requirement is applicable only to major sources of HAP.	N/A											
§63.6645(g)	Notification of Intent to conduct a performance test as required in §63.7(b)(1).	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB is not required to conduct performance tests.	N/A											
§63.6645(h)	Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart.	No	N/A	There are no requirements in Tables 4 and 5 that are applicable to MHAFB.	N/A											
§63.6645(h)(1)	Notification of Compliance Status for compliance demonstrations that do not include a performance test.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB is not required to conduct performance tests.	N/A											

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
§63.6645(h)(2)	Notification of Compliance Status for compliance demonstrations that include a performance test.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB is not required to conduct performance tests.	N/A
§63.6645(i)	If you own or operate an existing non-emergency CI RICE with a site rating of more than 300 HP located at an area source of HAP...	No	Ex Non Emer CI RICE > 300 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6650	What reports must I submit and when?	No	N/A	MHAFB does not have sources that meet this criterion.	N/A
§63.6650(a)	You must submit each report in Table 7 of this subpart that applies to you.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6650(b)(1)-(9)	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.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6650(c)(1)-(6)	The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6650(d)(1)-(2)	For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6650(e)(1)-(12)	Deviations from an emission or operating limitation for stationary RICE that use a CMS to comply with the emission and operating limitations in this subpart.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6650(f)	Reporting deviations.	No	Ex Non Emer > 500 HP Ex Non Emer ≤ 500 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6650(g)(1)-(3)	New or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.	No	N/A	MHAFB does not have sources that meet this criterion.	N/A
§63.6655	What records must I keep?	Yes	N/A	See the respective §63.6655(a)-(f) subsection(s) explanation(s).	N/A
§63.6655(a)(1)-(5)	Records required if you must comply with the emission and operating limitations.	No	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP Ex Emer SI ≤ 500 HP Ex Non Emer CI > 500 HP	The existing RICE at MHAFB do not have emission and operating limitations.	N/A
§63.6655(b)(1)-(3)	Records required for each CEMS or CPMS.	No	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP Ex Emer SI ≤ 500 HP Ex Non Emer CI > 500 HP	The existing RICE at MHAFB do not have CEMS or CPMS.	N/A
§63.6655(c)	Records for RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.	No	N/A	MHAFB does not have sources that meet this criterion.	N/A
§63.6655(d)	Records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.	No	Ex Emer CI ≤ 500 HP Ex Non Emer CI ≤ 500 HP Ex Emer SI ≤ 500 HP Ex Non Emer CI > 500 HP	MHAFB does not have sources that meet this criterion.	N/A
§63.6655(e)	Records of the maintenance conducted in accordance with your own maintenance plan for stationary RICE and after-treatment control device (if any).	Yes	All existing RICE	See the respective §63.6655(e)(1)-(2) subsection(s) explanation(s).	N/A
§63.6655(e)(1)	An existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.	No	Ex Emer CI ≤ 100 HP Ex Emer SI ≤ 100 HP	MHAFB is not located at a major source of HAP.	N/A



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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																																																																																																					
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§63.6665	What parts of the General Provisions apply to me?	Yes	All Stationary RICE, except: Ex LU > 500 HP Ex Emer > 500 HP New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ	MHAFB does not need to comply with General Provisions for new stationary RICE; however, MHAFB must comply with General Provision for existing stationary RICE.	<table border="1"> <thead> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>IC0206</td><td>CI</td><td>80.4</td></tr> <tr><td>IC0517</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1014</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1298</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1302</td><td>CI</td><td>67.0</td></tr> <tr><td>IC1311</td><td>CI</td><td>13.4</td></tr> <tr><td>IC1402</td><td>CI</td><td>402</td></tr> <tr><td>IC1403</td><td>CI</td><td>201</td></tr> <tr><td>IC1413</td><td>CI</td><td>33.5</td></tr> <tr><td>IC1501</td><td>CI</td><td>46.9</td></tr> <tr><td>IC1819</td><td>CI</td><td>33.5</td></tr> <tr><td>IC2103</td><td>CI</td><td>201</td></tr> <tr><td>IC2192</td><td>CI</td><td>670</td></tr> <tr><td>IC2706</td><td>SI</td><td>53.6</td></tr> <tr><td>IC2708</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3240</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3491</td><td>CI</td><td>1608</td></tr> <tr><td>IC3502</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3503</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3535</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3539</td><td>CI</td><td>33.5</td></tr> <tr><td>IC3600</td><td>CI</td><td>134</td></tr> <tr><td>IC4799</td><td>CI</td><td>33.5</td></tr> <tr><td>IC4827</td><td>CI</td><td>670</td></tr> <tr><td>IC5250</td><td>CI</td><td>46.9</td></tr> <tr><td>IC6400</td><td>CI</td><td>33.5</td></tr> <tr><td>IC8077</td><td>CI</td><td>134</td></tr> </tbody> </table>	Equip ID	SI/CI	Power (HP)	IC0206	CI	80.4	IC0517	CI	33.5	IC1014	CI	33.5	IC1298	CI	33.5	IC1302	CI	67.0	IC1311	CI	13.4	IC1402	CI	402	IC1403	CI	201	IC1413	CI	33.5	IC1501	CI	46.9	IC1819	CI	33.5	IC2103	CI	201	IC2192	CI	670	IC2706	SI	53.6	IC2708	CI	33.5	IC3240	CI	33.5	IC3491	CI	1608	IC3502	CI	33.5	IC3503	CI	33.5	IC3535	CI	33.5	IC3539	CI	33.5	IC3600	CI	134	IC4799	CI	33.5	IC4827	CI	670	IC5250	CI	46.9	IC6400	CI	33.5	IC8077	CI	134	<table border="1"> <thead> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>IC0197.1</td><td>CI</td><td>305</td></tr> <tr><td>IC0197.2</td><td>CI</td><td>305</td></tr> <tr><td>IC0197.3</td><td>CI</td><td>305</td></tr> <tr><td>IC0197.4</td><td>CI</td><td>305</td></tr> <tr><td>IC1347.1</td><td>CI</td><td>305</td></tr> <tr><td>IC1347.2</td><td>CI</td><td>305</td></tr> <tr><td>IC1347.3</td><td>CI</td><td>305</td></tr> <tr><td>IC1347.4</td><td>CI</td><td>305</td></tr> </tbody> </table>	Equip ID	SI/CI	Power (HP)	IC0197.1	CI	305	IC0197.2	CI	305	IC0197.3	CI	305	IC0197.4	CI	305	IC1347.1	CI	305	IC1347.2	CI	305	IC1347.3	CI	305	IC1347.4	CI	305	<table border="1"> <thead> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>ICFB#1</td><td>SI</td><td>65.9</td></tr> <tr><td>ICFB#2</td><td>SI</td><td>65.9</td></tr> <tr><td>ICFB#3</td><td>SI</td><td>65.9</td></tr> <tr><td>ICFB#4</td><td>SI</td><td>65.9</td></tr> </tbody> </table>	Equip ID	SI/CI	Power (HP)	ICFB#1	SI	65.9	ICFB#2	SI	65.9	ICFB#3	SI	65.9	ICFB#4	SI	65.9	<table border="1"> <thead> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>GR#1</td><td>CI</td><td>368.5</td></tr> <tr><td>GR#2</td><td>CI</td><td>368.5</td></tr> <tr><td>SC#1</td><td>CI</td><td>80.4</td></tr> <tr><td>SC#2</td><td>CI</td><td>134</td></tr> <tr><td>JB#1</td><td>CI</td><td>167.5</td></tr> <tr><td>JB#2</td><td>CI</td><td>167.5</td></tr> <tr><td>ETI.BC</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BD</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BE</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BG</td><td>SI</td><td>167.5</td></tr> <tr><td>ETI.BI</td><td>SI</td><td>167.5</td></tr> </tbody> </table>	Equip ID	SI/CI	Power (HP)	GR#1	CI	368.5	GR#2	CI	368.5	SC#1	CI	80.4	SC#2	CI	134	JB#1	CI	167.5	JB#2	CI	167.5	ETI.BC	SI	167.5	ETI.BD	SI	167.5	ETI.BE	SI	167.5	ETI.BG	SI	167.5	ETI.BI	SI	167.5
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§63.6670(a)-(c)	Who implements and enforces this subpart?	No	N/A	MHAFB does not implement or enforce this subpart.	N/A																																																																																																																																																																					
§63.6675	What definitions apply to this subpart?	Yes	All Stationary RICE	Definitions are applicable to all stationary RICE.	All Stationary RICE																																																																																																																																																																					
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Table 1a	Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources	No	N/A	MHAFB is not a Major Source so is not subject to Table 1a.	N/A																																																																																																																																																																					
Table 1b	Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP	No	N/A	MHAFB is not a Major Source so is not subject to Table 1b.	N/A																																																																																																																																																																					
Table 2a	Operating Limitations for Existing, New, and Reconstructed Spark Ignition 4SRB Stationary RICE >500 HP Located at a Major Source of HAP Emissions and Existing Spark Ignition 4SRB Stationary RICE >500 HP Located at an Area Source of HAP Emissions	No	N/A	MHAFB is not a Major Source so is not subject to Table 2a.	N/A																																																																																																																																																																					
Table 2b	Operating Limitations for New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 HP Located at a Major Source of HAP Emissions, New and Reconstructed 4SLB Stationary RICE ≥250 HP Located at a Major Source of HAP Emissions, Existing Compression Ignition Stationary RICE >500 HP, and Existing 4SLB Stationary RICE >500 HP Located at an Area Source of HAP Emissions	No	N/A	MHAFB is not a Major Source so is not subject to Table 2b.	N/A																																																																																																																																																																					
Table 2c	Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤ 500 HP Located at a Major Source of HAP Emissions	No	N/A	MHAFB is not a Major Source so is not subject to Table 2c.	N/A																																																																																																																																																																					
Table 2d	Requirements for Existing Stationary RICE Located at Area Sources	Yes	N/A	MHAFB is subject to this Table.	N/A																																																																																																																																																																					
	<sup>1</sup> Non-Emergency, non-black start CI stationary RICE ≤300 HP	No	Non-Emergency, non-black start CI stationary RICE ≤300 HP	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																					

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Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>																																																																																																																																																																								
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4a	Change oil and filter every 500 hours of operation or annually, whichever comes first	Yes	Emergency stationary CI RICE and black start stationary CI RICE.	The sources listed meet the criteria of Emergency Stationary CI RICE.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> <th colspan="3">FIRE PUMPS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>IC0206</td><td>CI</td><td>80.4</td><td>IC0197.1</td><td>CI</td><td>305</td></tr> <tr><td>IC0517</td><td>CI</td><td>33.5</td><td>IC0197.2</td><td>CI</td><td>305</td></tr> <tr><td>IC1014</td><td>CI</td><td>33.5</td><td>IC0197.3</td><td>CI</td><td>305</td></tr> <tr><td>IC1298</td><td>CI</td><td>33.5</td><td>IC0197.4</td><td>CI</td><td>305</td></tr> <tr><td>IC1302</td><td>CI</td><td>67.0</td><td>IC1347.1</td><td>CI</td><td>305</td></tr> <tr><td>IC1311</td><td>CI</td><td>13.4</td><td>IC1347.2</td><td>CI</td><td>305</td></tr> <tr><td>IC1402</td><td>CI</td><td>402</td><td>IC1347.3</td><td>CI</td><td>305</td></tr> <tr><td>IC1403</td><td>CI</td><td>201</td><td>IC1347.4</td><td>CI</td><td>305</td></tr> <tr><td>IC1413</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC1501</td><td>CI</td><td>46.9</td><td></td><td></td><td></td></tr> <tr><td>IC1819</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC2103</td><td>CI</td><td>201</td><td></td><td></td><td></td></tr> <tr><td>IC2192</td><td>CI</td><td>670</td><td></td><td></td><td></td></tr> <tr><td>IC2708</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC3240</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC3491</td><td>CI</td><td>1608</td><td></td><td></td><td></td></tr> <tr><td>IC3502</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC3503</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC3535</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC3539</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC3600</td><td>CI</td><td>134</td><td></td><td></td><td></td></tr> <tr><td>IC4799</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC4827</td><td>CI</td><td>670</td><td></td><td></td><td></td></tr> <tr><td>IC5250</td><td>CI</td><td>46.9</td><td></td><td></td><td></td></tr> <tr><td>IC6400</td><td>CI</td><td>33.5</td><td></td><td></td><td></td></tr> <tr><td>IC8077</td><td>CI</td><td>134</td><td></td><td></td><td></td></tr> </tbody> </table>	ON BASE GENERATORS			FIRE PUMPS			Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)	IC0206	CI	80.4	IC0197.1	CI	305	IC0517	CI	33.5	IC0197.2	CI	305	IC1014	CI	33.5	IC0197.3	CI	305	IC1298	CI	33.5	IC0197.4	CI	305	IC1302	CI	67.0	IC1347.1	CI	305	IC1311	CI	13.4	IC1347.2	CI	305	IC1402	CI	402	IC1347.3	CI	305	IC1403	CI	201	IC1347.4	CI	305	IC1413	CI	33.5				IC1501	CI	46.9				IC1819	CI	33.5				IC2103	CI	201				IC2192	CI	670				IC2708	CI	33.5				IC3240	CI	33.5				IC3491	CI	1608				IC3502	CI	33.5				IC3503	CI	33.5				IC3535	CI	33.5				IC3539	CI	33.5				IC3600	CI	134				IC4799	CI	33.5				IC4827	CI	670				IC5250	CI	46.9				IC6400	CI	33.5				IC8077	CI	134			
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4b	Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary	Yes	Emergency stationary CI RICE and black start stationary CI RICE.	The sources listed meet the criteria of Emergency Stationary CI RICE.	<table border="1"> <thead> <tr> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>GR#1</td><td>CI</td><td>368.5</td></tr> <tr><td>GR#2</td><td>CI</td><td>368.5</td></tr> <tr><td>SC#1</td><td>CI</td><td>80.4</td></tr> <tr><td>SC#2</td><td>CI</td><td>134</td></tr> <tr><td>JB#1</td><td>CI</td><td>167.5</td></tr> <tr><td>JB#2</td><td>CI</td><td>167.5</td></tr> </tbody> </table>	OFF BASE GENERATORS			Equip ID	SI/CI	Power (HP)	GR#1	CI	368.5	GR#2	CI	368.5	SC#1	CI	80.4	SC#2	CI	134	JB#1	CI	167.5	JB#2	CI	167.5																																																																																																																																																
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4c	Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.	Yes	Emergency stationary CI RICE and black start stationary CI RICE.	The sources listed meet the criteria of Emergency Stationary CI RICE.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>IC2706</td><td>SI</td><td>53.6</td></tr> </tbody> </table>	ON BASE GENERATORS			Equip ID	SI/CI	Power (HP)	IC2706	SI	53.6																																																																																																																																																															
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5	Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE >500 HP that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE >500 HP that operate 24 hours or less per calendar year	Yes	See Requirement	The sources listed meet the criteria of Emergency Stationary SI RICE.	<table border="1"> <thead> <tr> <th colspan="3">ON BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> </tr> </thead> <tbody> <tr><td>IC2706</td><td>SI</td><td>53.6</td></tr> </tbody> </table>	ON BASE GENERATORS			Equip ID	SI/CI	Power (HP)	IC2706	SI	53.6																																																																																																																																																															
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6	Non-emergency, non-black start 2SLB stationary RICE	No	See Requirement	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																								
7	Non-emergency, non-black start 4SLB stationary RICE ≤500 HP	No	See Requirement	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																								
8	Non-emergency, non-black start 4SLB remote stationary RICE >500 HP	No	See Requirement	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																								
9	Non-emergency, non-black start 4SLB stationary RICE >500 HP that are not remote stationary RICE and that operate more than 24 hours per calendar year	No	See Requirement	MHAFB does not have sources that meet this criterion.	N/A																																																																																																																																																																								
10a	Change oil and filter every 1,440 hours of operation or annually, whichever comes first	Yes	Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	The sources listed meet these criteria.	<table border="1"> <thead> <tr> <th colspan="3">FLIGHTLINE BARRIER</th> <th colspan="3">OFF BASE GENERATORS</th> </tr> <tr> <th>Equip ID</th> <th>SI/CI</th> <th>Power (HP)</th> <th>Equip ID</th> <th>SI/CI</th> <th>Power(HP)</th> </tr> </thead> <tbody> <tr><td>ICFBE#1</td><td>SI</td><td>65.9</td><td>ETI.BC</td><td>SI</td><td>167.5</td></tr> <tr><td>ICFBE#2</td><td>SI</td><td>65.9</td><td>ETI.BD</td><td>SI</td><td>167.5</td></tr> <tr><td>ICFBE#3</td><td>SI</td><td>65.9</td><td>ETI.BE</td><td>SI</td><td>167.5</td></tr> <tr><td>ICFBE#4</td><td>SI</td><td>65.9</td><td>ETI.BG</td><td>SI</td><td>167.5</td></tr> <tr><td></td><td></td><td></td><td>ETI.BI</td><td>SI</td><td>167.5</td></tr> </tbody> </table>	FLIGHTLINE BARRIER			OFF BASE GENERATORS			Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power(HP)	ICFBE#1	SI	65.9	ETI.BC	SI	167.5	ICFBE#2	SI	65.9	ETI.BD	SI	167.5	ICFBE#3	SI	65.9	ETI.BE	SI	167.5	ICFBE#4	SI	65.9	ETI.BG	SI	167.5				ETI.BI	SI	167.5																																																																																																																														
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10b	Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first	Yes	Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	The sources listed meet these criteria.																																																																																																																																																																									
10c	Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.	Yes	Non-emergency, non-black start 4SRB stationary RICE ≤500 HP	The sources listed meet these criteria.																																																																																																																																																																									

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
11	Non-emergency, non-black start 4SRB remote stationary RICE >500 HP	No	See Requirement	MHAFB does not have sources that meet this criterion.	N/A
12	Non-emergency, non-black start 4SRB stationary RICE >500 HP that are not remote stationary RICE and that operate more than 24 hours per calendar year	No	See Requirement	MHAFB does not have sources that meet this criterion.	N/A
13	Non-emergency, non-black start stationary RICE which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis	No	See Requirement	MHAFB does not have sources that meet this criterion.	N/A
<b>Table 3</b>	<b>Subsequent Performance Tests</b>	No	N/A	MHAFB is not subject to perform performance testing for emergency engine generators since there are no applicable emission limit requirements.	N/A
<b>Table 4</b>	<b>Requirements for Performance Tests</b>	No	N/A	MHAFB does not have sources that meet this criterion.	N/A
<b>Table 5</b>	<b>Initial Compliance With Emission Limitations and Operating Limitations</b>	No	N/A	MHAFB does not have sources that meet these criteria.	N/A
<b>Table 6</b>	<b>Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices</b>	Yes	N/A	See Sections 1-15 of Table 6	N/A
1	New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; New or reconstructed 2SLB > 500 HP, 4SLB ≥ 250 HP - reduce CO emissions with oxidation catalyst and using CPMS	No	New Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A
2	New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; New or reconstructed 2SLB > 500 HP, 4SLB ≥ 250 HP - reduce CO emissions without oxidation catalyst and using CPMS	No	New Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A
3	Existing non-emergency CI stationary RICE > 500 HP located at a major source of HAP; new or reconstructed 2SLB > 500 HP, 4SLB ≥ 250 HP - reduce CO emissions and using CEMS	No	Ex Non Emer CI > 500 HP	MHAFB is not located at a major source of HAP.	N/A
4 to 6	4SRB located at a major source of HAP	No	N/A	MHAFB is not located at a major source of HAP.	N/A
7	New or reconstructed non-emergency stationary RICE > 500 HP located at a major source; 4SLB - limit formaldehyde concentration with oxidation catalyst or NSCR	No	New Non Emer > 500 HP	MHAFB is not located at a major source of HAP.	N/A
8	New or reconstructed non-emergency stationary RICE > 500 HP located at a major source; 4SLB - limit formaldehyde concentration without oxidation catalyst or NSCR	No	New Non Emer > 500 HP	MHAFB is not located at a major source of HAP.	N/A

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Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>					
					ON BASE GENERATORS			FIRE PUMPS		
					Equip ID	SI/CI	Power (HP)	Equip ID	SI/CI	Power (HP)
9	Existing emergency and black start stationary RICE ≤500 HP located at a major source of HAP, existing non-emergency stationary RICE <100 HP located at a major source of HAP, existing emergency and black start stationary RICE located at an area source of HAP, existing non-emergency stationary CI RICE ≤300 HP located at an area source of HAP, existing non-emergency 2SLB stationary RICE located at an area source of HAP, existing non-emergency landfill or digester gas stationary SI RICE located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE ≤500 HP located at an area source of HAP, existing non-emergency 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate 24 hours or less per calendar year	Yes	Ex Emer ≤ 500 HP Ex Non Emer < 100 HP	The sources listed meet these criteria. MHAFB must demonstrate continuous compliance of work or management practices by: i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or ii. Develop and follow 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.	IC0206	CI	80.4	IC0197.1	CI	305
					IC0517	CI	33.5	IC0197.2	CI	305
					IC1014	CI	33.5	IC0197.3	CI	305
					IC1298	CI	33.5	IC0197.4	CI	305
					IC1302	CI	67.0	IC1347.1	CI	305
					IC1311	CI	13.4	IC1347.2	CI	305
					IC1402	CI	402	IC1347.3	CI	305
					IC1403	CI	201	IC1347.4	CI	305
					IC1413	CI	33.5	<b>FLIGHTLINE BARRIER</b>		
					IC1501	CI	46.9	<b>Equip ID SI/CI Power (HP)</b>		
					IC1819	CI	33.5	ICFB#1	SI	65.9
					IC2103	CI	201	ICFB#2	SI	65.9
					IC2192	CI	670	ICFB#3	SI	65.9
					IC2706	SI	53.6	ICFB#4	SI	65.9
					IC2708	CI	33.5	<b>OFF BASE GENERATORS</b>		
					IC3240	CI	33.5	<b>Equip ID SI/CI Power (HP)</b>		
					IC3491	CI	1608	GR#1	CI	368.5
					IC3502	CI	33.5	GR#2	CI	368.5
					IC3503	CI	33.5	SC#1	CI	80.4
					IC3535	CI	33.5	SC#2	CI	134
					IC3539	CI	33.5	JB#1	CI	167.5
					IC3600	CI	134	JB#2	CI	167.5
					IC4799	CI	33.5	ETI.BC	SI	167.5
					IC4827	CI	670	ETI.BD	SI	167.5
					ICS250	CI	46.9	ETI.BE	SI	167.5
					IC6400	CI	33.5	ETI.BG	SI	167.5
					IC8077	CI	134	ETI.BI	SI	167.5
10	Existing stationary CI RICE > 500 HP that are not limited use stationary RICE: 4SLB and 4SRB > 500 HP - reducing CO or formaldehyde emissions, or limiting CO or formaldehyde concentrations, using oxidation catalyst or NSCR	No	Ex Non Emer > 500 HP	MHAFB does not have sources that meet these criteria.	N/A					
11	Existing stationary CI RICE > 500 HP that are not limited use stationary RICE: 4SLB and 4SRB > 500 HP - reducing CO or formaldehyde emissions, or limiting CO or formaldehyde concentrations, without oxidation catalyst or NSCR	No	Ex Non Emer > 500 HP	MHAFB does not have sources that meet these criteria.	N/A					
12	Existing limited use CI stationary RICE > 500 HP; 4SLB and 4SRB at an area source of HAP that operate more than 24 hours per calendar year - reducing CO or formaldehyde emissions, or limiting CO or formaldehyde concentrations, with oxidation catalyst or NSCR	No	N/A	MHAFB does not have sources that meet these criteria.	N/A					
13	Existing limited use CI stationary RICE > 500 HP; 4SLB and 4SRB at an area source of HAP that operate more than 24 hours per calendar year - reducing CO or formaldehyde emissions, or limiting CO or formaldehyde concentrations, without oxidation catalyst or NSCR	No	N/A	MHAFB does not have sources that meet these criteria.	N/A					
Table 7	Requirements for Reports	No	Ex Non Emer 100sHP≤500 Ex Non Emer CI > 500 HP New Non Emer > 500 HP	There are no applicable requirements in Table 7 that apply to MHAFB emergency engine generators.	N/A					
Table 8	Applicability of General Provisions to Subpart ZZZZ	Yes	All Stationary RICE	MHAFB has existing RICE and is subject to the General Provisions in Table 8.	All existing Stationary RICE					

Notes:  
1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please refer to 40 CFR 63 Subpart ZZZZ.  
2 Acronyms CI = Compression Ignition  
const = construction  
Emer = Emergency  
Ex = Existing  
HAP = hazardous air pollutants  
HP = horse power  
ID = identification

40 CFR Part 63 Subpart ZZZZ Regulatory Analysis  
Mountain Home Air Force Base, Idaho

Sections	Requirement <sup>1</sup>	Applicable	Engine Category <sup>2</sup>	Explanation <sup>2</sup>	Equipment ID <sup>2,3</sup>
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LU = Limited Use  
 MHAFB = Mountain Home Air Force Base  
 Non Emer = Non-Emergency  
 O&M = operating and maintenance  
 RICE = Reciprocating Internal Combustion Engines  
 SI = Spark Ignition

<sup>3</sup> See attached Table 1: Summary of Stationary RICE for details on Equipment ID

**Appendix B – FRA Form for NESHAP Subpart CCCCCC**



**DEQ AIR QUALITY PROGRAM**  
 1410 N. Hilton, Boise, ID 83706  
 For assistance, call the  
**Air Permit Hotline – 1-877-5PERMIT**

# AIR PERMIT APPLICATION

Revision 6  
 10/7/09

For each box in the table below, CTRL+click on the blue underlined text for instructions and information.

IDENTIFICATION	
1. Company Name:  US Department of Defense	2. Facility Name:  Mountain Home Air Force Base
3. Brief Project Description:      Tier I Operating Permit Renewal	
APPLICABILITY DETERMINATION	
4. List applicable subparts of the New Source Performance Standards (NSPS) ( <a href="#">40 CFR part 60</a> ).  Examples of NSPS affected emissions units include internal combustion engines, boilers, turbines, etc. The applicant must thoroughly review the list of affected emissions units.	List of applicable subpart(s):  <input checked="" type="checkbox"/> Not Applicable
5. List applicable subpart(s) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) found in <a href="#">40 CFR part 61</a> and <a href="#">40 CFR part 63</a> .  Examples of affected emission units include solvent cleaning operations, industrial cooling towers, paint stripping and miscellaneous surface coating. <a href="#">EPA has a web page dedicated to NESHAP</a> that should be useful to applicants.	List of applicable subpart(s): Subpart CCCCCC  <input type="checkbox"/> Not Applicable
6. For each subpart identified above, conduct a complete a regulatory analysis using the instructions and referencing the example provided on the following pages.  <b>Note</b> - Regulatory reviews must be submitted with sufficient detail so that DEQ can verify applicability and document in legal terms why the regulation applies. Regulatory reviews that are submitted with insufficient detail will be determined incomplete.	<input type="checkbox"/> A detailed regulatory review is provided (Follow instructions and example).  <input checked="" type="checkbox"/> DEQ has already been provided a detailed regulatory review. Give a reference to the document including the date.
<p><b>IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT</b></p> <p><i><b>It is emphasized that it is the applicant's responsibility to satisfy all technical and regulatory requirements, and that DEQ will help the applicant understand what those requirements are <u>prior</u> to the application being submitted but that DEQ will not perform the required technical or regulatory analysis on the applicant's behalf.</b></i></p>	

## *40 CFR 63, Subpart CCCCCC—National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities*

**Source:** 73 FR 1945, Jan. 10, 2008, unless otherwise noted.

### **§ 63.11110 What is the purpose of this subpart?**

This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices.

### **§ 63.11111 Am I subject to the requirements in this subpart?**

(a) The affected source to which this subpart applies is each GDF that is located at an area source. The affected source includes each gasoline cargo tank during the delivery of product to a GDF and also includes each storage tank.

(b) If your GDF has a monthly throughput of less than 10,000 gallons of gasoline, you must comply with the requirements in §63.11116.

**The Military Service Station is a GDF located on MHAFB with monthly throughput less than 10,000 gallons per month.**

(c) If your GDF has a monthly throughput of 10,000 gallons of gasoline or more, you must comply with the requirements in §63.11117.

(d) If your GDF has a monthly throughput of 100,000 gallons of gasoline or more, you must comply with the requirements in §63.11118.

(e) An affected source shall, upon request by the Administrator, demonstrate that their monthly throughput is less than the 10,000-gallon or the 100,000-gallon threshold level, as applicable. For new or reconstructed affected sources, as specified in §63.11112(b) and (c), recordkeeping to document monthly throughput must begin upon startup of the affected source. For existing sources, as specified in §63.11112(d), recordkeeping to document monthly throughput must begin on January 10, 2008. For existing sources that are subject to this subpart only because they load gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, recordkeeping to document monthly throughput must begin on January 24, 2011. Records required under this paragraph shall be kept for a period of 5 years.

**The POL yard maintains loading and unloading racks to load gasoline into fuel storage tanks not to dispense into vehicles of any type. Therefore, the POL yard shall start documenting receipts of gasoline loaded into fuel storage tanks beginning on January 24, 2011.**

(f) If you are an owner or operator of affected sources, as defined in paragraph (a) of this section, you are not required to obtain a permit under 40 CFR part 70 or 40 CFR part 71 as a result of being subject to this subpart. However, you must still apply for and obtain a permit under 40 CFR part 70 or 40 CFR part 71 if you meet one or more of the applicability criteria found in 40 CFR 70.3(a) and (b) or 40 CFR 71.3(a) and (b).

(g) The loading of aviation gasoline into storage tanks at airports, and the subsequent transfer of aviation gasoline within the airport, is not subject to this subpart.

(h) Monthly throughput is the total volume of gasoline loaded into, or dispensed from, all the gasoline storage tanks located at a single affected GDF. If an area source has two or more GDF at separate locations within the area source, each GDF is treated as a separate affected source.

(i) If your affected source's throughput ever exceeds an applicable throughput threshold, the affected source will remain subject to the requirements for sources above the threshold, even if the affected source throughput later falls below the applicable throughput threshold.

(j) The dispensing of gasoline from a fixed gasoline storage tank at a GDF into a portable gasoline tank for the on-site delivery and subsequent dispensing of the gasoline into the fuel tank of a motor vehicle or other gasoline-fueled engine or equipment used within the area source is only subject to §63.11116 of this subpart.

(k) For any affected source subject to the provisions of this subpart and another Federal rule, you may elect to comply only with the more stringent provisions of the applicable subparts. You must consider all provisions of the rules, including monitoring, recordkeeping, and reporting. You must identify the affected source and provisions with which you will comply in your Notification of Compliance Status required under §63.11124. You also must demonstrate in your Notification of Compliance Status that each provision with which you will comply is at least as stringent as the otherwise applicable requirements in this subpart. You are responsible for making accurate determinations concerning the more stringent provisions, and noncompliance with this rule is not excused if it is later determined that your determination was in error, and, as a result, you are violating this subpart. Compliance with this rule is your responsibility and the Notification of Compliance Status does not alter or affect that responsibility.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4181, Jan. 24, 2011]

### **§ 63.11112 What parts of my affected source does this subpart cover?**

(a) The emission sources to which this subpart applies are gasoline storage tanks and associated equipment components in vapor or liquid gasoline service at new, reconstructed, or existing GDF that meet the criteria specified in §63.11111. Pressure/Vacuum vents on gasoline storage tanks and the equipment necessary to unload product from cargo tanks into the storage tanks at GDF are covered emission sources. The equipment used for the refueling of motor vehicles is not covered by this subpart.

(b) An affected source is a new affected source if you commenced construction on the affected source after November 9, 2006, and you meet the applicability criteria in §63.11111 at the time you commenced operation.

(c) An affected source is reconstructed if you meet the criteria for reconstruction as defined in §63.2.

(d) An affected source is an existing affected source if it is not new or reconstructed.

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

(a) If you have a new or reconstructed affected source, you must comply with this subpart according to paragraphs (a)(1) and (2) of this section, except as specified in paragraph (d) of this section.

(1) If you start up your affected source before January 10, 2008, you must comply with the standards in this subpart no later than January 10, 2008.

(2) If you start up your affected source after January 10, 2008, you must comply with the standards in this subpart upon startup of your affected source.

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

**The Military Service Station is an existing affected source.**

(c) If you have an existing affected source that becomes subject to the control requirements in this subpart because of an increase in the monthly throughput, as specified in §63.11111(c) or §63.11111(d), you must comply with the standards in this subpart no later than 3 years after the affected source becomes subject to the control requirements in this subpart.

(d) If you have a new or reconstructed affected source and you are complying with Table 1 to this subpart, you must comply according to paragraphs (d)(1) and (2) of this section.

(1) If you start up your affected source from November 9, 2006 to September 23, 2008, you must comply no later than September 23, 2008.

(2) If you start up your affected source after September 23, 2008, you must comply upon startup of your affected source.

(e) The initial compliance demonstration test required under §63.11120(a)(1) and (2) must be conducted as specified in paragraphs (e)(1) and (2) of this section.

(1) If you have a new or reconstructed affected source, you must conduct the initial compliance test upon installation of the complete vapor balance system.

(2) If you have an existing affected source, you must conduct the initial compliance test as specified in paragraphs (e)(2)(i) or (e)(2)(ii) of this section.

(i) For vapor balance systems installed on or before December 15, 2009, you must test no later than 180 days after the applicable compliance date specified in paragraphs (b) or (c) of this section.

(ii) For vapor balance systems installed after December 15, 2009, you must test upon installation of the complete vapor balance system.

(f) If your GDF is subject to the control requirements in this subpart only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, you must comply with the standards in this subpart as specified in paragraphs (f)(1) or (f)(2) of this section.

(1) If your GDF is an existing facility, you must comply by January 24, 2014.

(2) If your GDF is a new or reconstructed facility, you must comply by the dates specified in paragraphs (f)(2)(i) and (ii) of this section.

(i) If you start up your GDF after December 15, 2009, but before January 24, 2011, you must comply no later than January 24, 2011.

(ii) If you start up your GDF after January 24, 2011, you must comply upon startup of your GDF.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 35944, June 25, 2008; 76 FR 4181, Jan. 24, 2011]

## **Emission Limitations and Management Practices**

### **§ 63.11115 What are my general duties to minimize emissions?**

Each owner or operator of an affected source under this subpart must comply with the requirements of paragraphs (a) and (b) of this section.

(a) You must, at all times, 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. 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.

(b) You must keep applicable records and submit reports as specified in §63.11125(d) and §63.11126(b).

[76 FR 4182, Jan. 24, 2011]

**§ 63.11116 Requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline.**

(a) 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.

(b) You are not required to submit notifications or reports as specified in §63.11125, §63.11126, or subpart A of this part, but you must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(c) You must comply with the requirements of this subpart by the applicable dates specified in §63.11113.

**Requirements of this underlined subpart apply specifically to the Military Service Station.**

(d) Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this section.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4182, Jan. 24, 2011]

**§ 63.11117 Requirements for facilities with monthly throughput of 10,000 gallons of gasoline or more.**

(a) You must comply with the requirements in section §63.11116(a).

(b) Except as specified in paragraph (c) of this section, you must only load gasoline into storage tanks at your facility by utilizing submerged filling, as defined in §63.11132, and as specified in paragraphs (b)(1), (b)(2), or (b)(3) of this section. The applicable distances in paragraphs (b)(1) and (2) shall be measured from the point in the opening of the submerged fill pipe that is the greatest distance from the bottom of the storage tank.

(1) Submerged fill pipes installed on or before November 9, 2006, must be no more than 12 inches from the bottom of the tank.

(2) Submerged fill pipes installed after November 9, 2006, must be no more than 6 inches from the bottom of the 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 demonstration must be made available for inspection by the Administrator's delegated representative during the course of a site visit.

(c) Gasoline storage tanks with a capacity of less than 250 gallons are not required to comply with the submerged fill requirements in paragraph (b) of this section, but must comply only with all of the requirements in §63.11116.

(d) You must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

(e) You must submit the applicable notifications as required under §63.11124(a).

(f) You must comply with the requirements of this subpart by the applicable dates contained in §63.11113.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008; 76 FR 4182, Jan. 24, 2011]

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

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

(b) Except as provided in paragraph (c) of this section, you must meet the requirements in 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 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.

(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.

(c) The emission sources listed in paragraphs (c)(1) through (3) of this section are not required to comply with the control requirements in paragraph (b) of this section, but must comply with the requirements in §63.11117.

(1) Gasoline storage tanks with a capacity of less than 250 gallons that are constructed after January 10, 2008.

(2) Gasoline storage tanks with a capacity of less than 2,000 gallons that were constructed before January 10, 2008.

(3) Gasoline storage tanks equipped with floating roofs, or the equivalent.

(d) Cargo tanks unloading at GDF must comply with the management practices in Table 2 to this subpart.

(e) You must comply with the applicable testing requirements contained in §63.11120.

(f) You must submit the applicable notifications as required under §63.11124.

(g) You must keep records and submit reports as specified in §§63.11125 and 63.11126.

(h) You must comply with the requirements of this subpart by the applicable dates contained in §63.11113.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008]

## Testing and Monitoring Requirements

### § 63.11120 What testing and monitoring requirements must I meet?

(a) Each owner or operator, at the time of installation, as specified in §63.11113(e), 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.

(1) You must demonstrate compliance with the leak rate and cracking pressure requirements, specified in item 1(g) of Table 1 to this subpart, for pressure-vacuum vent valves installed on your gasoline storage tanks using the test methods identified in paragraph (a)(1)(i) or paragraph (a)(1)(ii) of this section.

(i) California Air Resources Board Vapor Recovery Test Procedure TP–201.1E,—Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves, adopted October 8, 2003 (incorporated by reference, see §63.14).

(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in §63.7(f).

(2) You must demonstrate compliance with the static pressure performance requirement specified in item 1(h) of Table 1 to this subpart for your vapor balance system by conducting a static pressure test on your gasoline storage tanks using the test methods identified in paragraphs (a)(2)(i), (a)(2)(ii), or (a)(2)(iii) of this section.

(i) California Air Resources Board Vapor Recovery Test Procedure TP–201.3,—Determination of 2-Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities, adopted April 12, 1996, and amended March 17, 1999 (incorporated by reference, see §63.14).

(ii) Use alternative test methods and procedures in accordance with the alternative test method requirements in §63.7(f).

(iii) Bay Area Air Quality Management District Source Test Procedure ST–30—Static Pressure Integrity Test—Underground Storage Tanks, adopted November 30, 1983, and amended December 21, 1994 (incorporated by reference, see §63.14).

(b) Each owner or operator choosing, under the provisions of §63.6(g), to use a vapor balance system other than that described in Table 1 to this subpart must demonstrate to the Administrator or delegated authority under paragraph §63.11131(a) of this subpart, the equivalency of their vapor balance system to that described in Table 1 to this subpart using the procedures specified in paragraphs (b)(1) through (3) of this section.

(1) You must demonstrate initial compliance by conducting an initial performance test on the vapor balance system to demonstrate that the vapor balance system achieves 95 percent reduction using the California Air Resources Board Vapor Recovery Test Procedure TP–201.1,—Volumetric Efficiency for Phase I Vapor Recovery Systems, adopted April 12, 1996, and amended February 1, 2001, and October 8, 2003, (incorporated by reference, see §63.14).

(2) You must, during the initial performance test required under paragraph (b)(1) of this section, determine and document alternative acceptable values for the leak rate and cracking pressure requirements specified in item 1(g) of Table 1 to this subpart and for the static pressure performance requirement in item 1(h) of Table 1 to this subpart.

(3) You must comply with the testing requirements specified in paragraph (a) of this section.

(c) Conduct of performance tests. Performance tests conducted for this subpart shall be conducted under such conditions as the Administrator specifies to the owner or operator based on representative performance ( *i.e.*, performance based on normal operating conditions) of the affected source. Upon request, the owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of performance tests.

(d) Owners and operators of gasoline cargo tanks subject to the provisions of Table 2 to this subpart must conduct annual certification testing according to the vapor tightness testing requirements found in §63.11092(f).

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4182, Jan. 24, 2011]

## Notifications, Records, and Reports

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

(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) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or at the time you become subject to the control requirements in §63.11117, unless you meet the requirements in paragraph (a)(3) of this section. If your affected source is subject to the control requirements in §63.11117 only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, you must submit the Initial Notification by May 24, 2011. The Initial Notification must contain the information specified in paragraphs (a)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional Office and delegated State authority as specified in §63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of §63.11117 that apply to you.

**The POL Yard is not subject to the control requirements in §63.11117 because it receives less than 10,000 gallons of gasoline per month.**

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in §63.13, within 60 days of the applicable compliance date specified in §63.11113, unless you meet the requirements in paragraph (a)(3) of this section. The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of this subpart, and must indicate whether the facilities' monthly throughput is calculated based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (a)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (a)(1) of this section.

(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.

(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) You must submit an Initial Notification that you are subject to this subpart by May 9, 2008, or at the time you become subject to the control requirements in §63.11118. If your affected source is subject to the control requirements in §63.11118 only because it loads gasoline into fuel tanks other than those in motor vehicles, as defined in §63.11132, you must submit the Initial Notification by May 24, 2011. The Initial Notification must contain the information specified in paragraphs (b)(1)(i) through (iii) of this section. The notification must be submitted to the applicable EPA Regional Office and delegated State authority as specified in §63.13.

(i) The name and address of the owner and the operator.

(ii) The address (i.e., physical location) of the GDF.

(iii) A statement that the notification is being submitted in response to this subpart and identifying the requirements in paragraphs (a) through (c) of §63.11118 that apply to you.

(2) You must submit a Notification of Compliance Status to the applicable EPA Regional Office and the delegated State authority, as specified in §63.13, in accordance with the schedule specified in §63.9(h). The Notification of Compliance Status must be signed by a responsible official who must certify its accuracy, must indicate whether the source has complied with the requirements of this subpart, and must indicate whether the facility's throughput is determined based on the volume of gasoline loaded into all storage tanks or on the volume of gasoline dispensed from all storage tanks. If your facility is in compliance with the requirements of this subpart at the time the Initial Notification required under paragraph (b)(1) of this section is due, the Notification of Compliance Status may be submitted in lieu of the Initial Notification provided it contains the information required under paragraph (b)(1) of this section.

(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.

(4) You must submit a Notification of Performance Test, as specified in §63.9(e), prior to initiating testing required by §63.11120(a) and (b).

(5) You must submit additional notifications specified in §63.9, as applicable.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 12276, Mar. 7, 2008; 76 FR 4182, Jan. 24, 2011]

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

(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).

(b) Records required under paragraph (a) of this section shall be kept for a period of 5 years and shall be made available for inspection by the Administrator's delegated representatives during the course of a site visit.

(c) Each owner or operator of a gasoline cargo tank subject to the management practices in Table 2 to this subpart must keep records documenting vapor tightness testing for a period of 5 years. Documentation must include each of the items specified in §63.11094(b)(2)(i) through (viii). Records of vapor tightness testing must be retained as specified in either paragraph (c)(1) or paragraph (c)(2) of this section.

(1) The owner or operator must keep all vapor tightness testing records with the cargo tank.

(2) As an alternative to keeping all records with the cargo tank, the owner or operator may comply with the requirements of paragraphs (c)(2)(i) and (ii) of this section.

(i) The owner or operator may keep records of only the most recent vapor tightness test with the cargo tank, and keep records for the previous 4 years at their office or another central location.

(ii) Vapor tightness testing records that are kept at a location other than with the cargo tank must be instantly available (e.g., via e-mail or facsimile) to the Administrator's delegated representative during the course of a site visit or within a

mutually agreeable time frame. Such records must be an exact duplicate image of the original paper copy record with certifying signatures.

(d) Each owner or operator of an affected source under this subpart shall keep records as specified in paragraphs (d)(1) and (2) of this section.

(1) Records of the occurrence and duration of each malfunction of operation ( *i.e.*, process equipment) or the air pollution control and monitoring equipment.

(2) Records of actions taken during periods of malfunction to minimize emissions in accordance with §63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4183, Jan. 24, 2011]

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

(a) 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.

(b) Each owner or operator of an affected source under this subpart shall report, by March 15 of each year, the number, duration, and a brief description of each type of malfunction which occurred during the previous calendar year 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 §63.11115(a), including actions taken to correct a malfunction. No report is necessary for a calendar year in which no malfunctions occurred.

[76 FR 4183, Jan. 24, 2011]

### **Other Requirements and Information**

#### **§ 63.11130 What parts of the General Provisions apply to me?**

Table 3 to this subpart shows which parts of the General Provisions apply to you.

#### **§ 63.11131 Who implements and enforces this subpart?**

(a) This subpart can be implemented and enforced by the U.S. EPA or a delegated authority such as the applicable State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to a State, local, or tribal agency, then that agency, in addition to the U.S. EPA, has the authority to implement and enforce this subpart. Contact the applicable U.S. EPA Regional Office to find out if implementation and enforcement of this subpart is delegated to a State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under subpart E of this part, the authorities contained in paragraph (c) of this section are retained by the Administrator of U.S. EPA and cannot be transferred to the State, local, or tribal agency.

(c) The authorities that cannot be delegated to State, local, or tribal agencies are as specified in paragraphs (c)(1) through (3) of this section.

(1) Approval of alternatives to the requirements in §§63.11116 through 63.11118 and 63.11120.

(2) Approval of major alternatives to test methods under §63.7(e)(2)(ii) and (f), as defined in §63.90, and as required in this subpart.

(3) Approval of major alternatives to recordkeeping and reporting under §63.10(f), as defined in §63.90, and as required in this subpart.

### **§ 63.11132 What definitions apply to this subpart?**

As used in this subpart, all terms not defined herein shall have the meaning given them in the Clean Air Act (CAA), or in subparts A and BBBB of this part. For purposes of this subpart, definitions in this section supersede definitions in other parts or subparts.

*Dual-point vapor balance system* means a type of vapor balance system in which the storage tank is equipped with an entry port for a gasoline fill pipe and a separate exit port for a vapor connection.

*Gasoline* means any petroleum distillate or petroleum distillate/alcohol blend having a Reid vapor pressure of 27.6 kilopascals or greater, which is used as a fuel for internal combustion engines.

*Gasoline cargo tank* means a delivery tank truck or railcar which is loading or unloading gasoline, or which has loaded or unloaded gasoline on the immediately previous load.

*Gasoline dispensing facility (GDF)* means any stationary facility which dispenses gasoline into the fuel tank of a motor vehicle, motor vehicle engine, nonroad vehicle, or nonroad engine, including a nonroad vehicle or nonroad engine used solely for competition. These facilities include, but are not limited to, facilities that dispense gasoline into on- and off-road, street, or highway motor vehicles, lawn equipment, boats, test engines, landscaping equipment, generators, pumps, and other gasoline-fueled engines and equipment.

*Monthly throughput* means the total volume of gasoline that is loaded into, or dispensed from, all gasoline storage tanks at each GDF during a month. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the current day, plus the total volume of gasoline loaded into, or dispensed from, all gasoline storage tanks at each GDF during the previous 364 days, and then dividing that sum by 12.

*Motor vehicle* means any self-propelled vehicle designed for transporting persons or property on a street or highway.

*Nonroad engine* means an internal combustion engine (including the fuel system) that is not used in a motor vehicle or a vehicle used solely for competition, or that is not subject to standards promulgated under section 7411 of this title or section 7521 of this title.

*Nonroad vehicle* means a vehicle that is powered by a nonroad engine, and that is not a motor vehicle or a vehicle used solely for competition.

*Submerged filling* means, for the purposes of this subpart, the filling of a gasoline storage tank through a submerged fill pipe whose discharge is no more than the applicable distance specified in §63.11117(b) from the bottom of the tank. Bottom filling of gasoline storage tanks is included in this definition.

*Vapor balance system* means a combination of pipes and hoses that create a closed system between the vapor spaces of an unloading gasoline cargo tank and a receiving storage tank such that vapors displaced from the storage tank are transferred to the gasoline cargo tank being unloaded.

*Vapor-tight* means equipment that allows no loss of vapors. Compliance with vapor-tight requirements can be determined by checking to ensure that the concentration at a potential leak source is not equal to or greater than 100 percent of the Lower Explosive Limit when measured with a combustible gas detector, calibrated with propane, at a distance of 1 inch from the source.

*Vapor-tight gasoline cargo tank* means a gasoline cargo tank which has demonstrated within the 12 preceding months that it meets the annual certification test requirements in §63.11092(f) of this part.

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4183, Jan. 24, 2011]

**Table 1 to Subpart CCCCCC of Part 63—Applicability Criteria and Management Practices for Gasoline Dispensing Facilities With Monthly Throughput of 100,000 Gallons of Gasoline or More<sup>1</sup>**

If you own or operate	Then you must
1. A new, reconstructed, or existing GDF subject to §63.11118	<p>Install and operate a vapor balance system on your gasoline storage tanks that meets the design criteria in paragraphs (a) through (h).</p> <p>(a) All vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnect.</p> <p>(b) The vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor-tight, as defined in §63.11132.</p> <p>(c) The vapor balance system shall be designed such that the pressure in the tank truck does not exceed 18 inches water pressure or 5.9 inches water vacuum during product transfer.</p> <p>(d) The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations.</p> <p>(e) If a gauge well separate from the fill tube is used, it shall be provided with a submerged drop tube that extends the same distance from the bottom of the storage tank as specified in §63.11117(b).</p> <p>(f) Liquid fill connections for all systems shall be equipped with vapor-tight caps.</p> <p>(g) Pressure/vacuum (PV) vent valves shall be installed on the storage tank vent pipes. The pressure specifications for PV vent valves shall be: a positive pressure setting of 2.5 to 6.0 inches of water and a negative pressure setting of 6.0 to 10.0 inches of water. The total leak rate of all PV vent valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.</p> <p>(h) The vapor balance system shall be capable of meeting the static pressure performance requirement of the following equation:</p> $P_f = 2e^{-500.887/v}$ <p>Where:</p> <p>P<sub>f</sub> = Minimum allowable final pressure, inches of water.</p> <p>v = Total ullage affected by the test, gallons.</p> <p>e = Dimensionless constant equal to approximately 2.718.</p> <p>2 = The initial pressure, inches water.</p>
2. A new or reconstructed GDF, or any storage tank(s) constructed after November 9, 2006, at an existing affected facility subject to §63.11118	Equip your gasoline storage tanks with a dual-point vapor balance system, as defined in §63.11132, and comply with the requirements of item 1 in this Table.

<sup>1</sup>The management practices specified in this Table are not applicable if you are complying with the requirements in §63.11118(b)(2), except that if you are complying with the requirements in §63.11118(b)(2)(i)(B), you must operate using management practices at least as stringent as those listed in this Table.

[73 FR 1945, Jan. 10, 2008, as amended at 73 FR 35944, June 25, 2008; 76 FR 4184, Jan. 24, 2011]

**Table 2 to Subpart CCCCC 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**

If you own or operate	Then you must
A gasoline cargo tank	Not unload gasoline into a storage tank at a GDF subject to the control requirements in this subpart unless the following conditions are met:
	(i) All hoses in the vapor balance system are properly connected,
	(ii) The adapters or couplers that attach to the vapor 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 with the vapor balance equipment on the GDF storage tank, 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 from vapor-tight gasoline cargo tanks. Documentation that the cargo tank has met the specifications of EPA Method 27 shall be carried with the cargo tank, as specified in §63.11125(c).	

[73 FR 1945, Jan. 10, 2008, as amended at 76 FR 4184, Jan. 24, 2011]

## **Appendix C – Response to Public Comments**

**Response to Public Comments**  
**Submitted During the Public Comment Period**  
**for MHAFB. Tier I Operating Permit No. T1-2012.0062 Proj 61117**  
**AIRS Facility No. 039-00001**

**Response to Comments**

A public comment period was held from February 11, 2015 through March 13, 2015 to let any interested party review and comment on the draft Tier I operating permit prepared by Idaho DEQ for the MHAFB. In accordance with IDAPA 58.01.01.364 (*Rules for the Control of Air Pollution in Idaho*), “all Tier I operating permit proceedings shall provide for public notice and public comment, including offering an opportunity for a hearing, on a draft permit or on a draft denial.” Copies of the draft Tier I operating permit and the statement of basis were made for review at DEQ's State and Boise Regional offices and on DEQ's website in PDF format. An opportunity for a public hearing was provided from February 11, 2015 through February 26, 2015. During this period nobody requested a public hearing. Affected states are defined in IDAPA 58.01.01.008.01 as: “All states whose air quality may be affected by the emissions of the Tier I source and that are contiguous to Idaho or that are within 50 miles of the Tier I source.” No states or any indian reservations are within 50 miles of this Tier I source, and as such, DEQ did not provide a copy of the public comment package for any states or indian reservations for their review and comment.

The only party that provided comments during the public comment period or hearing was MHAFB. This document provides DEQ's response to the comments submitted. Comments are given then DEQ's response immediately follows.

**MHAFB Tier I OP:**

**Facility Comment # 1**

The three stationary non-emergency generators listed in section 2.25 are located at Emitter Sites which are not a part of Mountain Home AFB as defined by "facility" in IDAPA 58.01.01.006.40. The generators are in the same industrial grouping, and they have common ownership or control. However, they are not located on one or more contiguous or adjacent properties. These three generators should not be included in the Tier I permit.

**DEQ Response #1:**

DEQ revised the permit to reflect this comment. DEQ deleted Permit Condition 2.25 from the draft operating permit. In accordance with IDAPA 58.01.01.006.40 (*Rules for the Control of Air Pollution in Idaho*) a facility is defined as “All of the pollutant-emitting activities which belong to the same industrial grouping, are located on one (1) or more contiguous or adjacent properties, and are under the control of the same person (or persons under common control). Pollutant-emitting activities shall be considered as part of the same industrial grouping if they belong to the same Major Group (i.e. which have the same two-digit code) as described in the Standard Industrial Classification Manual. The fugitive emissions shall not be considered in determining whether a permit is required unless required by federal law.” The generator engines (two with rated capacities at 134 HP and one at 80.4 HP) in Permit Condition 2.25 are in the same industrial grouping, and they have common ownership or control. However, they are not located on one or more contiguous or adjacent properties. The Saylor Creek Range, Juniper Buttee Range, and the Mountain Home Training Complex Sites which include Grasmere and Emitter Sites are all properties separated by various distances ranging from approximately 30 to 60 miles distance from MHAFB.

Therefore, DEQ removed these emissions units from the Tier I operating permit. However, the permittee is required to make an applicability determination to either obtain from DEQ a PTC or an exemption from a PTC for the generator engines.