# Statement of Basis

## Tier I Operating Permit No. T1-2009.0148

## Final

## Idaho National Laboratory

## Scoville, Idaho

## Facility ID No. 023-00001, 011-00022

## February 1, 2013


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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

# Table of Contents

ACRONYMS, UNITS AND CHEMICAL NOMENCLATURE ..... 3

1. INTRODUCTION AND APPLICABILITY ..... 7

2. FACILITY INFORMATION ..... 8

3. APPLICATION SCOPE AND APPLICATION CHRONOLOGY ..... 9

4. EMISSIONS UNITS, PROCESS DESCRIPTION(S), AND EMISSIONS INVENTORY ..... 10

5. EMISSIONS LIMITS AND MRRR ..... 19

6. REGULATORY REVIEW ..... 47

7. PUBLIC COMMENT ..... 49

8. EPA REVIEW OF PROPOSED PERMIT ..... 50

APPENDIX A – GRAIN LOADING CALCULATIONS

APPENDIX B – UNDERLYING PERMIT HISTORY

APPENDIX C – FRA FORM for SUBPART ZZZZ PART 63

APPENDIX D – FRA FORM FOR SUBPART IIII PART 60

APPENDIX E – INSIGNIFICANT ACTIVITIES

APPENDIX F – RESPONSE TO PUBLIC COMMENTS

# Acronyms, Units and Chemical Nomenclature

| | |
|---|---|
| A1W | Large Ship Reactor |
| acfm | actual cubic feet per minute |
| AEC | Atomic Energy Commission |
| AFS | AIRS Facility Subsystem |
| AIRS | Aerometric Information Retrieval System |
| AMWTF | Advanced Mixed Waste Treatment Facility |
| AMWTP | Advanced Mixed Waste Treatment Project |
| ANL-W | Argonne National Laboratory – West |
| AP-42 | Compilation of Air Pollutant Emissions Factors, Volume I: Stationary Point and Area Sources |
| AQCR | Air Quality Control Region |
| ASTM | American Society for Testing and Materials |
| ATR | Advanced Test Reactor |
| Bhp | brake horsepower |
| BNFL | British Nuclear Fuels, Inc |
| Btu | British Thermal Unit |
| CAA | Clean Air Act |
| CCR | Carbon Reduction Reformer |
| CFA | Central Facilities Area |
| CEMS | continuous emissions monitoring system |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |
| Ci | Curie |
| CI | compression ignition |
| CITRC | Critical Infrastructure Test Range Complex |
| Ci/mo | Curies per month |
| Ci/yr | Curie Per Year |
| cm | centimeter |
| $cm^2$ | square centimeter |
| $CO_2e$ | Carbon dioxide equivalent |
| CO | carbon monoxide |
| COMS | continuous opacity monitoring system |
| CPP | Chemical Processing Plant (now known as INTEC) |
| DEQ | Idaho Department of Environmental Quality |
| DMR | Denitration and Mineralizer Reformer |
| DOE | United States of America Department of Energy |
| DOE-ID | DOE Idaho Operations Office |
| dpm | disintegrations per minute |
| dscf | dry standard cubic feet |
| dscfm | dry standard cubic feet per minute |
| DU | depleted uranium |
| ECF | Expended Core Facility |

| | |
|---|---|
| EF | emissions factor |
| EPA | United States Environmental Protection Agency |
| ERM | effluent radiation monitor |
| et seq. | and the following one(s) |
| FRA | Federal Requirements Applicability |
| FGR | flue gas recirculator |
| $ft^3$ | cubic foot |
| gal | gallon |
| gal/day | gallons/day |
| gal/hr | gallons/hour |
| gal/month | gallons/month |
| gal/yr | gallons/year |
| gpm | gallons per minute |
| gr | grain (1 lb = 7,000 grains) |
| GHG | greenhouse gas |
| HAPs | hazardous air pollutants |
| HCRW | hazardous chemical and radioactive waste |
| HEPA | high efficiency particulate air |
| hp | horsepower |
| HP | horsepower |
| hr | hour |
| hrs | hours |
| ICPP | Idaho Chemical Processing Plant (now known as INTEC) |
| IDAPA | Idaho Administrative Procedures Act |
| INEEL | Idaho National Engineering and Environmental Laboratory |
| INL | Idaho National Laboratory |
| INTEC | Idaho Nuclear Technology and Engineering Center |
| IWTU | Integrated Waste Treatment Unit |
| JP-4 | Jet Propulsion 4 |
| JP-8 | Jet Propulsion 8 |
| km | kilometer |
| lb | pound |
| lb/hr | pound Per Hour |
| lbs | pounds |
| LLW | low level waste |
| MACT | Maximum Achievable Control Technology |
| MFC | Materials and Fuels Complex (formerly ANL-W) |
| min | minute |
| MMBtu | million British thermal units |
| mrem | millirem (one thousandth of a roentgen equivalent man) |
| mrem/yr | millirem per year |
| MRRR | monitoring, recordkeeping and reporting requirements |
| MTRS | Materials Test Reactor Stack |

| | |
|---|---|
| NAAQS | National Ambient Air Quality Standards |
| NAICS | North American Industry Classification System |
| NESHAP | National Emissions Standards for Hazardous Air Pollutants |
| NGLW | newly generated liquid waste |
| $NO_2$ | nitrogen dioxide |
| $NO_x$ | oxides of nitrogen |
| NRC | Nuclear Regulatory Commission |
| NRF | Naval Reactors Facility |
| NSPS | New Source Performance Standards |
| NWCF | New Waste Calcining Facility |
| $O_2$ | oxygen |
| $O_3$ | ozone |
| O&M | Operations and Maintenance Manual |
| Pb | lead |
| PBF | Power Burst Facility |
| PM | particulate matter |
| $PM_{10}$ | particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers |
| PSD | Prevention of Significant Deterioration |
| psig | pounds per square inch gage |
| PTC | permit to construct |
| PTE | potential to emit |
| PW | process weight |
| RCRA | Resource Conservation and Recovery Act |
| RICE | reciprocating internal combustion engine |
| rpm | revolutions per minute |
| RTC | Reactor Technolgy Complex (formerly TRA) |
| RWMC | Radioactive Waste Management Complex |
| S1W | Submarine Thermal Reactor |
| S5G | Natural Circulation Reactor |
| SBW | sodium bearing waste |
| scfm | standard cubic feet per minute |
| SDA | Subsurface Disposal Area |
| SI | spark ignition |
| SIC | Standard Industrial Classification |
| SIP | State Implementation Plan |
| SMC | Specific Manufacturing Capability Facility |
| $SO_2$ | sulfur dioxide |
| SoB | statement of basis |
| SPERT | Special Power Excursion Reactor Tests |
| SPF | Sodium Processing Facility |
| T | ton |
| T/yr | tons per year |
| TAN | Test Area North |

| | |
|---|---|
| TAP | toxic air pollutant |
| TRA | Test Reactor Area |
| TSA | Transuranic Storage Area |
| TRU | transuranic |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure |
| U.S.C. | United States Code |
| UST | underground storage tank |
| VOC | volatile organic compound |
| WIPP | Waste Isolation Pilot Plant |
| WROC | Waste Reductions Operations Complex (formerly WERF) |
| WWTF | warm waste treatment facility |
| yr | year |
| % | percent |

# 1. INTRODUCTION AND APPLICABILITY

Idaho National Laboratory (INL) is a multipurpose national laboratory, and is located at Hwy. 20/26 between Arco and Idaho Falls, and Hwy. 33 between Mud Lake and Arco. 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 sulfur dioxide ($SO_2$) and oxides of nitrogen ($NO_x$) above the major source threshold of 100 tons-per-year. The INL is also classified as a major facility, as defined by Subsection 008.10.a, because it emits or has the potential to emit 25 tons-per-year for any combination of hazardous air pollutants (HAPs). Additionally, the INL also emits or has the potential to emit over 100,000 tons-per-year of carbon dioxide equivalent ($CO_2e$) of greenhouse gas (GHG) pollutants. As a major facility, INL is required to apply for a Tier I operating permit pursuant to IDAPA 58.01.01.301. The application for a Tier I operating permit must contain a certification from INL as to its compliance status with all applicable requirements (IDAPA 58.01.01.314.09).

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 INL.

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.

Only information that is not of concern to national security has been presented in facility descriptions.

INL Tier I operating permit is organized into sections. They are as follows:

**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.

**Sections 3 through 11 – MFC, CFA, INTEC, CITRC, NRF, TAN, ATR Complex, RWMC, and AMWTP**

The emissions unit-specific sections of the permit contain the applicable requirements that specially 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.

**Non-applicable Requirements and 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. The permittee did not provide information regarding the non-applicable requirements in the application, therefore, a non-applicable requirements section is not included in this permit.

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. The permittee submitted an insignificant activities list of emissions units that requested to be insignificant in accordance with IDAPA 58.01.01.317.01.b. The submitted list is included in Appendix E.

**Section 12 – 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.

# 2. FACILITY INFORMATION

## 2.1 Facility Description

The INL is a multipurpose national laboratory. It consists of nine distinct operational areas within an 890-square-mile area owned by the U.S. Government in southeastern Idaho. The operational areas include the following:

- Materials and Fuels Complex (MFC)
- Central Facilities Area (CFA)
- Idaho Nuclear Technology and Engineering Center (INTEC)
- Critical Infrastructure Test Range Complex (CITRC)
- Naval Reactors Facility (NRF)
- Test Area North (TAN)
- Advanced Test Reactor Complex (ATR Complex)
- Radioactive Waste Management Complex (RWMC)
- Advanced Mixed Waste Treatment Project (AMWTP)

## 2.2 Facility Permitting History

2.2.1 Tier I Operating Permit History –Permit term from June 28, 2005 to public comment, November 15, 2012

The following information is the permitting history of this Tier I facility during the previous five-year permit term which was from June 28, 2005 to November 15, 2012. 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).

| | |
|---|---|
| October 30, 2009 | T1-2009.0114, administrative amendment in accordance with IDAPA 58.01.01.381.01.e. It incorporates into Tier I operating permit the requirements from PTC No. P-2008.0199, issued August 31, 2009 and in accordance with IDAPA 58.01.01.209.05.c, (A, will be S as a result of this project) |
| September 30, 2008 | T1-2008.0144, administrative amendment to change the name of the Reactor Technology Complex (formerly TRA) to Advanced Test Reactor Complex (ATR Complex), (S) |
| June 6, 2008 | T1-060508, administrative amendment for a name change of INEEL to INL, remove reference to individual names in the responsible official list, correct errors in the initial T1 permit, change permit conditions 8.3.8 and 8.3.9 in the initial Tier I operating permit to require monitoring of emissions per calendar |

| | |
|---|---|
| | year instead of per consecutive 12-month consistent with the statement of basis, remove BNFL in permit tables 11.2 and 11.3, and change name of some operational units at the facility (i.e., ANL-W to MFC, WROC to CITRC/PBF, and TRA to RTC), (S) |
| October 23, 2007 | T1-060521, administrative amendment to incorporate two new PTCs into the Tier I operating permit, to remove two PTCs that have been terminated from the Tier I permit, and to correct the T1 conditions to match the requirement in P-060512 for the TSA-RE, (S) |
| January 10, 2007 | T1-060519, administrative amendment to incorporate the following PTCs into the Tier I operating permit: PTC No. P-060518, issued January 10, 2007, and PTCs No. P-060512, issued August 29, 2006, (S) |
| June 28, 2005 | T1-030520, initial Tier I operating permit, (S). |

2.2.2 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). See Appendix B.

# 3. APPLICATION SCOPE AND APPLICATION CHRONOLOGY

## 3.1 Application Scope

- This permit is for the renewal of the facility's currently effective Tier I operating permit No. T1-2009.0114, issued on October 30, 2009.

The INL has requested the following changes to the renewed Tier I operating permit:

- Facility-wide conditions, remove permit condition 2.14, Volatile Organic Liquid Storage Vessels. INL reported in the renewal Tier I operating permit application that the facility does not have tanks that are subject to requirements of 40 CFR Part 60, Subpart Kb.

- MFC facility, in permit conditions 3.1.1 and 3.1.2, remove reference to MFC Boiler No. 2 (Keeler boiler), MFC Boiler No. 3 (Murray boiler), and MFC Boiler No. 4 (Cleaver Brooks boiler) because the boilers are removed from service.

- Removed permit conditions for CFA-609-005 due to the rescission of permit P-2006.0518 on October 23, 2012.

- INTEC- NWCF operations, Nitrogen Oxide Sources, remove reference to permit condition 5.2 in the T1-2009.0114, issued on October 30, 2009. The INL justification for the removal is based on the letter that was dated on December 14, 2004, from Brian Monson, DEQ's Hazardous Waste Program Manager to Tim Safford of U.S. Department of Energy. In the letter the DEQ states the following: "DEQ has determined that the NWCF (Calciner Vessel and Dedicated Ancillary Equipment Closure) has been completed according to the Closure Plan approved on November 19, 2002. As a result of the closure, the NWCF no longer has interim status to operate as a mixed waste facility under IDAPA 58.01.01.05.009 [40 CFR Part 265]." Therefore, DEQ has determined that permit conditions associated with Section 5.2 in permit No. T1-2009.0114 for the NWCF operations are obsolete and are no longer considered applicable requirements for this permit renewal.

- CITRC, Critical Infrastructure Test Range Complex/Power Burst Facility (Formerly WROC). Remove reference to Section 6 of the permit because the Cyclotherm boiler has been removed and the PBF 620 building has been demolished.

- Incorporate the following applicable requirements to the renewed permit, which were not previously included in the initial Tier I operating permit: 40 CFR 63 Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines; 40 CFR 60 Subpart IIII – Standard of Performance for Stationary Compression Ignition Internal Combustion Engines; and PTC No. P-2007.0076, issued on September 12, 2007.

- SMC facility, removed reference to the SMC Refuse Incinerator and other miscellaneous sources as reflected the revised PTC No. P-2011.0092, issued October 18, 2011. Add liquefied petroleum gas or natural gas as a fuel source for the SMC boilers as also reflected in PTC No. P-2011.0092.

## 3.2 Application Chronology

| | |
|---|---|
| • December 23, 2009 | DEQ received an application from INL to renew the facility's effective Tier I operating permit. |
| • February 19, 2010 | DEQ determined the application complete. |
| • March 25, 2010 | DEQ requested from INL to submit additional information. |
| • May 5, 2010 | DEQ and INL met to address the information request letter of March 25, 2010. |
| • May 19, 2010 | DEQ received supplemental information from INL. |
| • June 10, 2010 | INL requested from DEQ to update the insignificant activities (IA) list that was submitted in the renewed Tier I operating permit application. INL requested that the updated IA list be submitted to DEQ on or before July 19, 2010. DEQ approved the request in a letter sent to INL on June 10, 2010. |
| • July 22, 2010 | DEQ provided the draft permit to INL for its review. |
| • July 26, 2010 | DEQ received an updated insignificant activities list from INL |
| • December 17, 2010 | DEQ received the FRA form for MACT Subpart ZZZZ from INL. |
| • July 21, 2011 | DEQ provided a second draft permit and statement of basis for applicant review. |
| • August 25, 2011 | DEQ received comments on the facility's draft permit. |
| • September 12, 2011 | DEQ and INL staff met to discuss the facility draft comments. DEQ staff made a site tour to the INL facility. |
| • July 20, 2012 | DEQ received additional information from INL. |
| • September 28, 2012 | DEQ provided the draft permit and the SoB for peer and regional review. |
| • October 12, 2012 | DEQ provided the draft permit and the SoB for applicant review. |
| • November 15, 2012 | DEQ provided the draft permit and the SoB for public comment and affected states review. |
| • December 19, 2012 | DEQ provided a proposed permit and the SoB for EPA Region 10 review. |
| • January 29, 2013 | EPA notified DEQ that they will not be reviewing the proposed permit action and will not object to its issuance. EPA stated, "The permit is now eligible for issuance." |
| • February 6, 2013 | DEQ issued the final renewed Tier I operating permit to the facility. |

# 4. 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. The insignificant activities based on size or production rate are listed in the permit application.

Several changes have occurred at the facility that resulted in decrease in $NO_x$ emissions compared to the initial Tier I operating permit term. The removal of nitrogen oxide sources at the INTEC and the addition of the IWTU (see Tier I permit section 5.2) at the INL resulted in reduction of $NO_x$ emissions of 1,660.6 T/yr (1700-39.4). Additionally, the removal of the five diesel fired boilers at CFA facility and three distillate oil fired boilers at MFC resulted in $NO_x$ reduction of approximately 42 T/yr.

For details regarding the emissions units, process descriptions, and the emissions inventory for this facility, refer to the operating permit renewal application, received by DEQ on December 23, 2009, and the currently effective Tier I No. T1-2009.0114, issued on October 30, 2009.

Additionally, emission rates from the generator engines existing at the facility and emissions of the greenhouse gases (GHG) for the carbon dioxide and its equivalent ($CO_2e$) were submitted to DEQ on June 20, 2012. Emissions of $CO_2e$ are found at the end of Appendix D of this statement of basis.

## 4.1 Material and Fuels Complex (MFC)

Facility Description:

Material and Fuels Complex (MFC) is located on the southeastern corner of the INL in Bingham County, Idaho. MFC is a research facility that has contributed significantly to knowledge advancements in liquid metal fast breeder reactor technology, extreme condition fuels and reactor materials behavior. While continuing its leadership role in advanced nuclear power research and development, MFC is also involved in spent nuclear fuel and waste treatment technologies, remediation efforts, and projects to support space exploration and national security programs.

**Utility Spray Paint Booth**:

Process Description:

The following is a narrative description of the emissions unit at the utility spray paint booth regulated in this Tier I operating permit. This description is for informational purposes only.

The utility paint booth is a maintenance paint booth and is not used as part of any production line. Items to be painted will vary in both material type and configuration. No radionuclides are emitted.

Table 4.1 lists the emission unit and control device associated with the utility spray paint booth at MFC.

**Table 4.1 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| Utility spray paint booth | Filters with PM control efficiency of at least 87% | Paint booth stack |

## 4.2 Central Facilities Area (CFA)

Facility Description:

The CFA encompasses about 550 acres in the southwestern portion of the INL site. The purpose of CFA is to provide technical and support services to the INL site. These services include environmental monitoring and calibration laboratories, communication systems, security, fire protection, medical services, warehouses, vehicle and equipment pools, the INL landfill complex, hazardous waste storage,

and bus operations.

Administratively, the INL has been divided into a grid system where each grid area is identified as a block area having a unique number. Utility services and areas outside facility fence lines within these block areas are administered by the CFA landlord.

With regard to regulatory analysis for the CFA for this permitting action the only applicable requirements associated with the CFA facility in the renewed Tier I operating permit are the facility-wide requirements. CFA has no active air quality permits.

## 4.3 Idaho Nuclear Technology and Engineering Center (INTEC)

Facility Description:

INTEC, occupying approximately 250 acres, is located in the southwestern portion of the INL.

Major operating facilities at INTEC include hazardous and mixed waste storage and treatment units located at CPP-659, CPP-604, CPP-666, CPP-1617, Calcine Solids Storage facility (Bin Sets), and the Tank Farm. The Tank Farm is currently undergoing closure. A number of facilities at INTEC continue to operate and fulfill the Spent Nuclear Fuel mission at INTEC, including storage and transfer of spent fuel in the fuel storage area at CPP-666, and the dry spent fuel storage vaults in CPP-603 and CPP-749.

INTEC also has responsibility for waste disposition, managing plant utilities and maintenance, materials and supplies, engineering, steam output, and roads and grounds.
The Integrated Waste Treatment Unit, once operational, will treat the remaining Tank Farm sodium-bearing waste (SBW) and newly generated waste liquid waste to produce a solid treatment product for disposal.

Other work at INTEC includes Environmental Remediation, including Tank Farm soils, groundwater monitoring and long-term stewardship.

**Building CPP-606 Distillate Oil-Fired Boilers**

Process Description:

The following is a narrative description of the emissions sources in Building CPP-606 regulated in this Tier I operating permit. This description is for informational purposes only.

Building CPP-606 includes four boilers with a rated capacity of 36.4 MMBtu/hr each. A flue gas recirculator (FGR) on each boiler provides $NO_x$ emissions control. The boilers are subject to NSPS in accordance with 40 CFR 60, Subpart Dc.

Table 4.3 lists the emissions units and control devices associated with building CPP-606 distillate oil-fired boilers.

**Table 4.3 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| Four CPP-606 boilers | $NO_x$ is controlled by FGR on each boiler | CPP-606 boilers stacks |

**Integrated Waste Treatment Unit (IWTU)**

Process Description:

The following is a narrative description of the emissions sources at the Integrated Waste Treatment Unit (IWTU) that are regulated in this Tier I operating permit. This description is for informational purposes only.

The IWTU is designed to treat liquid sodium bearing waste (SBW) and newly generated liquid waste (NGLW) to produce a solid treatment product for ultimate disposal. The IWTU will utilize steam reforming technology which includes a dual fluidized-bed process that uses superheated steam, carbon, and other additives to convert the SBW into a solid, granular treatment product that is packaged into canisters suitable for ultimate disposal. The system is designed to operate with a liquid feed rate that will not exceed 3.5 gallons per minute. The process is named the Integrated Waste Treatment Unit because two fluidized-bed steam reformers, the Denitration and Mineralization Reformer (DMR) and the Carbon Reduction Reformer (CRR), are integrated into a single treatment process with a common air pollution control system. The DMR, CRR and material transfer and loadout systems utilize filters that are integral to the processing system used to capture and package the solid treatment product; these filters are not part of the air pollution control system. The IWTU air pollution control system includes the Process HEPA Filter System (which is located downstream from the DMR and CRR).

Table 4.4 lists the emissions units and control devices associated with IWTU at INTEC.

**Table 4.4 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| IWTU consists of :<br>• Denitration and Mineralization Reformer (DMR), Carbon Reduction Reformer (CRR)<br>• Treatment Product Transfer and Loadout System | Process HEPA Filter System | IWTU stack: 120 ft height; 5 ft exit diameter; 144°F exit temperature, and 59 ft/second estimated exit velocity |

**COM-UTI-616 Backup Air Compressor at INTEC**

Process Description:

The backup air compressor (COM-UTI-616) is rated at 460 horsepower at 1800 rpm and was manufactured in February of 1997. The air compressor supplies filtered air at 115 psig to the compressed air system when electric power is not available to the normal standby air compressors and is located outside CPP-616 in the southeast corner of the CPP-606. It is a portable rotary screw, oil flooded compressor manufactured by Ingersoll-Rand, model number is XP-1400WCU. The compressed air capacity is 1,400 scfm at 115 psig. The backup compressor (COM-UTI-616) is powered by Cummins diesel fueled internal combustion engine.

Table 4.5 lists the emission unit and control device associated with COM-UTI-616 backup air compressor at INTEC.

**Table 4.5 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| COM-UTI-616 Backup Air Compressor | None | Air compressor engine stack |

## 4.4 Critical Infrastructure Test Range Complex (CITRC)

Facility Description:

The CITRC area supports National and Homeland Security missions of the laboratory, including

program and project testing (i.e., critical infrastructure resilience and nonproliferation testing and demonstration). Wireless test-bed operations, power line and grid testing, unmanned aerial vehicle testing, accelerator testing, explosives detection, and training radiological counter-terrorism emergency-response take place at the CITRC area.

With regard to regulatory analysis for the CITRC for this permitting action the only applicable requirements associated with the CITRC facility in the Tier I permit are the facility-wide requirements. CITRC has no active air quality permits.

## 4.5 Naval Reactors Facility (NRF)

Facility Description:

The fenced portion of the Naval Reactors Facility (NRF) covers 84 acres of 4,400 acres under the cognizance of NRF in the west-central part of the INL. Established in 1949, NRF is operated for the U. S. Naval Nuclear Propulsion Program by Bechtel Marine Propulsion Corporation, Bettis Atomic Power Laboratory-Idaho. The principal facilities at NRF are three former naval reactor prototypes (S1W, A1W, and S5G) and the Expended Core Facility (ECF). The S1W, A1W, and S5G prototypes were shut down in October 1989, January 1994, and May 1995, respectively.

Developmental nuclear fuel material samples, naval spent fuel, and irradiated reactor plant components/materials are examined at ECF. The knowledge gained from these examinations is used to improve current designs and to monitor the performance of existing reactors. The naval spent fuel examined at ECF is critical to the design of longer-lived cores, which results in the creation of less spent fuel requiring disposition. NRF is also preparing naval fuel for dry storage and eventual transportation to a repository.

With regard to regulatory analysis for the NRF for this permitting action the only applicable requirements associated with the NRF facility in the Tier I permit are the facility-wide requirements. NRF has no active air quality permits.

## 4.6 Test Area North (TAN)

Facility Description:

Test Area North is in the northern part of the INL site and primarily consists of the Specific Manufacturing Capability (SMC) facility, along with a fire station and vehicle fueling station. A private contractor operates TAN on behalf of DOE-ID.

The SMC is a state-of-the-art research and manufacturing complex. The SMC includes a multiphased manufacturing operation that produces fabricated metal assemblies. Radionuclide emissions from SMC are generally limited to those present in depleted uranium. The SMC project supports two major process areas: (a) TAN 629 Fabrication and Assembly; and (b) TAN 679 Rolling Operations.

It is noted that when DEQ requests classified records, the records shall be made available only to DEQ representatives with appropriate national security clearances and a need to know, in accordance with federal regulations.

The permitted emissions units at TAN are as follows:

**SMC, Fuel Burning Equipment**

Process Description:

The following is a narrative description of the permitted emissions unit at SMC regulated in this Tier I operating permit. This description is for informational purposes only.

Two identical boilers, located in TAN 679, have a rated maximum heat input capacity of 25 MMBtu/hr each and operate as necessary to supply building heat and process steam to SMC fabrication and manufacturing facilities. Another small boiler with a 60-hp rating is normally operated during summer months only. The large boilers are each equipped with oxygen trim sensors to increase combustion efficiency. Combustion gases from each large boiler are exhausted through individually dedicated stacks, TAN 679-067a and TAN 679-068. The small 60-hp boiler vents to the TAN 679-067b stack.

Table 4.9 lists the emission unit and control device associated with SMC, fuel burning equipment at TAN.

**Table 4.9 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| TAN 679-067 a and b (25 MMBtu/hr and 60 hp boilers, respectively | $O_2$ trim sensors to increase combustion efficiency for the 25 MMBtu/r boiler; none for the 60 hp boiler | TAN 679-067a and 067b common stack |
| TAN 679-068 (25 MMBtu/hr boiler) | $O_2$ trim sensors to increase combustion efficiency | TAN 679-068 stack |

**SMC, TAN 629: Phase I - 2B Paint Process**

Process Description:

The 2B Paint Process consists of an automated pressurized air paint spray system and a drying and curing oven. Airborne pollutants generated during the painting/drying operation are vented through stacks TAN 629-012 and TAN 629-014.

Table 4.10 lists the emission unit and control device associated with SMC, 2B paint process at TAN.

**Table 4.10 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| TAN 629-012 and 629-014 | HEPA filters | TAN 629-012 and TAN 629-014 stacks |

## 4.7 Advanced Test Reactor Complex (ATR Complex)

Facility Description:

The ATR Complex is located in the southern part of the INL facility. The ATR complex was originally established in the early 1950s. The functions of the ATR Complex are to provide work area to conduct experiments associated with the development, testing, and analysis of materials used in nuclear and reactor operations, and to support the production and processing of radioisotopes, nonnuclear research and development, and both radiological and nonradiological laboratory analyses.

The Advanced Test Reactor (ATR) is located at the ATR Complex and is designed to study the effects of intense radiation on samples of reactor materials, especially fuels. In addition to the experimental irradiation, the ATR's secondary mission is to produce various isotopes, including about 50% of the iridium and 2% of the cobalt-60 used domestically. The ATR was constructed in 1965 and began operations in 1967.

**ATR Complex – Diesel Powered Generators**

Process Description:

Advanced Test Reactor Complex (ATR Complex) utilizes three electrical generator units (Units 674-M-6, 670-M-42, and 670-M-43) powered by large stationary diesel engines. The primary purpose of the ATR Complex generators is to provide electrical power to the Advanced Test Reactor Complex during normal operations, off-normal operations, and emergency operation.

Table 4.11 lists the emission unit and control device associated with diesel powered generators at ATR Complex.

**Table 4.11 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| Three electrical generator units (units 674-M-6, 670-M-42, and 670-M-43) | None | Units 674-M-6, 670-M-42, and 670-M-43 stacks |

## 4.8 Radioactive Waste Management Complex (RWMC)

Facility Description:

The RWMC disposes of low level waste (LLW) and temporarily stored mixed TRU waste. Disposal of solid radioactive waste began at the RWMC in 1952. In 1953, the AEC decided that solid radioactive waste from the Rocky Flats Plant near Golden, Colorado would be sent to the RWMC. Therefore, starting in 1954, Rocky Flats wastes containing TRU nuclides (principally plutonium) were buried in pits and trenches at the RWMC.

In 1960, the INL was designated as one of two national interim radioactive waste burial grounds. Although waste was received from many sources, the majority of TRU waste was from Rocky Flats. The national burial ground designation was discontinued in 1963 when commercial disposal facilities for radioactive waste became available.

In 1970, the AEC directed that all waste contaminated with TRU isotopes be segregated from other types of radioactive waste. This was because of the radiotoxicity and long half-lives of the TRU material. The TRU waste was to be stored in a readily retrievable manner during a 20-year interim storage period. When a federal repository became available, this waste was to be retrieved and sent there for long-term isolation. The DOE adopted an aboveground storage method at the TSA of the RWMC to meet the interim storage requirement. Although newly generated TRU mixed waste may still be accepted for storage, very little has been accepted since 1990; remote-handled LLW continues to be accepted for permanent disposal.

With regard to regulatory analysis for the RWMC for this permitting action the only applicable requirements associated with the RWMC facility in the Tier I permit are the facility-wide requirements. RWMC has no active air quality permits. Other operations within the boundaries of RWMC that are regulated by existing permits are the AMWTP and the TSA-RE. Please refer to the AMWTP section of this memo for more information.

## 4.9 Advanced Mixed Waste Treatment Project (AMWTP)

Facility Description:

The AMWTP is underway in response to the 1995 Settlement Agreement between the state of Idaho and the DOE. The settlement agreement directed DOE to ship the currently estimated 65,000 $m^3$ of TRU

waste now located at INL to the Waste Isolation Pilot Plant (WIPP) or other such facility designated by DOE, by a target date of December 31, 2015, but no later than December 31, 2018. Much of this waste requires treatment before it will be accepted for disposal at the WIPP in New Mexico. DOE contracted with BNFL, Inc. to construct the AMWTP to treat the waste so it will be accepted at WIPP.

The AMWTP will treat mixed waste, TRU waste and alpha-emitting mixed low-level waste. The project includes:

- retrieving stored waste;
- characterizing the waste for storage, treatment, or disposal;
- storing the waste in preparation for treatment or pretreatment (as required);
- pretreating and/or treating the waste in the AMWTF (if necessary); and
- certifying the waste for shipment to WIPP or another waste management unit.

The overall AMWTP includes the AMWTF and the TSA-RE. The AMWTF is specific to the treatment building, along with other buildings and associated activities. The AMWTF is located at the RWMC on the southern portion of the 56-acre TSA. The waste that requires retrieval is located in the TSA-RE just west of the AMWTF. The TSA-RE encloses asphalt pads which support primarily earthen-covered stacks of retrievably stored mixed waste.

## TSA-RE

Process Description:

As required by the PTC, the INL will limit the $NO_x$ emissions from the mobile equipment used to move soil and retrieve waste within the TSA-RE. The $NO_x$ limit does not apply to dump trucks, tugs, yard cranes, and other equipment that enters the TSA-RE to move soil or waste. Each applicable PTC condition is listed in this renewal Tier I operating permit.

Table 4.12 lists the emission unit and control device associated with TSA-RE at AMWTP.

**Table 4.12 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION**

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| Aggregate emissions from the mobile equipment that operates within the TSA-RE (in accordance with Permit Condition 11.1 | None | Source vents |
| Propane heater | None | Propane heater vent |

## AMWTF

Process Description:

Three propane boilers with aggregate capacity of 12.55 MMBtu/hr and one potable water heater with capacity of 2.0 MMBtu/hr are existing at Advanced Mixed Waste Treatment Facility (AMWTF).

Table 4.13 lists the emission unit and control device associated with three propane boilers and one potable water heater at AMWTP.

Table 4.13 EMISSION UNITS, CONTROL DEVICE, AND DISCHARGE POINT INFORMATION

| Emissions Unit Description | Control Device Description (if applicable) | Emissions Discharge Point ID No. or Description |
|---|---|---|
| Aggregate emissions from three propane boilers and one potable water heater | None | Boiler and water heater stacks |

## 4.10 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.

The IEUs that are based on size or production at the INL are identified in Appendix E of this statement of basis.

## Non-applicable Requirements for Which a Permit Shield is Requested

This section of the permit lists the regulations for which the facility has requested, and DEQ proposes to grant, a permit shield pursuant to IDAPA 58.01.01.325. The findings on which this shield is based are presented below:

### Requirements for Which a Permit Shield Will Be Granted

None requested.

### Requirements for Which a Permit Shield Will Not Be Granted

None requested.

## 4.11 Emissions Inventory

Table 4.14 summarizes the emissions inventory for this major facility. 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.

The emission inventory as presented in Table 4.14 is a summary of emissions limits that are found in the Tier I operating permit for this facility and that represents the PTE.

Table 4.14 EMISSIONS INVENTORY – POTENTIAL TO EMIT (T/yr)

| Emissions Unit Description | $PM_{10}$/PM | $NO_X$ | $SO_2$ | CO | VOC | Lead | HAPs | GHG ($CO_2e$) |
|---|---|---|---|---|---|---|---|---|
| MFC, Utility Paint Spray Booth | 0.2 | -- | -- | -- | 0.8 | -- | -- | |
| INTEC, CPP-606 boilers | -- | 75.6 | 163 | -- | -- | -- | -- | |
| INTEC, IWTU | -- | 39.4 | -- | -- | -- | -- | -- | |
| INTEC, COM-UTI-616 | -- | 35.65 | -- | -- | -- | -- | -- | |
| TAN, TAN 679-067 and TAN 679-068 boilers | -- | 22.13 | 79.33 | | | -- | -- | |
| TAN, TAN 629-012, 014: 2B paint process | -- | -- | -- | -- | 4.1 | -- | -- | |
| ATR Complex, Three IC engine generators | -- | 119.5 | -- | -- | -- | -- | -- | |
| AMWTP, aggregate emissions from mobile equipment operates within the TSA-RE and the propane heater | -- | 17.3 | -- | -- | -- | -- | -- | |
| AMWTP, aggregate emissions from three boilers | -- | 3.1 | -- | -- | -- | -- | -- | |
| **TOTAL EMISSIONS** | **0.2** | **312.68** | **242.33** | **--** | **4.90** | **--** | **--** | **265,357** |

## 5. 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;
- Materials and Fuels Complex (MFC) Emissions Limits;
- Central Facility Area (CFA) Emissions Limits;
- Idaho Nuclear Technology and Engineering Center (INTEC) Emissions Limits;
- Critical Infrastructure Test Range Complex (CITRC) Emission Limits;
- Naval Reactor Facility (NRF) Emissions Limits;
- Test Area North (TAN) Emissions Limits;
- Advanced Test Reactor Complex (ATR Complex) Emissions Limits;
- Radioactive Waste Management Complex (RWMC) Emissions Limits;
- Advanced Mixed Waste Treatment Project (AMWTP) Emissions Limits; 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.

The discussion of each permit condition includes the legal and factual basis for the permit condition.

***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 MRRR for the facility-wide permit conditions has been paraphrased. Refer to the permit for the complete requirement.

## 5.1 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 a quarterly facility-wide inspection of all sources of fugitive emissions. If any of the sources of fugitive dust are not being reasonably controlled, corrective action is required.
- Records of each fugitive dust inspection and corrective action taken are to be maintained at the permitted facility.

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

**Permit Condition 2.5 – 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, 4/2/08T]**

**MRRR (Permit Condition 2.6)**

- Conduct a quarterly facility-wide inspection during daylight hours and under normal operating conditions for the purposes of observing points of visible emissions from all emissions units subject to the visible emissions standards.
- Sources that are monitored using a continuous opacity monitoring system (COMS) are not required to comply with this permit condition.
    - Each inspection shall be conducted as follows:
        - Initial see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either:
            - Take appropriate corrective action as expeditiously as practicable,

**OR**

- Perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. If the measured opacity is greater than 20% for the time period specified in Section 625, the permittee shall take corrective action and report the exceedance in its annual compliance certification and in accordance with IDAPA 58.01.01.130-136.

- Records of each visible emission inspection and each opacity test and corrective action taken are to be maintained at the permitted facility.

**[IDAPA 58.01.01.322.06, 07, 5/1/94; IDAPA 58.01.01.322.08, 4/5/00]**

**Permit Condition 2.7 – 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 Permit Condition 2.7 and the regulations of IDAPA 58.01.01.130-136.

**MRRR**

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

**Permit Condition 2.8 – 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, 4/2/08T]**

**MRRR**

No monitoring is required for this facility-wide condition. As with all permit conditions, INL 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 2.9 – Fuel Burning Equipment PM Standards**

The permittee shall not discharge PM to the atmosphere from any fuel-burning equipment 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.

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

**MRRR**

Refer to Permit Condition 2.9.1 and IDAPA 58.01.01.677.

No monitoring is required for this facility-wide condition. As with all permit conditions, INL 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 2.10 – Distillate Fuel Oil Sulfur Content Limits**

The permittee shall not sell, distribute, use, or make available for use any fuel oil containing more than the following percentages of sulfur:

- Residual fuel oil – 1.75% by weight.
- ASTM Grade 1 fuel oil - 0.3% by weight.
- ASTM Grade 2 fuel oil - 0.5% by weight.

**[IDAPA 58.01.01.725, 5/8/09]**

**MRRR – (Permit Condition 2.10.1)**

The permittee shall maintain documentation of supplier verification of fuel oil on an as-received basis.

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

**Permit Condition 2.11– Particulate Matter, Process Weight Limitations**

Permit Condition 2.11 states: "No person shall emit to the atmosphere from any process or process equipment operating prior to October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions from the entire source in pounds per hour, and PW is the process weight in pounds per hour:

a. If PW is less than 17,000 lbs/hr,
   $E = 0.045(PW)^{0.60}$

b. If PW is equal to or greater than 17,000 lbs/hr,
   $E = 1.12(PW)^{0.27}$

No person shall emit to the atmosphere from any process or process equipment operating on or after October 1, 1979, PM in excess of the amount shown by the following equations, where E is the allowable emissions 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 lbs/hr,
   $E = 0.045(PW)^{0.60}$

b. If PW is equal to or greater than 9,250 lbs/hr,
   $E = 1.10(PW)^{0.25}$ "

The condition states the process weight limitations for existing and new equipment

**[IDAPA 58.01.01.700-703, 3/30/01]**

**MRRR**

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. Any recordkeeping and monitoring information maintained for process weight rate shall be kept in accordance with Facility-wide Condition 2.22.

**Permit Condition 2.12 – 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

The permittee shall submit a compliance test report for the respective test to DEQ within 30 days following the date in which a compliance test required by this permit is concluded. The compliance test report shall include all process operating data collected during the test period as well as the test results, raw test data, and associated documentation, including any approved test protocol.

The proposed test date(s), test date rescheduling notice(s), compliance test report, and all other correspondence shall be sent to the following address:

Air Quality Permit Compliance
Department of Environmental Quality
Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402
Phone: (208) 528-2650 Fax: (208) 528-2695

In accordance with 40 CFR 60.4, all 40 CFR 60 (NSPS) test information shall be submitted in duplicate to the Region 10 Office of the EPA to the attention of the Director of the Office of Air Quality at the following address. Copies of all test information required to be submitted to the EPA for applicable New Source Performance Standards (NSPS) requirements and National Emission Standards for Emissions of Radionuclides other than Radon from Department of Energy Facilities, shall also be submitted to DEQ.

EPA Region 10
Air Operating Permits, OAQ-107
1200 Sixth Ave.
Seattle, WA 98101

**[IDAPA 58.01.01.157, 4/5/00; IDAPA 58.01.01.322.06, 08.a, 09, 5/1/94]**

**MRRR**

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

However, if performance testing is required, it is to be conducted in accordance with IDAPA 58.01.01.157, including any and all monitoring, recordkeeping and reporting requirements. Emissions-unit specific MRRR will be listed within the permit condition requiring performance testing permit condition.

**Permit Condition 2.13 – NESHAP Boiler MACT, 40 CFR 63 Subpart DDDDD**

The existing boilers at the INL are subject to 40 CFR 63, Subpart DDDDD. The final rule was promulgated on March 21, 2011. Its effectiveness was then delayed by the EPA on May 18th, 2011. The rule has been under reconsideration with proposed changes since December 23, 2011. Until such time EPA issues the final rule, no further requirements of the Subpart are added to the permit at this time. Applicable requirements will be added to the permit during the next amendment, revision, reopening for cause or renewal action. Therefore, this section is reserved for Subpart DDDDD.

**Permit Condition 2.14 - National Emissions Standards for Emissions of Radionuclides other than Radon from DOE Facilities**

Applicable Requirement: Permit Condition 2.14 states: "Emissions of radionuclides to the ambient air from DOE facilities shall not exceed those amounts that would cause any member of the public to receive in any year an effective dose equivalent of 10 mrem/yr."

The condition quotes the standard given in 40 CFR 61.92. All INL radionuclide sources are subject to 40 CFR 61 Subpart H.

**MRRR**

Permit Condition 2.14.1 states: "In accordance with 40 CFR 61.93, the permittee shall determine radionuclide emissions and calculate effective dose equivalent values to members of the public using EPA-approved methods."

Permit Condition 2.14.2 states: "The permittee shall submit annual reports and maintain records documenting radionuclide emissions and effective dose equivalent values in accordance with 40 CFR 61.94 and .95."

The condition summarizes compliance and reporting requirements in 40 CFR 61.94 and recordkeeping requirements according to 40 CFR 61.95.

**Permit Condition 2.15 – National Emission Standard for Asbestos**

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

**[40 CFR 61, Subpart M]**

**MRRR**

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

The INL has identified two waste disposal facilities for asbestos-containing material: the SDA at the RWMC and the CFA INL landfill complex. Asbestos waste disposal facilities are subject to compliance with the standard given in 40 CFR 61.

## MACT Standards Summary (Permit Conditions 2.16 through 2.18)

**Permit Condition 2.16 - National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations, Publicly Owned Treatment Works**

40 CFR 63 Subpart DD applies to facilities that satisfy the criteria listed in both 40 CFR 63.680(a)(1) and 63.680(a)(2). 40 CFR 63.680(a)(2) states: "At the plant site is located one or more of operations that receives off-site materials as specified in paragraph (b) of this section and the operations is one of the following waste management operations or recovery operations as specified in paragraphs (a)(2)(i) through (a)(2)(vi) of this section."

To be subject to the regulations within Subpart DD, a facility must receive off-site materials as specified in 40 CFR 63.680(b). Subpart DD lists exclusions to the definitions of off-site materials in 40 CFR 63.680(b)(2). The following two exclusions apply to the INL facility:

40 CFR 63.680(b)(2)(ii): "Radioactive mixed waste managed in accordance with all applicable regulations under Atomic Energy Act and Nuclear Waste Policy Act authorities."

40 CFR 63.680(b)(2)(iii): "Waste that is generated as a result of implementing remedial activities required under the Resource Conservation and Recovery Act (RCRA) corrective action authorities (RCRA sections 3004(u), 3004(v), or 3008(h)), Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) authorities, or similar Federal or State authorities." There is also a facility-wide exemption defined in 40 CFR 63.680(d): "The owner or operator of affected sources subject to this subpart is exempted from the requirements of §§ 63.682 through 63.699 of this subpart in situations when the total annual quantity of the HAP that is contained in the off-site

material received at the plant site is less than one megagram (~ 1.1 tons) per year."

**MRRR**

DOE submitted to DEQ on May 31, 2002 a certified statement of the amount of off-site material received at INTEC for the calendar years 1999, 2000, and 2001. According to the statement, the INL facility did not receive off-site material, as defined in 40 CFR 63 Subpart DD, with a total annual quantity of HAPs greater than or equal to 1 megagram (~ 1.1 tons) per year. Therefore, the off-site material received in years 1999, 2000, and 2001 indicated at that time the INL is not subject to the regulations within 40 CFR 63, Subpart DD. The INL must, however, continue to maintain documentation of the determination of the total HAP quantity in the off-site material received at the plant in accordance with 40 CFR 63.680(d)(3). The documentation must include the basis and data used for determining the HAP content of the off-site material as stated in Permit Condition 2.16.3.

**Permit Condition 2.17 - National Emission Standards for Wood Furniture Manufacturing Operations**

40 CFR 63 Subpart JJ applies to each facility that is engaged, either in part or in whole, in the manufacture of wood furniture or wood furniture components and that is located at a plant site that is a major source as defined in 40 CFR part 63, subpart A. The DOE has certified in the Title V Operating Permit application that the INL facility is considered a major source of HAP emissions as defined in 40 CFR 63. In addition, a portion of the INL meets the applicability requirements of 40 CFR 63 Subpart JJ.

In accordance with § 63.800(a), the owner or operator of a source that meets the definition for an incidental wood furniture manufacturer shall maintain purchase or usage records demonstrating that the source meets the definition in § 63.801 of this subpart, but the source shall not be subject to any other provisions of this subpart. In accordance with § 63.801(a), an Incidental wood furniture manufacturer means a major source that is primarily engaged in the manufacture of products other than wood furniture or wood furniture components and that uses no more than 100 gallons per month of finishing material or adhesives in the manufacturer of wood furniture or wood furniture components. The DOE has certified in the Title V Operating Permit application that the INL facility meets the definition of an Incidental wood furniture manufacturer because INL is not a facility that is primarily engaged in the manufacturer of wood furniture or wood furniture components.

**MRRR**

Tier I Permit Conditions 2.17 through 2.17.2 includes appropriate recordkeeping requirements to ensure the INL facility demonstrates monthly compliance with the incidental wood manufacture applicability.

**Permit Condition 2.18 – 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 2.18.1 through 2.18.7.

**MRRR**

The Tier I Permit Conditions 2.18.4 through 2.18.7 includes monitoring, reporting and recordkeeping requirements to ensure the INL facility demonstrate compliance with the applicable requirements of Subpart ZZZZ.

See Appendix C for the Federal Requirements Applicability (FRA) form submitted by INL.

**Permit Condition 2.19 – Accidental Release Prevention, 40 CFR 68 Subpart F**

The facility certified in the permit application that it does not have sources that are at threshold levels of any specified chemicals as determined in accordance with 40 CFR 68.115. Therefore, the facility is currently not subject to the requirements of 40 CFR 68. However, should the facility ever become subject to 40 CFR 68, it must comply with the requirements of the chemical accident prevention provisions 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; or the date on which a regulated substance is first present above a threshold quantity in a process.

**Permit Conditions 2.20 and 2.21 – Protection of Stratospheric Ozone; Recycling and Emissions Reductions, 40 CFR 82 Subparts B and F**

The regulations in 40 CFR 82 Subparts B and F are intended to reduce Class I and Class II refrigerants emissions to the lowest achievable level during the service, maintenance, repair, and disposal of appliances and motor vehicle air conditioners. These regulations are in accordance with CAA Sections 608 and 609. Refer to Permit Condition 2.20, through 2.21 and 40 CFR 82.

**Permit Condition 2.22 – 2.23 Monitoring and Recordkeeping**

The permittee shall maintain sufficient records to assure compliance with all of the terms and conditions of this operating permit. Records of monitoring information shall include, but not be limited to, the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

**[IDAPA 58.01.01.322.07, 5/1/94]**

In absence of any other creditable evidence, compliance with the pounds per hour and tons per year existing in this permit is assured by complying with this permit's operating, monitoring and recordkeeping requirements.

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

**MRRR**

For Permit Condition 2.22, no monitoring is required for this facility-wide condition. As with all permit conditions, INL 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 is included in this permit as a gap filling in accordance with IDAPA 58.01.01.322.06 (Monitoring). In any permit condition where there is no requirements to perform a source test, permit condition 2.23 can be used to determine compliance with emissions limits (i.e., lbs/hr and T/yr) found in the permit. This permit condition can also be used for determining compliance with the grain loading requirements (IDAPA 58.01.01.675) when PM source test is not required in the permit. The Tier I operating permit requires that to include sufficient monitoring to ensure compliance with all of the terms and conditions of the Tier I operating permit, in accordance with IDAPA 58.01.322.06.

**Permit Condition 2.24 – Reports and Certifications**

All periodic reports and certifications required by this permit shall be submitted to DEQ no later than February 28 and August 31 of each year. Excess emissions reports and notifications shall be submitted in accordance with IDAPA 58.01.01.130-136. Reports, certifications, and notifications shall be submitted to:

Air Quality Permit Compliance
Department of Environmental Quality
Idaho Falls Regional Office
900 N. Skyline, Suite B
Idaho Falls, ID 83402
Phone: (208) 528-2650 Fax: (208) 528-2695

The periodic compliance certification required by General Provision 21 shall also be submitted to DEQ no later than February 28 and August 31 of each year to:

EPA Region 10
Air Operating Permits, OAQ-107
1200 Sixth Ave.
Seattle, WA 98101

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

**MRRR**

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

TAP Applicable Requirement as it Appears in the Tier I Operating Permit:

The TAP conditions that are existing in the current PTCs for the INL facility are considered a "state only" permit conditions; these permit conditions are not applicable requirements by definition (found in IDAPA 58.01.01.008.03.b) because they relate to assuring compliance with the state's toxic substances regulation (IDAPA 58.01.01.161) therefore, they are not included in the renewed Tier I operating permit. Refer to item #8, "Permit Authority" on page one of the INL Tier I operating permit.

**Permit Condition 2.26 – Standards of Performance for New Stationary Compression Ignition Internal Combustion Engines – 40 CFR 60 Subpart IIII**

The permittee shall comply with all applicable portions of 40 CFR 60, Subpart IIII, which are specified in Permit Conditions 2.26.1 through 2.26.4.

The INL has commenced construction (i.e., ordered) or installed an emergency fire pump engine or emergency power engine-generator sets at Advanced Test Reactor Complex (ATR Complex), Central Facilities Area (CFA), Idaho Nuclear Technology and Engineering Complex (INTEC), and the Materials and Fuels Complex (MFC).

The four emergency engines at INL are subject to the requirements of 40 CFR Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. Subpart IIII includes requirements for both the manufacturer and the owners/operators of affected engines.

**MRRR**

The Tier I Permit Conditions 2.26.1 through 2.26.4 includes monitoring, reporting and recordkeeping

requirements to ensure the INL facility demonstrate compliance with the applicable requirements of Subpart IIII.

See Appendix D for the FRA form submitted by INL.

## 5.2 Emissions Unit-specific Emissions Limits and MRRR

This section of the statement of basis contains the emissions limits and standard and monitoring, recordkeeping and reporting requirements (MRRR) for this facility. The regulatory authority to impose the permit conditions is included in the permit and listed below each condition as a regulatory citation. These conditions are the applicable requirements for this facility.

According to the renewal permit application some changes have occurred at the facility, which would not increase the facility's emissions to the previous Tier I operating permit term. Thus, this section of the statement of basis the DEQ used the same regulatory analysis existed in the initial Tier I operating permit that was issued to INL on June 28, 2005. There is, however, a slight change in the regulatory analysis in this statement of basis to reflect changes to DEQ's most current Tier I operating permit template and also to reflect any amendment to the applicable NSPS requirements since the issuance of the initial Tier I operating permit to the facility. Also, a new MACT (Subpart ZZZZ) and new NSPS (Subpart IIII) requirements are added to the permit in the Facility-Wide conditions, CFA, INTEC, and ATR Complex sections of the permit. These new requirements are discussed in Section 5.1 of this statement of basis. Additionally, some sources have been removed from the facility and some new PTCs were issued such as the one on August 31, 2009 for the Integrated Waste Treatment Unit at INTEC facility and its requirements are added to the renewed Tier I operating permit.

In this section of the statement of basis the existing permit conditions are identified as "Existing Permit Conditions," and if the existing permit condition has been revised, the revised permit conditions are identified as "Revised Permit Conditions."

### Materials and Fuels Complex

#### Emissions Units Description

The MFC facility has one emission unit, a utility spray paint booth. A summary description for the emission unit is in the permit and in Section 2 of the statement of basis.

**Utility Spray Paint Booth:**

**Permit Condition 3.1.1 – PM and VOC Emissions Limits – (PTC No. 011-00022, 2/20/03)**

The PM and VOC emissions from the utility paint spray booth stack shall not exceed any corresponding emissions rate limits listed in Table 3.2.

**Table 3.2 UTILITY PAINT SPRAY BOOTH EMISSIONS[B] LIMITS**

| Source Description | PM | VOC |
|---|---|---|
| | T/yr[a] | T/yr[a] |
| Utility Paint Spray Booth | 0.2 | 0.8 |

[a] tons per consecutive 12-month period
[b] As determined by a pollutant-specific EPA reference method, DEQ-approved alternative, or as determined by the DEQ's emissions estimation methods used in this permit analysis.

**MRRR – (Permit Conditions 3.1.2 through 3.1.7)**

Compliance with the PM and VOC emissions limits in Permit Condition 3.1.1 is determined by Permit Conditions 3.1.2 (type of paints and solvent used), 3.1.5 (PM removal filter efficiency), and 3.1.7 (emission calculations.)

DEQ deleted the footnote "c" in Table 3.2 which states "As determined by multiplying the actual or allowable (if actual is not available) pound-per-hour emissions rate by the allowable hours per year that the process(es) may operates(s), or by actual annual production rates."

There are no pounds per hour available to calculate the tons per year emissions. So the footnote c is meaningless without any short-term emissions limits in the permit and, thus, it is deleted from the table. Compliance with the tons per year emissions limits from the paint booth can be determined through calculations and in accordance with permit conditions 2.22 and 2.23.

In permit condition 3.1.3 DEQ deleted the statement "Within 60 days of February 20, 2003" and replaced it with the following: "The permittee shall maintain and implement an O&M manual for the exhaust filter. This manual shall contain, at a minimum, the filter replacement schedule. The manual shall remain on site and be made available to DEQ representatives upon request". DEQ can assume that the permittee has developed the O&M manual within the timeframe of the PTC issued to the facility on February 20, 2003, and therefore that statement is deleted.

Existing Permit Condition 3.1.2 states "Only those paints and solvents as submitted in the permit application, or comparable replacements, which comply with the emissions limits in Permit Condition 3.1.1 of this permit may be used in the utility paint booth unless prior DEQ approval is obtained." Compliance with this permit condition is determined by Permit Condition 3.1.7.

Existing Permit Condition 3.1.2 states "Only filters which have a manufacturer guarantee to remove at least 87% of particulate shall be used in the cabinet type exhaust chamber." Compliance with this permit condition is determined by Permit Condition 3.1.6.

Existing Permit Condition 3.1.7 states "The permittee shall maintain records of the types, quantities, solvent content, and date of application for all paints and solvents used in the paint booth. The permittee shall calculate the total VOC emissions for the previous month assuming all solvents are emitted to the atmosphere. All records shall be maintained on site in accordance with permit conditions 2.22." Compliance with this permit condition is determined by permit condition 2.22.

**Central Facilities Area (CFA)**

Permit Conditions 4.1 through 4.7 associated with the CFA-609-005 boiler are no longer considered an applicable requirements because P-060518 was rescinded on October 23, 2012.

However, the only applicable requirements that apply to the CFA are in the facility-wide conditions located in Section 2 of this permit.

## Idaho Nuclear Technology and Engineering Center (INTEC)

INTEC, occupying approximately 250 acres, is located in the southwestern portion of the INL.

Major operating facilities at INTEC include hazardous and mixed waste storage and treatment units located at CPP-659, CPP-604, CPP-666, CPP-1617, Calcine Solids Storage facility (Bin Sets), and the Tank Farm. The Tank Farm is currently undergoing closure. A number of facilities at INTEC continue to operate and fulfill the Spent Nuclear Fuel mission at INTEC, including storage and transfer of spent fuel in the fuel storage area at CPP-666, and the dry spent fuel storage vaults in CPP-603 and CPP-749.

INTEC also has responsibility for waste disposition, managing plant utilities and maintenance, materials and supplies, engineering, steam output, and roads and grounds.

The Integrated Waste Treatment Unit, once operational, will treat the remaining Tank Farm sodium-bearing waste (SBW) and newly generated waste liquid waste to produce a solid treatment product for disposal.

Other work at INTEC includes Environmental Remediation, including Tank Farm soils, groundwater monitoring and long-term stewardship.

**Building CPP-606 Distillate Oil-fired Boilers:**

**Emissions Unit Description**

Building CPP-606 includes four distillate oil-fired boilers with a rated capacity of 36.4 MMBtu/hr each. The boilers are permitted in PTC No. P-2012.0053, issued September 18, 2012. A flue gas recirculation (FGR) on each boiler provides $NO_x$ emissions control. The boilers are subject to the NSPS in accordance with 40 CFR 60, Subpart Dc.

**Permit Condition 5.1.1 – $SO_2$, $NO_x$ and beryllium Emission Limits – (PTC No. P-030505, 1/21/04)**

The $SO_2$, $NO_x$, and beryllium emissions from the CPP-606 boiler stacks combined shall not exceed any corresponding emission rate limits listed in Table 5.2.

**Table 5.2 CPP-606 BOILER EMISSIONS LIMITS***

| Source Description | $SO_2$ | | $NO_x$ | | Beryllium | |
|---|---|---|---|---|---|---|
| | lb/day | T/yr | lb/day | T/yr | lb/day | T/yr |
| CPP-606 boilers | 895 | 163 | 415 | 75.6 | 1.05E-02 | 1.91E-03 |

* The permittee shall not exceed the T/yr listed based on any consecutive 12-month period.

**MRRR – (Permit Conditions 5.1.5 and 5.1.7)**

Tier I operating permit condition 5.1.5 limits the fuel to be combusted in the boilers to distillate fuel only and also limits the fuel sulfur content to 0.3%. Tier I operating permit condition 5.1.7 limits the daily combustion rate of the fuel oil to 20,736 gallons per day. These permit conditions assure compliance with the emission limits.

**Permit Condition 5.1.2 – PM, Fuel Burning Equipment Limits – (PTC No. P-030505, 1/21/04)**

In accordance with IDAPA 58.01.01.676 (Rules for the Control of Air Pollution in Idaho), the permittee shall not discharge into the atmosphere from the Building CPP-606 boilers stacks any gases that contain particulate matter emissions in excess of 0.05 grains per dry standard cubic foot (gr/dscf) corrected to 3% oxygen."

**MRRR – (Permit Conditions 5.1.5 and 5.1.7)**

Compliance with Tier I Permit Condition 5.1.2 is assured by limiting the type of fuel combusted in the boilers to #2 fuel oil exclusively (Tier I Permit Condition 5.1.5). Appendix A of this statement of basis contains a grain loading calculation which shows through using AP-42 emission factors and a combustion evaluation that particulate matter grain loading is below the standard when #2 fuel oil is combusted.

**Permit Condition 5.1.4 – Opacity Limits, NSPS Requirement – (40 CFR 60.43c, PTC No. P-030505, 1/21/04)**

"In accordance with 40 CFR 60.43c, the permittee shall not discharge into the atmosphere from the Building CPP-606 boilers stacks any gases that exhibit greater than 20% opacity (six-minute average),

except for one six-minute period per hour of not more than 27% opacity. The opacity standard shall apply at all times except during periods of startup, shutdown, or malfunction. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625 and as specified in 40 CFR Part 60."

**MRRR – (Permit Condition 2.6)**

Compliance with the opacity limit standards (40 CFR 60.43c) is specified in the Facility-wide Permit Condition 2.6 and shall be determined in accordance with 40 CFR 60.45c and as required in 40 CFR 60.8, and IDAPA 58.01.01.157.

**Permit Condition 5.1.5 – Combusting only Distillate Fuel Oil – (PTC No. P-030505, 1/21/04)**

"The permittee shall combust distillate oil only in the Building CPP-606 boilers. The distillate oil combustion in these boilers shall not contain greater than 0.3 weight percent sulfur."

**MRRR – (Permit Condition 5.1.8)**

Tier I operating permit condition 5.1.8 requires monitoring of all the fuel combusted in the boilers to assure that the fuel meets the specifications of distillate fuel oil and to verify the sulfur content of all fuel oil combusted.

**Permit Condition 5.1.6 – Sulfur Content in the Distillate Fuel Oil – (40 CFR 60.42c(d), 40 CFR 60.41c, PTC No. P-030505, 1/21/04)**

In accordance with 40 CFR 60.41c, distillate oil means fuel oil that complies with the specification for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D975-11b, 'Standard Specification for Fuel Oils'.

It should be noted that Permit Condition 5.1.5 specifies a sulfur content that shall not contain greater than 0.3 weight percent sulfur, which is more stringent than that of 0.5 percent sulfur contained in the NSPS's 40 CFR 60.42c(d). Therefore, the 0.5 weight percent sulfur requirement is deleted from this permit.

**MRRR – (Permit Condition 5.1.8)**

The underlying applicable requirement in PTC No. P-2012.0053 has been modified to clarify that the 0.3 weight percent sulfur limitation is in lieu of a requirement to operate continuous emission monitor.

Tier I operating permit condition 5.1.8 requires maintaining documentation of the fuel sulfur content for all fuel used in the boilers.

Permit Condition 5.1.10 (40 CFR 60.44c(h)) is for demonstrating compliance with Permit Condition 5.1.6. Permit Condition 5.1.10 states "In accordance with 40 CFR 60.42c(h), the performance test to demonstrate compliance with Section 5.1.6 of this permit shall consist of certification from the fuel supplier. In accordance with 40 CFR 60.48c(f), fuel supplier certification shall include the following information for distillate oil: (1) the name of the oil supplier; (2) a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and (3) the sulfur content or maximum sulfur content of the oil."

It should be noted that in the initial Tier I operating permit (issued in 2005), the Permit Condition 5.1.10 is modified to include item number (3) above which was missing from that permit.

**Permit Condition 5.1.7 – Amount of Fuel Oil Combusted in all Boilers – (PTC No. P-030505, 1/21/04)**

"The total amount of boiler fuel combusted for all Building CPP-606 boilers shall not exceed 20,736 gallons per day."

**MRRR – (Permit Condition 5.1.9)**

Tier I Operating Permit Conditions 5.1.9 requires daily monitoring of the amount of fuel combusted in the boilers.

**MRRR – (Permit Condition 5.1.11 and 5.12)**

These permit conditions are monitoring and recordkeeping requirements to assure compliance with other permit conditions such as 5.1.9 through 5.1.10.

**Integrated Waste Treatment Unit (IWTU):**

**Emissions Unit Description**

The IWTU is designed to treat liquid sodium bearing waste (SBW) and newly generated liquid waste (NGLW) to produce a solid treatment product for ultimate disposal. The IWTU will utilize steam reforming technology which includes a dual fluidized-bed process that uses superheated steam, carbon, and other additives to convert the SBW into a solid, granular treatment product that is packaged into canisters suitable for ultimate disposal. The system is designed to operate with a liquid feed rate that will not exceed 3.5 gallons per minute. The process is named the Integrated Waste Treatment Unit because two fluidized-bed steam reformers, the Denitration and Mineralization Reformer (DMR) and the Carbon Reduction Reformer (CRR), are integrated into a single treatment process with a common air pollution control system. The DMR, CRR and material transfer and loadout systems utilize filters that are integral to the processing system used to capture and package the solid treatment product; these filters are not part of the air pollution control system. The IWTU air pollution control system includes the Process HEPA Filter System (which is located downstream from the DMR and CRR).

**Permit Condition 5.2.1 – $NO_x$ Emissions Limits – (PTC No. P-2008.0199, 8/31/09)**

The $NO_x$ emissions increase from the IWTU project shall not exceed 39.4 tons per any consecutive 12-month period.

**MRRR – (Permit Condition 5.2.2, 5.2.3, and 5.2.4)**

Compliance with the $NO_x$ emissions limit is demonstrated by complying with the operating, monitoring and recordkeeping permit conditions described below (i.e., annual liquid feed limit and $NO_x$ performance testing).

To demonstrate compliance with $NO_x$ emissions limit, operating, monitoring and recordkeeping conditions for the allowable throughput limit that shall not exceed 1,114,000 gallons per any consecutive 12-month period. These conditions limit the annual throughput of liquid waste fed into the ITWU and require the actual throughput to be monitored and recorded. Permit Condition 5.2.4 requires that the permittee to monitor and record on a monthly and annual basis the amount of liquid waste fed into the IWTU.

An additional requirement was included in the underlying applicable requirement of PTC No. P-2008.0199, issued on 8/31/2009, to demonstrate compliance with $NO_x$ emissions limit, to confirm that the actual emissions are consistent with the estimates provided in the underlying PTC application. This requirement is accomplished through a $NO_x$ performance test as described in Permit Condition 5.2.3.

Using the measured emission rates and emission factors obtained from the performance test, plus the actual production rate data that is required to be recorded, compliance with the $NO_x$ emissions limit may be demonstrated. For safety purposes, the initial performance test may be conducted using surrogate liquid waste feed material that is representative of the actual liquid that will be processed but that is not radioactive. If the test is performed using a surrogate liquid feed material, the permittee should provide a detailed description in the performance test protocol and the final test report that explains how it is representative of the actual waste that will be processed.

**Permit Condition 5.2.5 – Monitoring $NO_x$ Emissions Increase of the IWTU Project – (PTC No. P-2008.0199, 8/31/09)**

Prior to initial startup of the source, the permittee shall have developed and obtained DEQ's approval of a monitoring method to be used to demonstrate compliance with Permit Condition 5.2.1. The method shall require the permittee to monitor and record the following for each calendar month:

- Monthly boilers $NO_x$ emissions increase caused by the IWTU operation
- Monthly $NO_x$ emissions from the IWTU stack
- The monthly sum of these two emissions increase
- Using the monthly sum of these two emissions, calculate and record the $NO_x$ emissions for the IWTU project for each consecutive 12-month period.

**MRRR – (Permit Condition 5.2.5)**

The monitoring, reporting, and recordkeeping requirements are within the Permit Condition 5.2.5.

Some existing permit conditions in PTC No. P-2008.0199, issued on August 31, 2009 are not carried over into this Tier I operating permit renewal because they are addressed somewhere else in this permit renewal. The following permit conditions that are not included in the text of this section of the permit and the reasons for not including them in this renewal.

Permit Condition 2.3 - Radionuclide Emissions Limits-NESHAP. This permit condition is already addressed in the Facility –Wide sections of the permit (Permit Condition 2.14).

Permit Condition 2.5- Visible Emissions. This permit condition is already addressed in the Facility – Wide sections of the permit (Permit Conditions 2.5 and 2.6).

Permit Condition 2.9 - Radionuclide Emission Monitoring and Test Procedures -NESHAP. This permit condition is already addressed in the Facility –Wide sections of the permit (Permit Condition 2.14).

Permit Condition 2.12 – HEPA Filter Monitoring. The HEPA filter operating and monitoring requirements are state only requirements that are not included in the Tier I operating permit in accordance with IDAPA 58.01.01.58.008.03.b. IDAPA 58.01.01.03b defines applicable requirement as "any term or condition of any permits to construct issued by the Department pursuant to Sections 200 through 223 or by EPA pursuant to 42 U.S.C. Sections 7401 through 7515; provided that terms or conditions relevant only to toxic air pollutants are not applicable requirements." Permit Condition 2.12 is a state only permit condition because it is it relates to assuring compliance with the state' toxic substances regulation (IDAPA 58.01.01.161) and therefore, is not included in the Tier I operating permit.

Permit Condition 2.14 - Radionuclide Emissions Compliance and Reporting - NESHAP. This permit condition is already addressed in the Facility –Wide sections of the permit (Permit Condition 2.14).

**COM-UTI-616 , Backup Internal Combustion Engine at INTEC:**

**Emissions Unit Description**

The backup air compressor (COM-UTI-616) is rated at 460 horsepower at 1800 rpm and was manufactured in February of 1997. The air compressor supplies filtered air at 115 psig to the compressed air system when electric power is not available to the normal standby air compressors and is located outside CPP-616 in the southeast corner of the CPP-606. It is a portable rotary screw, oil flooded compressor manufactured by Ingersoll-Rand, model number is XP-1400WCU. The compressed air capacity is 1,400 scfm at 115 psig. The backup compressor (COM-UTI-616) is powered by Cummins diesel fueled internal combustion engine.

**Permit Condition 5.3.1 – $NO_x$ Emissions Limits – (PTC No. P-2007.0076, 9/12/07)**

The $NO_x$ emissions from the backup internal combustion engine stack shall not exceed 35.65 T/yr.

**MRRR – (Permit Condition 5.3.3)**

The permittee shall monitor and record the operational hours of the backup internal combustion engine (COM-UTI-616) monthly and annually. The annual operational hours shall be determined by adding the monthly operational hours for the previous consecutive 12-calendar month period. All records shall be maintained on site in accordance with Permit Condition 2.22.

**Permit Condition 5.3.2 – The Backup Air Compressor Operating Limits – (PTC No. P-2007.0076, 9/12/07)**

"The maximum hours of operation of the backup internal combustion engine shall not exceed 5,000 hours per any consecutive 12- calendar month period.

The permittee shall install, maintain, and operate a device to measure the operational hours of the backup internal combustion engine, COM-UTI-616."

**MRRR – (Permit Condition 5.3.3)**

The permittee will monitor and record the hours of operation of the backup internal combustion engine on monthly and annual basis.

### Permit Condition 5.4 – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines – 40 CFR 63 Subpart ZZZZ – Non-Emergency COM-UTI-616

See Appendix C for the FRA form submitted by INL.

## Critical Infrastructure Test Range Complex (CITRC)

**Emissions Unit Description**

In accordance with the renewed Tier I operating permit application, Permit Conditions 6.1 through 6.4 associated with the $NO_x$ emissions are no longer considered an applicable requirements because the Cyclotherm boiler was taken out of the service.

However, the only applicable requirements that apply to the CITRC are in the facility-wide conditions located in Section 2 of this permit.

## Naval Reactors Facility (NRF)

The fenced portion of the Naval Reactors Facility (NRF) covers 84 acres of 4,400 acres under the cognizance of NRF in the west-central part of the INL. Established in 1949, NRF is operated for the U. S. Naval Nuclear Propulsion Program by Bechtel Marine Propulsion Corporation. The principal facilities at NRF are three former naval reactor prototypes (S1W, A1W, and S5G) and the Expended Core Facility (ECF). The S1W, A1W, and S5G prototypes were shut down in October 1989, January 1994, and May 1995, respectively.

Developmental nuclear fuel material samples, naval spent fuel, and irradiated reactor plant components/materials are examined at ECF. The knowledge gained from these examinations is used to improve current designs and to monitor the performance of existing reactors. The naval spent fuel examined at ECF is critical to the design of longer-lived cores, which results in the creation of less spent fuel requiring disposition. NRF is also preparing naval fuel for dry storage and eventual transportation to a repository.

The only applicable requirements that apply to NRF are in the facility-wide conditions located in Section 2.

## Test Area North (TAN)

The Test Area North (TAN) is in the northern part of the INL site and presently consists of the Technical Support Facility (TSF) and the Specific Manufacturing Capability (SMC) Project, along with a fire station and vehicle fueling station. A private contractor operates each of the operational areas at TAN on behalf of DOE-ID.

The SMC is a state-of-the-art research and manufacturing complex. The SMC includes a multiphased manufacturing operation that produces fabricated metal assemblies. Radionuclide emissions from SMC are generally limited to those present in depleted uranium. The SMC project supports two major process areas: (a) TAN 629 Fabrication and Assembly; and (b) TAN 679 Rolling Operations. The SMC utilizes three boilers. TAN 679-067a and TAN 679-068 are 25 MMBtu/hr boilers and TAN 679-067b is a 60 horsepower (i.e., 2 MMBtu/hr) boiler.

It is noted that when DEQ requests classified records, the records shall be made available only to DEQ representatives with appropriate national security clearances and a need to know, in accordance with federal regulations.

Sources at TAN that are subject to air quality PTC requirements are described below:

### Opacity Limit

The PTC permit condition for the opacity rule under IDAPA 58.01.01.625 includes a list of sources to which the requirement applies. Note that the opacity limit is included in the facility-wide section of the Tier I permit and this rule applies to all point sources at TAN and elsewhere on the INL, not just those sources listed in the PTC. For this reason, the opacity rule is not repeated in the TAN section of the Tier I permit.

**SMC Boilers:**

### Emissions Unit Description

Two identical boilers, located in TAN 679, have a rated maximum heat input capacity of 25 MMBtu/hr

and operate as necessary to supply building heat and process steam to SMC fabrication and manufacturing facilities. Another small boiler with a 60-hp rating is normally operated during summer months only. The large boilers are each equipped with oxygen trim sensors to increase combustion efficiency. Combustion gases from each large boiler are exhausted through individually dedicated stacks, TAN 679-067 and TAN 679-068. The small 60-hp boiler vents to TAN 679-067b.

**MRRR – (Permit Condition 8.1.1, Emissions Limits for $SO_2$, and $NO_x$) – (PTC No. P-2011.0092, 10/18/11)**

"The combined emissions of $SO_2$ and $NO_x$ from the three SMC boilers that vent to stacks TAN 679-067a, TAN 679-067b and TAN 679-068 shall not exceed any emissions rate limit in the following table.

**COMBINED BOILER EMISSION LIMITS**

| Emissions Units | $SO_2$ | | $NO_x$ | |
|---|---|---|---|---|
| | lb/hr[a] | T/yr[b] | lb/hr[a] | T/yr[b] |
| Combined Emissions From Boilers TAN 679-067a (25 MMBtu/hr), TAN 679-067b (60 Horsepower), and TAN 679-068 (25 MMBtu/hr) | 19.83 | 79.33 | 5.53 | 22.1 |

[a] Pounds per hour, as determined by a test method prescribed by IDAPA 58.01.01.157, EPA reference method, or DEQ-approved alternative

[b] Tons per any consecutive 12-calendar month period"

For clarification, the hourly $NO_x$ emissions limits are based on hourly averages calculated on a monthly basis, and the annual $NO_x$ emissions limits are based on any consecutive 12-month period.

**MRRR – (Permit Condition 8.1.2, 8.1.3, 8.1.4)**

Compliance with $SO_2$ and $NO_x$ emissions limits can be determined by applying Permit Conditions 8.1.2, 8.1.3, and 8.1.4, as shown below. These permit conditions are included in the PTC and Tier I permit to meet the operating, monitoring and recordkeeping requirements under IDAPA 58.01.01.322.06 and .07:

Permit Condition 8.1.2 establishes an operating condition that limits the type of fuels that may be combusted in the boilers. Limiting the boilers to only the specified fuels insures that actual boiler emissions will be similar to the estimates used in the permit application process to demonstrate compliance with applicable requirements.

Permit Condition 8.1.3: "When the SMC facility is operating, the permittee shall monitor and record the monthly and consecutive 12-month period fuel consumption and type of fuel consumed by the three boilers that vent to stacks TAN 679-067 and TAN 679-068. All records shall be maintained on site in accordance with permit condition 2.22."

Permit Condition 8.1.4: "Each month the permittee shall calculate and record the average pounds per hour per month $SO_2$ and $NO_x$ emissions and the $SO_2$ and $NO_x$ emissions per consecutive 12-month period from the three boilers that vent to stacks TAN 679-067a, TAN 679-067b and TAN 679-068 using appropriate EPA AP-42 or manufacturer supplied emissions factors, or a DEQ approved alternative method. All records shall be maintained in accordance with permit condition Permit Condition 2.22."

For example, for distillate fuel, compliance with the hourly $NO_x$ emissions limit may be demonstrated by using an EPA AP-42 emissions factor, or a DEQ-approved alternative factor for the appropriate fuel, and the following equation:

($X_a$ lb/1,000 gal)(Y gal/month)(1 month/Z hr) = X lb/hr on a monthly basis

Where $X_a$ = $NO_x$ emissions factors for fuel burned;
Y = monthly fuel usage for all three boilers; and
Z = total hrs of operation for all three boilers during the month.

Compliance with the annual $NO_x$ emissions limit may also be demonstrated using an EPA AP-42 emissions factor, or a DEQ-approved alternative factor for the appropriate fuel, and the following equation:

($X_a$ lb/1,000 gal)(Y gal/yr)(1 T/2,000 lbs) = X T/yr

Where $X_a$ = $NO_x$ emissions factor for fuel burned; and
Y = annual fuel usage for all three boilers, based on a consecutive 12-month period

The ton per year emissions rate is an annual limit based on consecutive 12-month periods. The results of the calculations over the appropriate time period may also be used to assure compliance.

The $SO_2$ emissions can be calculated in a similar manner.

**SMC, 2B Paint Process:**

**Emissions Unit Description**

2B Paint Process consists of an automated pressurized air paint spray system and a drying and curing oven. Airborne pollutants generated during the painting/drying operation are vented through stacks TAN 629-012 and TAN 629-014.

**Permit Condition 8.2.1 – VOC Emissions Limits – (PTC No. P-2011.0092, 10/18/11)**

"Emissions of VOC from the 2B Paint Process that vent to stacks TAN 629-012 and TAN 629-014 shall not exceed 4.1 tons per any consecutive 12-month period.

In absence of any other creditable evidence, compliance with emission limits is assured by complying with this permit's operating, monitoring, and recordkeeping requirements."

**MRRR – (Permit Conditions 8.2.2 and 8.2.3)**

In accordance with IDAPA 58.01.01.322.06 and .07, the following monitoring and recordkeeping requirements were included in the PTC to assure compliance with Permit Condition 8.2.1:

Compliance with the VOC emissions rate limit is assured using a calculation methodology. A simplified version of the calculation methodology is the number of parts per time period multiplied by the percent of material released per part. The additional VOC monitoring conditions appear in the Tier I permit as follows:

"Permit Condition 8.2.2, the permittee shall maintain a record of either one or the other of the following types of painting production information. The records shall be maintained in accordance with Permit Condition 2.22:

- the number of parts processed during the previous consecutive 12 months at the 2B Paint Process (i.e., that vent to stacks TAN 629-012 and TAN 629-014), or;
- the quantity of each material used in the 2B Paint Process, including but not limited to pre-treatment wash primer, primer, topcoat, clear coat, catalyst, activator, hardener, and thinner/reducer."

Permit Condition 8.2.3 "Using the painting production records, each month the permittee shall calculate and record the VOC emissions per consecutive 12-month period from the 2B Paint Process that vent to stacks TAN 629-012 and TAN 629-014. All records shall be maintained in accordance with permit condition Permit Condition 2.22."

## Advanced Test Reactor Complex (ATR Complex)

The ATR Complex is located in the southern part of the INL facility. The ATR complex was originally established in the early 1950s. The functions of the ATR Complex are to provide work area to conduct experiments associated with the development, testing, and analysis of materials used in nuclear and reactor operations, and to support the production and processing of radioisotopes, nonnuclear research and development, and both radiological and nonradiological laboratory analyses.

The Advanced Test Reactor (ATR) is located at the ATR Complex and is designed to study the effects of intense radiation on samples of reactor materials, especially fuels. In addition to the experimental irradiation, the ATR's secondary mission is to produce various isotopes, including about 50% of the iridium and 2% of the cobalt-60 used domestically. The ATR was constructed in 1965 and began operations in 1967.

### ATR Complex – Diesel Powered Generators

Advanced Test Reactor Complex (ATR Complex) utilizes three electrical generator units (Units 674-M-6, 670-M-42, and 670-M-43) powered by large stationary diesel engines. The primary purpose of the ATR Complex generators is to provide electrical power to the Advanced Test Reactor Complex during normal operations, off-normal operations, and emergency operation.

### Permit Condition 9.1.1 – $NO_x$ Emissions Limits – (PTC No. P-000534, 5/18/04)

"The combined $NO_x$ emissions from the 674-M-6, 670-M-42, and 670-M-43 generator stacks shall not exceed the emissions rate limit listed in Table 8.2 in any consecutive 12-month period."

**Table 9.2 ATR COMPLEX GENERATORS EMISSIONS LIMIT**

| Source Description | $NO_X$ T/yr |
|---|---|
| Combined Emissions – ATR Complex Generators | 119.5 |

### MRRR – (Permit Conditions 9.1.2, 9.1.3, and 9.1.5)

The appropriate monitoring and recordkeeping requirements to assure compliance with the $NO_x$ emission rate limits are adequately addressed by the underlying permit conditions in PTC No. P-000534, issued on 5/8/29/04. These conditions appear in the Tier I permit as Conditions 9.1.2, 9.1.3, and 9.1.5.

Permit Condition 9.1.5 states that the permittee shall monitor and record the aggregate throughput of fuel oil to generators 674-M-6, 670-M-42, and 670-M-43 for that month and for the most recent consecutive 12-month period. All records shall be maintained on site in accordance with Permit Condition 2.22.

Compliance with the annual $NO_x$ emissions limits is assured through monitoring the aggregate fuel usage through the generators. If the consecutive 12-month period fuel use is $\leq$ the fuel use limit of permit condition 9.1.3 (544,522 gallons per any consecutive 12-month period) then compliance with the annual NOx limit is demonstrated.

### Permit Condition 9.1.2 – Fuel Oil Specification – (PTC No. P-000534, 5/18/04)

"The permittee shall only combust ASTM Grade 1 and/or Grade 2-distillate fuel oil (diesel fuel) in the three generators."

**MRRR – (Permit Condition 9.1.6)**

Compliance with this applicable operating requirement (Permit Condition 9.1.2) is provided by the requirement in Tier I Permit Condition 9.1.6, which requires the permittee to maintain records of fuel supplier documentation.

**Permit Condition 9.1.3 – Fuel Oil Throughput Limit – (PTC No. P-000534, 5/18/04)**

"The maximum annual throughput of fuel oil to the 674-M-6, 670-M-42, and 670-M-43 generators shall not exceed 544,522 gallons per any consecutive 12-month period."

**MRRR – (Permit Condition 9.1.5 and 9.1.7)**

Compliance with this applicable operating requirement (Permit Condition 9.1.3) is provided by the requirement in Tier I Permit Conditions 9.1.5 and 9.1.7 which require monitoring and recordkeeping the aggregate throughput of fuel oil to the generators on monthly and yearly (consecutive 12-month period) Also, the type of fuel oil combusted in each generator on monthly and annual basis.

**Permit Condition 9.1.4 – Sulfur Content in Fuel Oil – (PTC No. P-000534, 5/18/04)**

"The sulfur content in No. 1 fuel oil (ASTM Grade 1) supplied to the three generators shall not exceed 0.3% by weight as required in IDAPA 58.01.01.728."

"The sulfur content in No. 2 fuel oil (ASTM Grade 2) supplied to the three generators shall not exceed 0.5% by weight as required in IDAPA 58.01.01.728."

**MRRR – (Permit Condition 9.1.6)**

Compliance with this applicable operating requirement (Permit Condition 9.1.4) is provided by the requirement in Tier I Permit Condition 9.1.6, which requires the permittee to maintain records of fuel supplier documentation.

### Permit Condition 9.2 – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines – 40 CFR 63 Subpart ZZZZ – Non-Emergency Generators, TRA-674-M-6, TRA-670-M-42, and TRA-670-M-43 at ATR Complex

See Appendix C for the FRA form submitted by INL.

## Radioactive Waste Management Complex (RWMC)

There are no Permits to Construct issued specifically to the RWMC. Refer to the AMWTP and TSA-RE areas for permitting information.

The RWMC disposes of LLW and temporarily stored mixed TRU waste. Disposal of solid radioactive waste began at the RWMC in 1952. In 1953, the AEC decided that solid radioactive waste from the Rocky Flats Plant near Golden, Colorado would be sent to the RWMC. Therefore, starting in 1954, Rocky Flats wastes containing TRU nuclides (principally plutonium) were buried in pits and trenches at the RWMC.

In 1960, the INL was designated as one of two national interim radioactive waste burial grounds. Although waste was received from many sources, the majority of TRU waste was from Rocky Flats. The national burial ground designation was discontinued in 1963 when commercial disposal facilities for radioactive waste became available.

The only applicable requirements associated with the RWMC facility in the Tier I permit are the Facility-Wide requirements. RWMC has no active air quality permits. Other operations within the boundaries of RWMC that are regulated by existing permits are the AMWTP and the TSA-RE. Please refer to the AMWTP section of this memo for more information.

## Advanced Mixed Waste Treatment Project (AMWTP)

The AMWTP is underway in response to the 1995 Settlement Agreement between the state of Idaho and the DOE. The settlement agreement directed DOE to ship the currently estimated 65,000 $m^3$ of TRU waste now located at INL to the WIPP or other such facility designated by DOE, by a target date of December 31, 2015, but no later than December 31, 2018. Much of this waste requires treatment before it will be accepted for disposal at the WIPP in New Mexico.

The AMWTP will treat mixed waste, TRU waste and alpha-emitting mixed low-level waste. The project includes:

- retrieving stored waste;
- characterizing the waste for storage, treatment, or disposal;
- storing the waste in preparation for treatment or pretreatment (as required);
- pretreating and/or treating the waste in the AMWTF (if necessary); and
- certifying the waste for shipment to WIPP or another waste management unit.

The overall AMWTP includes the TSA-RE and the AMWTF. The AMWTF is specific to the treatment building, along with other buildings and associated activities. The AMWTF is located at the RWMC on the southern portion of the 56-acre TSA. The waste that requires retrieval is located in the TSA-RE just west of the AMWTF. The TSA-RE encloses asphalt pads which support primarily earthen-covered stacks of retrievably mixed waste.

### TSA-RE Facility

### Permit Condition 11.1, $NO_x$ Emissions Limits for TSA-RE – (PTC No. P-2011.0109, 9/19/11)

"The permittee shall limit $NO_x$ emissions from mobile equipment operating within the TSA-RE to levels not exceeding the limits established in Table 11.2. The $NO_x$ limit applies to equipment used to move soil and retrieve waste within the TSA-RE. The $NO_x$ limit does not apply to dump trucks, tugs, yard cranes, and other equipment that enters the TSA-RE to move soil, retrieved waste, or other materials from the TSA-RE to another location outside of the TSA-RE.

**Table 11.2 $NO_x$ EMISSIONS LIMITS**

| Transuranic Retrieval Enclosure - Storage Area Emission Limits –Annual (T/yr) | |
|---|---|
| **Source Description** | **Nitrogen Oxides** |
| | **T/yr[a]** |
| Aggregate emissions from the mobile equipment that operates within the TSA-RE (in accordance with Permit Condition 11.1) | 33.4 |

[a] Tons per year based on any consecutive 12-month period.

**MRRR – (Permit Conditions 11.5 and11.6)**

The appropriate monitoring and recordkeeping requirements to assure compliance with the $NO_x$ emission rate limits are adequately addressed by the underlying permit conditions in PTC No. P-2011.0109, issued on 9/19/11. These conditions appear in the Tier I permit as Conditions 11.5 and 11.6.

**Permit Condition 11.2 – Fuel Type for Heaters and Make-up air Units - (PTC No. P-2011.0109, 9/19/11)**

"The permittee shall combust propane exclusively in the RCE/ICE heaters and make-up air units"

**MRRR**

Monitoring is not required for this permit condition. The permittee annually certifies compliance.

**Permit Conditions 11.3, Hours of Operations Standby generator at TSA-RE – (PTC No. P-2011.0109, 9/19/11)**

"The maximum annual hours of operation of the standby generator shall not exceed 500 hours per any consecutive 12-month period."

**MRRR – (Permit Condition 11.7)**

The appropriate monitoring and recordkeeping requirement to assure compliance with the generator hours of operation limit is addressed by Permit Condition 11.7 by monitoring and recording the hours of operations of the standby generator on monthly and annual basis.

**Permit Conditions 11.4, Standby generator at TSA-RE – (PTC No. P-2011.0109, 9/19/11)**

"The maximum hourly fuel consumption of the standby generator shall not exceed 40 gallons per hour."

**MRRR – (Permit Condition 11.8)**

In accordance with IDAPA 58.01.01.322.06, Permit Condition 11.8 is included in Tier I operating permit to assure compliance with the underlying PTC condition for the fuel usage rate limit of the generator. Tier I Permit Condition 11.8 states the following:

"The permittee shall maintain documentation which demonstrates the standby generator does not exceed the 40 gallon per hour combustion rate limit. Documentation may consist of manufacture performance specifications."

**Advanced Mixed Waste Treatment Facility (AMWTF)**

The AMWTF air emissions are regulated by PTC No. 023-00001, issued on June 7, 2002. The underlying PTC conditions are included as applicable requirements in the Tier I operating permit. As applicable, the compliance assurance for each condition is also described. Some permit conditions are based on state-only requirements and are not included in the Tier I operating permit.

**Permit Condition 11.9, $NO_x$ Emissions Limits for Boilers at AMWTF – (PTC No. 023-00001, 6/7/02)**

"Annual emissions of $NO_x$ from the three boilers at the AMWTF shall not exceed the limit listed in Table 10.3.

Table 11.3 EMISSIONS LIMITS

| Advanced Mixed Waste Treatment Facility Emissions Limits[a] | |
|---|---|
| Source Description | Nitrogen Oxides T/yr[b] |
| Aggregate emissions from three boilers. | 3.1 |

[a] As determined by a pollutant-specific EPA reference method, a DEQ-approved alternative, or as determined by DEQ's emissions estimation methods used in this permit

[b] Tons per year based on any consecutive 12-month period."

**MRRR – (Permit Conditions 11.10, 11.11, and 11.12)**

The appropriate monitoring and recordkeeping requirements to assure compliance with the $NO_x$ emission rate limits are addressed by the underlying PTC No. 023-00001 permit conditions 11.10, 11.11, and 11.12.

**Permit Condition 11.10 and 11.11, Fuel Consumption Limitations for Boilers at AMWTF – (PTC No. 023-00001, 6/7/02)**

"The permittee shall combust propane exclusively in the three 12.55 MMBtu/hr boilers and one 2.0 MMBtu/hr potable water heater at the facility."

"The aggregate fuel consumption for the three boilers at the AMWTF shall not exceed 322,084 gallons per consecutive 12-month period."

**MRRR – (Permit Condition 11.12)**

The appropriate monitoring and recordkeeping requirements to assure compliance with the fuel combustion requirements are addressed in Permit Condition 11.12.

## 5.3 General Provisions

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

**General Provision 1 – 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 Provision 2 – 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 Provision 3 – 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)]**

**General Provision 4 – 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)]**

**General Provision 5 – Reopening, Permitting Actions**

This term discusses modification, revocation, reopening, and/or reissuance of the permit for cause. If INL 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)]**

**General Provision 6 – 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)]**

**General Provision 7 – 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)]**

**General Provision 8 – 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)]**

**General Provision 9 - 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)]**

**General Provision 10 – 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)]**

**General Provision 11 – Changes Requiring Permit Revision or Notice.**

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)]**

**General Provisions 12 and 13 – 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) and (2)]**

**General Provision 14 – Inspection and Entry**

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

a. 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;

b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;

c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and

d. 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)]**

**General Provision 15 – New Requirements During Permit Term**

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)]**

**General Provision 16 - 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, 3/19/07; 40 CFR 70.6(a)(7)]**

**General Provision 17 – 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)]**

**General Provision 18 – Renewal**

a. INL 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)]**

b. 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)]**

**General Provision 19 – 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:

a. Such applicable requirements are included and are specifically identified in the Tier I operating permit; or

   i. 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.

b. 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).

c. Nothing in this permit shall alter or affect the following:

   i. Any administrative authority or judicial remedy available to prevent or terminate emergencies or imminent and substantial dangers;

   ii. 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;

   iii. The applicable requirements of the acid rain program, consistent with 42 U.S.C. Section 7651(g)(a); and

   iv. 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)]**

**General Provision 20 – Compliance Schedule and Progress Reports.**

a. For each applicable requirement for which the source is not in compliance, the permittee shall comply with the compliance schedule incorporated in this permit.

b. 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.

c. 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.

d. 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)]**

**General Provision 21 – Periodic Compliance Certification**

INL shall submit compliance certifications during the term of the permit for each emissions unit to DEQ and the EPA as follows:

a. The compliance certifications for all emissions units shall be submitted annually from January 1 to December 31. The compliance certifications shall be submitted no later than February 28 of each year.

b. The initial compliance certification for each emissions unit shall address all of the terms and conditions contained in the Tier I operating permit that are applicable to such emissions unit including emissions limitations, standards, and work practices;

c. The compliance certification shall be in an itemized form providing the following information (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):

   i. The identification of each term or condition of the Tier I operating permit that is the basis of the certification;

   ii. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the methods and means required under Subsections 322.06, 322.07, and 322.08;

   iii. The status of compliance with the terms and conditions of the Tier I operating permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in Subsection 322.11.c.ii. above. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and

   iv. Such information as the Department may require to determine the compliance status of the emissions unit.

d. 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)]**

**General Provision 22 – False Statements**

INL 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]**

**General Provision 23 – No Tampering**

INL 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]**

**General Provision 24 – Semiannual Monitoring Reports.**

In addition to all applicable reporting requirements identified in this permit, INL shall submit reports of any required monitoring at least every six months. INL's semiannual reporting periods shall be from January 1 to June 30 and July 1 to December 31. All instances of deviations from this operating permit's requirements must be clearly identified in the report. The semiannual reports shall be submitted to DEQ no later than August 31 and February 28 of each year.

**[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)]**

**General Provision 25 – 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)]**

**General Provision 26 – 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)]**

**General Provision 27 - 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)]**

# 6. REGULATORY REVIEW

## 6.1 Attainment Designation (40 CFR 81.313)

The facility is located in Bonneville, Butte, Bingham, Clark, and Jefferson counties all of which are designated as attainment or unclassifiable for $PM_{10}$, $PM_{2.5}$, CO, $NO_2$, $SO_2$, $O_3$, and Pb. Reference 40 CFR 81.313.

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

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 $SO_2$ and $NO_x$ above the major source threshold of 100 tons-per-year. The INL

is also certified that its facility is major for HAPs with emissions greater than 25 T/yr of cumulative HAPs.

Additionally, the INL emits or has the potential to emit over 100,000 tons-per-year $CO_2$ equivalent of greenhouse gas (GHG) pollutants.

Therefore, the INL facility is subject to Title V requirements in accordance with IDAPA 58.01.01.300 and 40 CFR Part 70.

## 6.3 PSD Classification (40 CFR 52.21)

The facility is a major facility for the purposes of the federal prevention of significant deterioration (PSD) program as referenced by IDAPA 58.01.01.205 because the facility emits or has the potential to emit a regulated criteria air pollutant ($NO_x$) in amounts greater than or equal to the major threshold criteria of 250 T/yr.

## 6.4 NSPS Applicability (40 CFR 60)

The Part 60 that applies to INL is as follows:

40 CFR Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. This subpart applies to the four distillate fuel boilers at INTEC. Each of the boilers is with a rated capacity of 36.4 MMBtu/hr. The boilers are located in building CPP-606.

40 CFR Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

This subpart applies to new diesel-fueled emergency and fire pump engines located at the INL.

## 6.5 NESHAP Applicability (40 CFR 61)

The requirements of 40 CFR 61 Subpart H, National Emission Standards for Emissions of Radionuclides other than Radon from Department of Energy Facilities, apply to INL. These requirements are already specified for all emissions units at the INL in Section 2 (Facility-wide Conditions) of the INL Tier I operating permit. Compliance is demonstrated by meeting the requirements in the Tier I permit (see Permit Condition 2.14).

It should be noted that any PTC requirements associated with HEPA Filters or any Building Ventilation HEPA Filters at INL are considered a state-only requirements and, therefore, are not included in the Tier I operating permit.

The INL is subject to 40 CFR 61 Subpart M, National Emission Standards for Asbestos. See Permit Condition 2.15.

## 6.6 MACT Applicability (40 CFR 63)

40 CFR 63 Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

Subpart ZZZZ applies to each affected source that is any existing, new, or reconstructed stationary Reciprocating Internal Combustion Engine (RICE) located at a major or area source of HAP emissions.

The permittee, at each INL site-facility, shall maintain a current list of affected emergency stationary RICE, including the respective applicable sections of Subpart ZZZZ. Each stationary RICE listed shall, at a minimum, include the following information:

(a) Identification as existing, new, or reconstructed

(b) Identification by engine type as spark ignition (SI) or compression ignition (CI)
(c) Fuel type combusted (e.g., gasoline, propane, natural gas, diesel, etc.)
(d) Brake horsepower (HP)
(e) Pollution control equipment and/or monitoring equipment, if any
(f) Applicable sections of Subpart ZZZZ
(g) Any notifications required in accordance with §63.6645 and the respective due dates in Applicable sections of Subpart ZZZZ
(h) Exemptions, if any, from the requirements of Subpart ZZZZ and/or Subpart A.

Pursuant to 40 CFR 63 Subpart A and §63.10(b)(3), for affected stationary RICE which are exempted from the requirements of Subpart ZZZZ or the requirements of Subpart A, the permittee shall maintain documentation which demonstrates the affected stationary RICE's exemption.

Pursuant to §63.6590(b), existing emergency and existing limited use stationary RICE with a site rating of more than 500 brake HP do not have to meet the requirements of Subpart ZZZZ, Subpart A and permit conditions 2.18.2 through 2.18.7.

Further permit conditions for emergency stationary RICE that are less than or equal to 500 HP are listed in conditions 2.18.2 through 2.18.7.

Permit conditions for non-emergency stationary RICE are listed in the respective INL-site facility sections (i.e., non-emergency COM-UTI-616 air compressor at INTEC and non-emergency engines TRA-674-M-6, TRA-670-M-42, and TRA-670-M-43 at ATR Complex), except that permit condition 2.18.8 (Other Requirements and Information, also known as Subpart A general provisions) is applicable to all INL-site non-emergency stationary RICE unless otherwise exempted by Subpart ZZZZ.

Refer to FRA form for in Appendix C of this statement of basis for more information regarding , monitoring, reporting, and recordkeeping requirements of this subpart.

40 CFR 63 Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters . This subpart is known as "The Boiler MACT."

Refer to Permit Condition 2.13

## 6.7 CAM Applicability (40 CFR 64)

According to the supplemental information that DEQ received from INL on May 13, 2010, there are no sources currently identified in the Tier I operating permit are subject to Compliance Assurance Monitoring (CAM). Some sources at the INL are equipped with, and may use, a control device to achieve compliance with the underlying applicable requirements; no source using these devices has pre-control emissions greater than major source thresholds. All emission estimates were described in the appropriate PTC application at the time of permitting, and those activities remain bounded by those estimates.

## 6.8 Acid Rain Permit (40 CFR 72-75)

This facility is not an affected facility as defined in 40 CFR 72 through 75; therefore, acid rain permit requirements do not apply.

# 7. PUBLIC COMMENT

As required by IDAPA 58.01.01.364, a public comment period was made available to the public from November 15, 2012 to December 17, 2012. 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 F of this statement of basis for the comments received and DEQ's response to the comments.

## 8. 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 December 19, 2012 via e-mail. On January 29, 2013, EPA notified DEQ in a letter that they will not be reviewing the proposed permit action and will not object to its issuance. In the letter EPA stated the following: "the permit is now eligible for issuance."

# APPENDIX A – GRAIN LOADING CACULATIONS

# BOILER GRAIN LOADING CALCULATIONS
# FOR
# # 1, # 2, and # 4 FUEL OIL, and JP-4 OR JP 8

## *Emission factors from AP-42, Section 1.3-1*

# 2 Fuel Oil: 2lb PM/$10^3$gal - all boiler sizes

# 4 Fuel Oil: 7 lb PM/$10^3$gal - all boiler sizes

Assuming Fuel Oil No. 1 JP-4 and JP-8 emissions are equal to or less than PM emissions from combusting # 2 fuel oil. Aviation fuel (JP-4 and JP-8) is from a higher distillation level than diesel fuel and thus it can be inferred that lower particulate matter emissions will result from its combustion.

## *Discussion on Boilers*

Based on AP-42 PM emissions in pounds per hour (lb/hr) are directly proportional to fuel burned, fuel type and independent of the emission unit.

Using the attached combustion evaluations, exhaust flow in dscfm @ 3% $O_2$ is directly proportional to fuel burned, and independent of emission unit.

For example, if fuel use increases by a factor of 10, then emissions and exhaust flow increase by a factor of 10. Therefore, it is necessary to demonstrate compliance with grain loading emissions limit for only one fuel burning rate for each fuel type.

**# 2 Fuel Oil (No. 1, JP-4 or JP-8)**

$$2\frac{lbPM}{10^3\,gal}\left(100\frac{gal}{hr}\right)\left(\frac{hr}{60\,\text{min}}\right)\left(\frac{7000gr}{lb}\right)=23.3\frac{gr}{\text{min}}$$

From combustion evaluation at 100 gal/hr:

Q (flow rate) = 2981.6 acfm @ 3% $O_2$

23.3 gr/min / 2981.6 ft 3/min = 0.0078 gr/dscf@3% $O_2$

**# 4 Fuel Oil**

$$7\frac{lbPM}{10^3\,gal}\left(100\frac{gal}{hr}\right)\left(\frac{hr}{60\,\text{min}}\right)\left(\frac{7000gr}{lb}\right)=81.66\frac{gr}{\text{min}}$$

From combustion evaluation at 100 gal/hr:

Q = 3144.4 @ 100 gal/hr dscfm@ 3% $O_2$;

$$81.66\frac{gr}{\text{min}}\Big/\,3144.4\frac{ft^3}{\text{min}}=0.0026\,acfm\,@\,3\%O_2$$

# APPENDIX B – UNDERLYING PERMIT HISTORY

# INL Permits List - Updated version 9/8/2011

=Initial Permit | =Same Permit

*Status: A=Active S=Superseded E=Exempt AD=Applicability Determination T=Terminated*

| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| All | | | | | | | | Only some of the PTC Exemptions at the INL are included on this list. Typically this only includes exemptions for which information was found in the DEQ files. All PTC Exemptions at the INL are not included on this list because, in accordance with the Rules, DOE is not required to send copies of self exemptions to DEQ. | |
| MFC (ANL-W) | | Auxiliary Diesel Engine for an Emergency Fire Pump | | | 12/28/88 | | PTC EXEMPTIONS<br>PTC Exemption Determination | Tech memo, but no letter to facility available | E |
| MFC | Irradiated Materials Characterzation Laboratory | Gloveboxes, Hoods | 60891 | P-2011.0113 | 1/31/12 | 1/31/2012 | Initial Permit - IMCL | Status: Active | A |
| MFC | Fuel Manufacturing Facility | Gloveboxes, Hoods | 60807 | P-2011.0077 | 4/8/11 | 4/8/2011 | Initial Permit - FMF | Status: Active | A |
| MFC | Fuel Manufacturing Facility | Gloveboxes, Hoods | 60910 | P-2011.0077 | 9/28/11 | 4/8/2011 | Clarification of existing permit conditions | Letter issued by DEQ specifies exactly which HEPA filters are subjsct to this permit | A |
| ANL-W | Hot Fuel Examination Facility | Building Exhaust System, Air Cell System, Argon Cell System, Contaminated Liquid Collection System, Diesel Generators | | 0140-0022 | 12/5/89 | | Initial Permit | | S |
| ANL-W | Hot Fuel Examination Facility | Pyrometallurgical Fuel Regeneration for the EBR-II | | 0140-0022 | 11/29/89 | | Conditional PTC for modifications to the Hot Fuel Examination Facility | | S |
| ANL-W | Hot Fuel Examination Facility | Argon Cell System | 88017 | 0140-0022 | 7/19/90 | | PTC Modification | | S |
| ANL-W | Hot Fuel Examination Facility | WIPP Waste Characterization Final Design Changes | | 0140-0022 | 3/12/91 | | PTC Modification Determination<br>No Modification Required | | AD |
| ANL-W | Hot Fuel Examination Facility | Hot Fuel Examination Facility/South now known as Fuel Cycle Facility | P-920205 | 0140-0022 | 5/13/92 | | PTC Modification Determination<br>No Modification Required | | AD |
| ANL-W | Fuel Cycle Facility | WIPP Waste Characterization | P-920611 | 0140-0022 | 1/15/93 | | PTC Modification Determination<br>No Modification Required | | AD |
| ANL-W | Fuel Cycle Facility | Depleted Uranium Equipment Testing | P-921209 | 0140-0022 | 2/26/93 | | PTC Modification Determination<br>No Modification Required | | AD |
| ANL-W | Fuel Conditioning Facility | Building Exhaust System, Air Cell System, Argon Cell System, Contaminated Liquid Collection System, Diesel Generators | P-9600128 | 0140-0022 | 10/28/96 | | PTC Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| ANL-W | Fuel Conditioning Facility | Air Cell System, Hot Repair Area | P-000502 | 011-00022, formerly 0140-0022 | 6/26/00 | | PTC Modification | Reactivation of Hot Repair Area | S |
| ANL-W | Fuel Conditioning Facility | Building Exhaust System, Air Cell System, Argon Cell System | P-000536 | 011-00022 | 5/4/01 | | PTC Modification | Status: superseded by PTC No. P-2007.0043. Administrative amendment to reflect current operating conditions | S |
| ANL-W | Fuel Conditioning Facility | Building Exhaust System, Air Cell System, Argon Cell System | P-000536 | 011-00022 | 5/9/01 | | PTC Modification | Status: superseded by PTC No. P-2007.0043. Administrative corrections and clarifications to reflect current operating conditions and regulatory requirements | S |

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=Initial Permit =Same Permit

*Status: A=Active S=Superseded E=Exempt AD=Applicability Determination T=Terminated*

| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| MFC (ANL-W) | Fuel Conditioning Facility | Building Exhaust System, Air Cell System, Argon Cell System | P-2007.0043 | P-2007.0043 | 6/22/2007 | 6/22/2007 | PTC Modification | Status: Superseded. This permit was superseded by P-2008.0073 issued on 6/10/08. This PTC was for new fuel fabrication capabilities, to delete 30-day and annual processing limits, to delete 10-15% headvy metal burnup requirment for fuel treatment. | S |
| MFC (ANL-W) | Fuel Conditioning Facility | Building Exhaust System, Air Cell System, Argon Cell System | P-2008.0073 | P-2008.0073 | 6/10/2008 | 6/10/2008 | PTC Revision to remove references to "inlet" HEPA filters that protect against backflow contamination but are not part of the exhaust/emmissions from this facility | Status: Active. | A |
| ANL-W | TREAT | Experimental Introduction of Helium Into TREAT | 89081 | | 12/6/89 | | PTC Applicability Determination No PTC Required | | E |
| ANL-W | TREAT | Plasma Hearth Process, Bench-Scale Experimental Unit | | 011-00022 | 2/2/96 | | Initial Permit | Status: S. | S |
| ANL-W | TREAT | Plasma Hearth Process, Bench-Scale Experimental Unit | | 011-00022 | 5/6/96 | | PTC Modification | Status: S. Monitoring, Recordkeeping, and Reporting Requirements Added | S |
| ANL-W | TREAT | Plasma Hearth Process, Bench-Scale Experimental Unit | P-9600128 | 011-00022 | 10/28/96 | | PTC Modification | Status: S. Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| ANL-W | TREAT | Plasma Hearth Process, Bench-Scale Experimental Unit | | 011-00022 | 3/7/03 | | PTC Termination | Status: PTC has been terminated. Equipment being dismantled, process eliminated | T |
| ANL-W | Utility Paint Spray Booth | Binks Model #14-10 Exhaust Chamber | | 0140-0022 | 2/19/90 | | Initial Permit | Status: Superseded by PTC P-020503 issued 2/20/03. | S |
| ANL-W | Utility Paint Spray Booth | Binks Model AA-530 (or equal) Exhaust Chamber | | 0140-0022 | 2/21/92 | | Modified PTC | Status: Superseded by PTC P-020503 issued 2/20/03 | S |
| ANL-W | Utility Paint Spray Booth | Binks Model #14-10 Exhaust Chamber | | 0140-0022 | 8/23/93 | | Modified PTC | Status: Superseded by PTC P-020503 issued 2/20/03 | S |
| ANL-W | Utility Paint Spray Booth | | P-020503 | 023-00022, formerly 0140-0022 | 8/23/93 | | PTC Termination Denial | Existing PTC stays in effect | AD |
| MFC | Utility Paint Spray Booth | Materials and Fuels Complex (MFC) | P-020503 | 011-00022 | 2/20/03 | 2/20/2003 | Modified PTC | Status: Active | A |
| ANL-W | CREARE Furnace Pilot Plant | CREARE Furnace Pilot Plant | P-900805 | | 8/15/90 | | PTC Applicability Determination No PTC Required-Below Regulatory Concern | | E |
| ANL-W | ANL-W | One exempt generator | | | 4/4/90 | 4/4/1990 | PTC Exemption Determination | Generator is exempt under condition that it is not used more than 22 hr/yr | S |
| MFC | MFC | One exempt generator | X-2010.0079 60526 | n/a | 7/16/10 | 7/16/2010 | PTC Exemption Update | Under current rules the generaror may be operated up to 500 hr/yr for maintenance | E |
| ANL-W | Emergency Diesel Generators | Emergency Diesel Generators | P-901008 | | 11/19/90 | | PTC Exemption Determination Project is Exempt | | E |
| ANL-W | Portable Generator | Portable Generator | P-931219 | | 3/4/94 | | PTC Applicability Determination No PTC Required-Below Regulatory Concern | | E |
| ANL-W | Building 753 | Glass Bead Surface Blaster | P-940112 | | 3/7/95 | | PTC Exemption Determination Project is Exempt | | E |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| ANL-W | Sodium Process Facility | Sodium Melting and Draining Room, 799-009; Process Vent, 799-010; Roof Vents, 799-011/012; Caustic Storage Tank Vent, 799-013; Barrel Wash Pad, 799-014; Carbonate Process Vent, 799-015 | P-950072 | 011-00022 | 9/29/95 | | Initial Permit | | S |
| ANL-W | Sodium Process Facility | Sodium Melting and Draining Room, 799-009; Process Vent, 799-010; Roof Vents, 799-011/012; Caustic Storage Tank Vent, 799-013; Barrel Wash Pad, 799-014; Carbonate Process Vent, 799-015 | P-950241 | 011-00022 | 2/13/96 | | PTC Modification | Radionuclide Emissions Limit Amendment | S |
| ANL-W | Sodium Process Facility | Sodium Melting and Draining Room, 799-009; Process Vent, 799-010; Roof Vents, 799-011/012; Caustic Storage Tank Vent, 799-013; Barrel Wash Pad, 799-014; Carbonate Process Vent, 799-015 | P-9600128 | 011-00022 | 10/28/96 | | PTC Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| ANL-W | Sodium Process Facility | Sodium Melting and Draining Room, 799-009; Process Vent, 799-010; Roof Vents, 799-011/012; Caustic Storage Tank Vent, 799-013; Barrel Wash Pad, 799-014; Carbonate Process Vent, 799-015 | P-970013 | 011-00022 | 3/28/97 | | PTC Modification | Control Equipment Modification | S |
| ANL-W | Sodium Process Facility | Sodium Melting and Draining Room, 799-009; Process Vent, 799-010; Roof Vents, 799-011/012; Caustic Storage Tank Vent, 799-013; Barrel Wash Pad, 799-014; Carbonate Process Vent, 799-015 | P-000501 | 011-00022 | 5/12/00 | | PTC Modification | New HEPA Filter Media | S |
| ANL-W | Sodium Process Facility | Sodium Melting and Draining Room, 799-003; Process Vent, 799-010; Roof Vents, 799-011/012; Barrel Wash Pad, 799-014; Drum Filling and Storage Area Vent, 799-015; Sodium Tanks Vent, 799-016 | P-000504 | 011-00022 | 9/26/00 | | PTC Modification | Cover letter to this permit modification metioned a Sodium Process Facility PTC issued on July 17, 2000. That permit was subsequently revised There is no record of this permit in State Office files. | A |
| ANL-W | Contaminated Equipment Storage Building 794 | Waste Characterization | P-980005 | | 2/27/98 | | Conditional PTC Exemption | | E |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| CFA | 608 | Cleaver Brooks Spaceheating Boiler CB200-50-15 | | 0340-0001 | 5/12/87 | | Initial Permit | | S |
| CFA | 609 HQ/SRT | Cleaver Brooks Spaceheating Boiler CB200-50-15 | | 0340-0001 | 6/4/87 | | PTC Modification | Correct Building CFA 608 in Initial Permit to Correct Building, CFA 609 HQ/SRT | S |
| CFA | 609 HQ/SRT | Cleaver Brooks Boiler CB-101-50 | | 023-00001 | 12/5/95 | | PTC Modification | Status: Superseded by PTC No. P-060518. Modified PTC 0340-0001 for the pending Tier I OP and the latest INEEL PSD analysis. Boiler ID, emission factors, emission limits, and fuel use limit were changed. | S |
| CFA | 609 HQ/SRT | Cleaver Brooks Boiler CB-101-50 | | 023-00001 | 2/14/96 | | PTC Modification | Status: Superseded by PTC No. P-060518. Allow use of JP-4 & JP-8 fuels | S |
| CFA | 609 HQ/SRT | Cleaver Brooks Boiler CB-101-50 | | 023-00001 | | | PTC Termination Request<br>No Exemption or Termination Allowed | On 12/23/02 BWXT requested termination of the PTC and reclassification to "exempt" status. DEQ denied the request in February, 2003. See DEQ's 7/14/03 Ltr to BWXT Idaho | AD |
| CFA | 609 HQ/SRT | Boiler CFA-609-005, Cleaver Brooks Boiler Model CB-101-50 | P-060518 | 023-00001 | 1/10/07 | | PTC Modification | Status: Active. Increase allowable fuel input and PM | A |
| CFA | Indoor Pistol Range Firing Cente | Indoor Pistol Range Firing Center | | | 9/19/88 | | PTC Applicability Determination<br>No PTC Required | | E |
| CFA | Diesel Firewater Pumps | Diesel Firewater Pumps | P-921103 | | 11/12/92 | | PTC Applicability Determination<br>No PTC Required | Tech memo, but found no letter | E |
| CFA | Transportation Complex | Transportation Complex | P-931004 | | 2/9/94 | | PTC Applicability Determination<br>No PTC Required | Below Regulatory Concern | E |
| CFA | Portable Diesel Generators | Portable Diesel Generators | P-940029 | | 2/18/94 | | PTC Applicability Determination<br>No PTC Required | Below Regulatory Concern | E |
| CFA | Radiological and Environmental Sciences Lab | Lab Equipment | P-940196 | | 10/19/94 | | PTC Exemption Determination | | E |
| CFA | Radiological and Environmental Sciences Lab | Lab Equipment | P-950220 | | 11/20/95 | | PTC Exemption Determination | Categorical Exemption | E |
| General Site-Wide | Archeological Research Activities | Portable Internal Gasoline Combusted Electrical Generators | P-910814 | | 8/21/91 | | PTC Applicability Determination<br>No PTC Required | Below Regulatory Concern | E |
| General Site-Wide | Liquid Calcium Nitrate Tanks | Liquid Calcium Nitrate Tanks | P-910804 | | 9/3/91 | | PTC Applicability Determination<br>No PTC Required | Below Regulatory Concern | E |
| General Site-Wide | UST Installation | UST Installation | | | 11/26/91 | | PTC Applicability Determination<br>No PTC Required | | E |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| General Site-Wide | Various Sites | Diesel Generators | P-930206 | | 2/26/93 | | PTC Applicability Determination No PTC Required | Below Regulatory Concern | E |
| General Site-Wide | Site-wide | Air Monitoring Test Conducted by NOAA | P-930418 | | 4/22/93 | | PTC Exemption Determination | Toxics released during monitoring tests | E |
| General Site-Wide | Site-wide | Tracer Study Test Conducted by NOAA | | | 11/22/93 | | PTC Exemption Determination | Release sulfur dioxide and methyl chloride during tracer study | E |
| General Site-Wide | Site Characterization Activities | RCRA Satellite Accumulation Areas and Temporary Accumulation Areas | P-980129 | | 3/5/99 | | PTC Exemption Determination | Category II Exemption | E |
| General Site-Wide | Radiological Source Operations | Radiological Sources | P-990129 | | 3/17/00 | | DEQ Approval Required for Category I Exemptions | | E |
| General Site-Wide | Site-wide | All Emissions Units | T1-030520 | T1-030520 | 6/28/05 | 6/28/2005 | Initial Tier I (Title V) Operating Permit | Status: Superseded. This permit was superseded by T1-060508 | S |
| General Site-Wide | Site-wide | All Emissions Units | T1-060508 | T1-060508 | 6/6/06 | | Administrative Amendment; name changes, minor corrections | Status: Superseded. This permit was superseded by T1-060519 | S |
| General Site-Wide | Site-wide | All Emissions Units | T1-060519 | T1-060519 | 1/10/07 | | Administrative Amendment; incorporate P-060518 & P-060512 | Status: Superseded. This permit was superseded by T1-060521 issued 10/23/07 | S |
| General Site-Wide | Site-wide | All Emissions Units | T1-060521 | T1-060521 | 10/23/07 | 10/23/2007 | T1 Operating Permit Administrative Amendment; replaces T1-060519 | Status: Superseded. This pmt was superseded by T1-2008.0144 issued 9-30-08 | S |
| General Site-Wide | Site-wide | All Emissions Units | T1-2008.0144 | T1-2008.0144 | 9/30/08 | 9/30/2008 | Administrative Amendment; change TRA name to be Advanced Test Reactor Complex (ATR) | Status: Superseded. This pmt was superseded by T1-2009.0114 issued 10/30/09 | S |
| General Site-Wide | Site-wide | All Emissions Units | T1-2009.0114 | T1-2009.0114 | 10/30/09 | 10/30/2009 | Administrative Amendment to incorporate PTC No. P-2008.0199 issued 8-31-09 for INTEC IWTU. | Status: Active | A |
| General Site-Wide | Site-wide | All Emissions Units | T1-2009.0148 | T1-2009.0148 | draft-pending | draft- pending | Tier I Permit Renewal | This permit is currently in the draft permit stage. | ? |
| ICPP | Coal-Fired Steam Generation Facility | Two Coal-FiredAFBC Boilers | | PSD-X81-11 | 6/5/81 | | PSD Permit Issued by EPA Initial Permit | | S |
| ICPP | Coal-Fired Steam Generation Facility | Two Coal-FiredAFBC Boilers | | PSD-X81-11 | 2/14/94 | | PSD Permit Modified by EPA | These boilers no longer exist at the INL, thererefore, the permit is no longer in effect | T |

# INL Permits List - Updated version 9/8/2011

=Initial Permit | =Same Permit

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| ICPP | Fuel Processing Restoration Project | Fluorinel and Storage Facility, Fuel Processing Restoration Facility, New Waste Calcining Facility, All Other Sources of NOx Emissions | | 0340-0001-300 | 5/20/88 | | Initial Permit. | Status: Superseded by P-020521 PTC issued 12-1-03. | S |
| ICPP | Fuel Processing Restoration Project | ANL-W Boilers 1, 2, 3, and 4 | P-88079 | 0340-0001-300 | 8/11/89 | | PTC Modification | NOx Emission Limit Increases for ANL-W Boilers | ? |
| ICPP | Fuel Processing Restoration Project | NOx Abatement Pilot Plant | | | 6/14/88 | 9/1/1988 - 12/1/1988 | Conditional PTC Exemption Determination | | E |
| ICPP | Fuel Processing Restoration Project | NOx Abatement Pilot Plant | | | 11/30/88 | Extended to 1/1/1989 | Conditional PTC Exemption Determination Extension | | E |
| ICPP | Fuel Processing Restoration Project | NOx Abatement Pilot Plant | | | 4/12/89 | 4/12/1989 - 4/12/1990 | PTC Exemption Determination | | E |
| ICPP | Fuel Processing Restoration Project | NOx Abatement Pilot Plant | | 0340-0001-300 | 11/17/89 | | PTC Exemption Renewal Determination | Since the NOx Abatement Pilot Plant is permitted under the FPR Permit, PTC 0340-0001-300, no PTC Exemption Renewal is required | AD |
| ICPP | Fuel Processing Restoration Project | New Waste Calcining Facility | P-930204 | 0340-0001-300 | 3/5/93 | | PTC Modification Determination No Modification Needed | Pre-filter bypass of the Main Stack Atmospheric Protection System | AD |
| ICPP | ICPP Nitrogen Oxide Sources | Fluorinel and Storage Facility, LET&D, Ventilation Air System, and Process Off-Gas System, and INEL-Wide NOx Sources | | 023-00001 | 11/17/94 | | PTC Modification | Updating Title of Permit, Permit Number, and Revising Sources | S |
| ICPP | ICPP Nitrogen Oxide Sources | Fluorinel and Storage Facility, LET&D, Ventilation Air System, and Process Off-Gas System, and INEL-Wide NOx Sources | | 023-00001 | 2/13/95 | | PTC Modification | Removal of one piece of equipment, the FAST main ventilation filtration system | S |
| ICPP | ICPP Nitrogen Oxide Sources | Fluorinel and Storage Facility, LET&D, Ventilation Air System, and Process Off-Gas System, and INEL-Wide NOx Sources | P-9600128 | 023-00001 | 10/28/96 | | PTC Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| ICPP | ICPP Nitrogen Oxide Sources | Fluorinel and Storage Facility, LET&D, Ventilation Air System, and Process Off-Gas System, and INEL-Wide NOx Sources | P-970123 | 023-00001 | 2/20/98 | | PTC Modification | Amend NOx Sources due to Up-coming Closure of the Waste Calcining Facility | S |
| INTEC | INTEC Nitrogen Oxide Sources | Fluorinel and Storage Facility, LET&D, Ventilation Air System, and Process Off-Gas System, and INEL-Wide NOx Sources | P-980062 | 023-00001 | 10/18/99 | | PTC Modification | Status: Superseded by P-020521 PTC issued 12-1-03. Administrative Amendments and to Change Name from Idaho Chemical Processing Plant to Idaho Nuclear Technology and Engineering Center | S |
| INTEC | INTEC Nitrogen Oxide Sources | Fluorinel and Storage Facility, LET&D, Ventilation Air System, and Process Off-Gas System, and INEL-Wide NOx Sources | P-020521 | 023-00001 | 12/1/03 | | PTC Modification | Status: Superseded by P-2011.0124. INTEC B-601, INTEC B-602, INTEC B-604, INTEC B-605, and CFA 668 B-31 have been removed. The NOx monitoring network was removed from service. | S |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| INTEC | INTEC NOx Sources | Fluorinel and Storage Facility, LET&D, Ventilation Air System, and Process Off-Gas System | 60932 | P-2011.0124 | 12/30/11 | 12/30/2011 | PTC Modification | Nox sources that no longer exist were removed from permit | A |
| ICPP | CPP-637 Waste Management Development Laboratory | Acid Fractionator Pilot Plant | | | 6/14/88 | Six Experiments to be conducted before 1/1/1989 | PTC Exemption Determination | | E |
| ICPP | Hazardous Chemical Handling Facility | Tanks VES-HBF-105, VES-HBF-104, and VES-HBF-103 | | 0340-0001 | 8/1/88 | | Initial Permit | | T |
| INTEC | Hazardous Chemical Handling Facility | Tanks VES-HBF-105, VES-HBF-104, and VES-HBF-103 | P-000522 | 0340-0001 | 7/27/00 | | Permit Cancellation | | T |
| ICPP | Service Waste Upgrade System, CPP-1749 | Auxiliary Diesel Powered Pump | | | 2/2/89 | | PTC Exemption Determination | | E |
| ICPP | CPP-637 Waste Management Development Laboratory | Acid Fractionator Pilot Plant | P-88038 | | 10/4/89 | 21 Experiments to be conducted before 12/31/1990 | PTC Exemption Determination | | E |
| ICPP | CPP-637 Waste Management Development Laboratory | Acid Fractionator Pilot Plant | P-89038 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-637 Waste Management Development Laboratory | 15-cm Enclosed Calciner Pilot Plant | P-89008 | | 10/4/89 | 8 runs to be conducted before 12/31/0990 | PTC Exemption Determination | | E |
| ICPP | CPP-637 Waste Management Development Laboratory | 15-cm Enclosed Calciner Pilot Plant | P-89008 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-637 Low Bay Laboratory | 10-cm Enclosed Calciner Pilot Plant | P-89001 | | 10/4/89 | 12 runs to be conducted before 12/31/1990 | PTC Exemption Determination | | E |
| ICPP | CPP-637 Low Bay Laboratory | 10-cm Enclosed Calciner Pilot Plant | P-89001 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-637 Low Bay Laboratory | Solvent Cleanup Pilot Plant | P-88037 | | 10/4/89 | 110 hours to be completed by 12/31/1990 | PTC Exemption Determination | | E |
| ICPP | CPP-637 Low Bay Laboratory | Solvent Cleanup Pilot Plant | P-88037 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |

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|---|---|---|---|---|---|---|---|---|---|
| ICPP | CPP-637 Waste Management Development Laboratory | 30-cm Enclosed Calciner Pilot Plant | P-88063 | | 10/5/89 | 6 runs to be conducted by 12/31/1990 | PTC Exemption Determination | | E |
| ICPP | CPP-637 Waste Management Development Laboratory | 30-cm Enclosed Calciner Pilot Plant | P-89063 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-637 Low Bay Laboratory | Cold Feed Makeup Dissolution Facility Plant | P-89005 | | 10/10/89 | 12 dissolutions to be conducted by 12/31/1990 | | | E |
| ICPP | CPP-637 Low Bay Laboratory | Cold Feed Makeup Dissolution Facility Plant | P-89005 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-637 High Bay Laboratory | FPR Evaporator Pilot Plant | P-88039 | | 10/16/89 | 10/16/1989 - 10/16/1990 | Conditional PTC Exemption | | E |
| ICPP | CPP-637 High Bay Laboratory | FPR Evaporator Pilot Plant | P-88039 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-637 Waste Management Development Laboratory | PEW Evaporator Pilot Plant | P-88041 | | 10/16/89 | 10/16/1989 - 10/16/1990 | Conditional PTC Exemption | | E |
| ICPP | CPP-637 Waste Management Development Laboratory | PEW Evaporator Pilot Plant | P-88041 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |
| ICPP | Fluoric Acids Supply System | Hydrofluoric and Fluoboric Acid Bulk Storage Filtering and Associated Acid Transfers; Source Descriptions SCR-CS-169 stack, SCR-FG-180 Stack, and FAST stack | P-88054 | 0340-0001 | 3/12/90 | | Initial Permit | Status: Permit was terminated by letter issud by DEQ on 2/20/03. | S |
| ICPP | Fluoric Acids Supply System | Hydrofluoric and Fluoboric Acid Bulk Storage Filtering and Associated Acid Transfers; Source Descriptions SCR-CS-169 stack, SCR-FG-180 Stack, and FAST stack | P-88054 | 0340-0001 | 10/2/90 | | PTC Amendment | Status: Permit was terminated by letter issud by DEQ on 2/20/03 | S |
| ICPP | Fluoric Acids Supply System | FAST stack | | 0340-0001 | 6/6/94 | | PTC Amendment | FAST Stack Monitor Filter Change Frequency from Daily to Monthly | T |
| ICPP | Fluoric Acids Supply System | Hydrofluoric and Fluoboric Acid Bulk Storage Filtering and Associated Acid Transfers; Source Descriptions SCR-CS-169 stack, SCR-FG-180 Stack, and FAST stack | P-020522 | 0340-0001 | 2/20/03 | | PTC Termination | DEQ letter was issued on 2/20/03 to terminate the Fluoric Acid Supply System PTC and its amendment issued on 3/12/90 and 10/2/90. | T |
| ICPP | ICPP | Diesel Pump for Firewater | P-900406 | | 4/10/90 | | PTC Exemption Determination | | E |
| ICPP | CPP-637 Low Bay Laboratory | Electrolytic Dissolver Pilot Plant | P-89003 | | 5/4/90 | 5/4/1990 - 12/31/1990 | Conditional PTC Exemption | | E |
| ICPP | CPP-637 Low Bay Laboratory | Electrolytic Dissolver Pilot Plant | P-89003 | | 12/4/90 | 1/1/1991-12/31/1991 | PTC Exemption Extension | | E |

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|---|---|---|---|---|---|---|---|---|---|
| ICPP | CPP-637 High Bay Laboratory | Fluorinel Pilot Plant/Fountain Dissolver Mockup | P-88092 | | 5/4/90 | 5/4/1990 - 12/31/1990 | Conditional PTC Exemption | | E |
| ICPP | CPP-637 High Bay Laboratory | Fluorinel Pilot Plant/Fountain Dissolver Mockup | P-88092 | | 12/4/90 | 1/1/1991- 12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-637 High Bay Laboratory | Solvent Extraction Pilot Plant | P-89009 | | 5/4/90 | 5/4/1990 - 12/31/1990 | Conditional PTC Exemption | | E |
| ICPP | CPP-637 High Bay Laboratory | Solvent Extraction Pilot Plant | P-89009 | | 12/4/90 | 1/1/1991- 12/31/1991 | PTC Exemption Extension | | E |
| ICPP | CPP-606 | Demineralizer Unit and Chemical Neutralizing System | P-910207 | | 3/25/91 | | PTC Applicability Determination No PTC Required | | E |
| ICPP | Hazardous Chemical Storage Facility | Hazardous Chemical Storage Facility | P-910314 | | 4/18/91 | | PTC Applicability Determination No PTC Required | Below Regulatory Concern | E |
| ICPP | Geological Drilling Activities | Portable Gasoline Generators | P-910701 | | 7/7/91 | | PTC Applicability Determination No PTC Required | Below Regulatory Concern | E |
| ICPP | CPP 637 Low Bay Laboratory, Waste Management Development Laboratory, High Bay Laboratory, | ICPP Pilot Plants: 10-cm Enclosed Calciner, 15-cm Enclosed Calciner, 30-cm Enclosed Calciner, Solvent Cleanup, Acid Fractionator Pilot Plant, FPR Evaporator, Electrolytic Dissolver, Solvent Extraction, PEW Evaporator, Cold Feed Makeup Dissolution Facility, Fluorinel Pilot PLant/Fountain Dissolver Mockup, Calcine Grinder Set-Up, Press Can Filling Set-up, Blending Transport Enclosure, High Bay Facility Storage and Mixing Tanks, Cold Zirconium Feed Storage Facility | P-901209 | 0340-0001 | 3/3/92 | | Initial Permit | | S |
| ICPP | CPP-637 | ICPP Pilot Plants: 10-cm, 15-cm, and 30-cm Calciners; High Bay Facility Mixing Tanks | P-960032 | 023-00001 | 6/18/96 | | Permit Modification | Sources Modified, and permit number updated | S |
| ICPP | CPP-637 | ICPP Pilot Plants | P-960032 | | 6/18/96 | | PTC Exemption Determination | Acid Fractionator, Solvent Extraction, Cold Feed Makeup Dissolution Facility, Calcine Grinder Setup, Blending Transport Enclosure, Gravity and Pneumatic Transport, High Bay Facility Storage Tanks, and Cold Zirconium Feed Storage Facility Pilot Plants all issued Exemptions | E |
| ICPP | CPP-637 | ICPP Pilot Plants: 10-cm, 15-cm, and 30-cm Calciners; High Bay Facility Mixing Tanks | P-960097 | 023-00001 | 8/8/96 | | Permit Modification | Administrative Amendments | S |
| ICPP | CPP-637 | ICPP Pilot Plants: 10-cm, 15-cm, and 30-cm Calciners; High Bay Facility Mixing Tanks | P-9600128 | 023-00001 | 10/28/96 | | Permit Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | ? |
| ICPP | Hexone Storage and Transfer Facility | Hexone Storage and Transfer Facility | P-920104 | | 2/13/92 | | PTC Applicability Determination No PTC Required | Below Regulatory Concern | E |

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|---|---|---|---|---|---|---|---|---|---|
| ICPP | Liquid Effluent Treatment and Disposal System | Alterations in the LET&D system | P-911107 | | 3/9/92 | | PTC Applicability Determination No PTC Required | | E |
| ICPP | CPP-603 Annex | Chloride Removal System Decommissioning | | | 6/2/92 | | PTC Applicability Determination No PTC Required | | E |
| ICPP | CPP-653 | Low-Speed High-Torque Paper Shredder | P-920808 | | 9/2/92 | | PTC Applicability Determination No PTC Required | | E |
| ICPP | High Level Waste Tank Farm | High Level Waste Tank Farm Replacement | P-920905 | | 11/10/92 | | Conditional PTC Exemption | | E |
| ICPP | Fuel Storage Area | Rack Reconfiguration Project | | 023-00001 | 4/5/96 | | Initial Permit | Reconfiguration of FSA pools #1, #5, and #6, with all releases venting through FAST stack | T |
| ICPP | Fuel Storage Area | Rack Reconfiguration Project | P-950228 | 023-00001 | 5/7/96 | | PTC Amendment | Administrative Changes | T |
| ICCP | Fuel Storage Area | Rack Reconfiguration Project | O-2010.0074 | 023-00001 | 7/29/10 | 7/29/2010 | PTC Termination | Construction was complete and stopped in 1997. Tier I regulates sources under 40 CFR 61 Subpart H. PTC is expired and no longer necessary | T |
| ICPP | CPP-1619, Waste Storage Facility | Flammable Liquids Area, Mixed Waste Area, Hazardous Waste (Solid) Storage Area, Hazardous Waste Collection Area, and Hazardous Waste (Liquid) Storage Area, Forklift/Mechanical Room and Supplies, Office Area, and Liquid Waste Unloading Area | | 023-00001 | 6/7/93 | | Initial Permit | | S |
| ICPP | CPP-1619, Waste Storage Facility | Flammable Liquids Area, Mixed Waste Area, Hazardous Waste (Solid) Storage Area, Hazardous Waste Collection Area, and Hazardous Waste (Liquid) Storage Area, Forklift/Mechanical Room and Supplies, Office Area, and Liquid Waste Unloading Area | P-930803 | 023-00001 | 11/17/93 | | Permit Modification | Administrative Amendment to Accurately Describe the Processes | S |
| ICPP | CPP-1619, Waste Storage Facility | Flammable Liquids Area, Mixed Waste Area, Hazardous Waste (Solid) Storage Area, Hazardous Waste Collection Area, and Hazardous Waste (Liquid) Storage Area, Forklift/Mechanical Room and Supplies, Office Area, and Liquid Waste Unloading Area | | 023-00001 | 6/29/94 | | Permit Modification | Administrative Changes | S |
| ICPP | CPP-1619, Waste Storage Facility | Hazardous Waste (Solid) Storage Area, Hazardous Waste Collection Area, and Hazardous Waste (Liquid) Storage Area, Forklift/Mechanical Room and Supplies, Office Area, and Liquid Waste Unloading Area | | 023-00001 | 11/7/94 | | Permit Modification | Administrative Changes | S |
| ICPP | CPP-1619, Waste Storage Facility | Flammable Liquids Area, Mixed Waste Area, Hazardous Waste (Solid) Storage Area, Hazardous Waste Collection Area, and Hazardous Waste (Liquid) Storage Area, Forklift/Mechanical Room and Supplies, Office Area, and Liquid Waste Unloading Area | | 023-00001 | 7/7/95 | | Permit Modification | Change in source description of Hazardous Waste (Solid) Storage Area, and the Hazardous Waste Collection Area and Hazardous Waste (Liquid) Storage Area | S |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| ICPP | CPP-1619, Waste Storage Facility | Flammable Liquids Area, Mixed Waste Area, Hazardous Waste (Solid) Storage Area, Hazardous Waste Collection Area, and Hazardous Waste (Liquid) Storage Area, Forklift/Mechanical Room and Supplies, Office Area, and Liquid Waste Unloading Area | P-9600128 | 023-00001 | 10/28/96 | | Permit Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| ICPP | CPP-1619, Waste Storage Facility | Liquid Waste Unloading Area | P-970126 | 023-00001 | 4/4/98 | | Permit Modification | Status: PTC was termintated by DEQ letter issued on 7-18-07 (project No. 0-2007.0113). This permit replaced the earlier permit. | T |
| ICPP | Fluorinel Dissolver Pilot Plant Stack | Centrifugal Contactor Mockup Project | P-930902 | | 10/5/93 | | PTC Applicability Determination No PTC Required | Below Regulatory Concern | E |
| ICPP | Independent Spent Fuel Storage | Independent Spent Fuel Storage Installation | P-970030 | | 5/22/96 | | PTC Exemption Determination Categorically Exempt | | E |
| ICPP | Evaporator Tank System | Evaporator Tank System | P-960143 | | **12/2/96** | | Conditional PTC Exemption | Mentions an earlier 6/1/1994 exemption, but there is no record of it. | E |
| ICPP | New Waste Calcining Facility, Building CPP-679 | Decontamination Area-Debris Treatment Facility | P-970025 | 023-00001 | 5/20/97 | | Initial Permit | | T |
| ICPP | New Waste Calcining Facility, Building CPP-679 | Decontamination Area-Debris Treatment Facility | P-970104 | 023-00001 | 12/17/97 | | PTC Modification | Clarification of Emissions Units | T |
| ICPP | New Waste Calcining Facility, Building CPP-679 | High-Temperature Trial | P-980135 | 023-00001 | 2/3/99 | | PTC Modification Determination | No Permit Modification Needed | AD |
| ICPP | New Waste Calcining Facility, Building CPP-679 | High-Temperature Trial | P-990027 | 023-00001 | 3/16/99 | | PTC Modification Determination | Reiteration of PTC modification determination that High-Temperature Trial Burn will be allowed under existing permit | AD |
| INTEC | INTEC Boiler | Oil-Fired Steam Generating Boiler | P-990104 | | 8/27/99 | | Pre-Permit Construction Approval | Portable Boiler to be used to supply process and heating steam while Coal-Fired Steam Generating Facility is placed on standby | T |
| INTEC | INTEC Boiler | INTEC Portable Boiler Installation | P-990104 | 023-00001 | 9/29/99 | | Initial Permit | Removed from service- permit no longer effective. Refer to P-030505 issued 1/2/04 | T |
| INTEC | Building 616 | COM-YUI-616 Air Compressor | P-2007.0076 | P-2007.0076 | 9/12/07 | 39337 | Initial Permit | Status: Active | A |
| INTEC | INTEC Standby Boiler | INTEC Emergency Standby Boiler | P-000517 | | 4/27/00 | | PTC Exemption Determination | Category II Exemption | E |
| INTEC | Building CPP-606 | Building CPP-606 Distillate Oi-Fired Boilers and INTEC Distillate Oil-Fired Portable Boiler | P-000500 | 023-00001 | 6/26/00 | | PTC Modification for PTC 023-00001 for "Idaho Chemical Processing Plant NOx Sources" and Initial Permit for PTC 023-00001 "INTEC Portable Boiler" | | S |
| INTEC | Building CPP-606 | Building CPP-606, Four Distillate Oil-Fired Boilers | P-030505 | P-030505 | 1/21/04 | | PTC Modification | Status: Active. Removed portable boiler from service. | A |
| INTEC | Building CPP-1696 | Integrated Waste Treatment Unit (IWTU) | P-060520 | P-060520 | 5/3/07 | | Initial Permit | Status: Superseded by PTC No. P-2008.0199 | S |
| INTEC | Building CPP-1696 | Integrated Waste Treatment Unit (IWTU) | P-2008.0199 | P-2008.0199 | 8/31/2009 | 8/31/2009 | PTC Modification | Status: Active. Change throughput and design changes prior to construction | A |

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|---|---|---|---|---|---|---|---|---|---|
| IRC | Idaho Research Center | Diesel Pump for Firewater | P-900404 | | 4/5/90 | | PTC Exemption Determination | Exemption for 26 hours per year | E |
| IRC | Idaho Research Center | Radiotracer Use at the IRC | P-900204 | | 4/5/90 | | PTC Exemption Determination | | E |
| IRC | Idaho Research Center | Perchloric Hood Installation | P-910706 | | 9/12/91 | | Conditional PTC Exemption | | E |
| IRC | IRC Chemistry Laboratory | INEL Research Center Chemistry Laboratory Addition | P-910503 | | 3/16/92 | | Conditional PTC Exemption | | E |
| IRC | IRC Chemistry Laboratory | Hazardous Waste Storage/Staging Facility and Chemistry Laboratory Addition | P-920504 | | 7/27/92 | | PTC Exemption Determination | | E |
| IRC | IRC Craft Shop and Chemical Storage Building | IRC Craft Shop and Chemical Storage Building Relocation | P-940037 | | 6/16/94 | | PTC Exemption Determination | Category II Exemption | E |
| IRC | INEEL Engineering Demonstration Facility | Carbon-14 and Tritium Column Test | P-980019 | | 3/24/98 | | Conditional PTC Exemption | | E |
| IRC | Idaho Research Center | Radionuclide Sources | T1-010908 | 019-00048 | 10/29/05 | 10/29/2005 | Initial Tier I Operating Permit | | S |
| IRC | Idaho Research Center | T1 permit renewal-Radionuclide Sources | T1-050502 | 019-00048 | 11/15/06 | 11/15/2006 | | | T |
| IRC | Idaho Research Center | Tier I operating permit | 60863 | T1-050502 | 5/5/11 | 5/5/2011 | Tier I permit terminated since part 61 subpart H was never revised to require non-major sources to obtain a Title V operating permit. | Permit Terminated since the underlying basis for issuing a Tier I permit to this "minor source" doesn't exist. | T |
| NRF | AIW Plant | ZURN Temporary Steam Boiler | | 0340-0001 | 4/5/88 | | Initial Permit | | ? |
| NRF | NRF | Four exempt generators | | | 4/4/90 | 4/4/1990 | PTC Exemption Determination | Generators are exempt under condition that combined use of all four generators doesn't exceed 228 hr/yr | S |
| NRF | NRF | Four exempt generators | X-2010.0079 60526 | n/a | 7/16/10 | 7/16/2010 | PTC Exemption Update | Under current rules, each generaror may be operated up to 500 hr/yr for maintenance | E |
| NRF | Expended Core Facility, NRF 618 | Dry Cell Project Stack NRF-618-237 | | 023-00001 | 1/29/93 | | Initial Permit | | S |
| NRF | Expended Core Facility, NRF 618 | Dry Cell Project Stack NRF-618-237 | | 023-00001 | 5/24/96 | | PTC Modification | Eliminated Source Description, Modified Emission Limits, Edited Monitoring, Recordkeeping, and Reporting Requirements | S |
| NRF | Expended Core Facility, NRF 618 | Dry Cell Project Stack NRF-618-237 | P-960096 | 023-00001 | 7/22/96 | | PTC Modification | Letter and tech memo amend pages 4 and 5 of permit, but no record found of attached pages | S |
| NRF | Expended Core Facility, NRF 618 | Dry Cell Project Stack NRF-618-237 | P-9600128 | 023-00001 | 10/28/96 | | PTC Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| NRF | Expended Core Facility, NRF 618 | Dry Cell Project Stack NRF-618-237 | P-990086 | 023-00001 | 2/9/00 | | PTC Modification | Source Files have Cover Letter, but no PTC Attached. Letter Issued from Idaho Falls Regional Office | S |
| NRF | Expended Core Facility, NRF 618 | Dry Cell Project Stack NRF-618-237 | P-990086 | 023-00001 | 2/25/00 | | PTC Modification | PTC Issued on 2/9/2000 was not signed and had incorrect date on one page. This permit corrects these issues. | T |
| NRF | Expended Core Facility, NRF 618 | Dry Cell Project Stack NRF-618-237 | | 023-00001 | 3/7/03 | | PTC Termination | Equipment installation not completed, project terminated | T |

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|---|---|---|---|---|---|---|---|---|---|
| NRF | Plastisol/Metal Oven | Plastisol/Metal Oven | P-931012 | | 11/17/93 | | PTC Exemption Determination | Below Regulatory Concern | E |
| NRF | Industrial Waste Ditch and Landfill Areas | Industrial Waste Ditch - Operable Unit 8-07, and Landfill Areas - Operable Unit 8-05 and 8-06 | | | 9/7/94 | | PTC Exemption Determination | Tech memo, but no letter to facility available. Review of Record of Decision for analysis of violation of Air Rules | E |
| NRF | NRF | Railcar Paining Operations | 60783 | n/a | 3/23/11 | 1/21/2011 | PTC Exemption Determination | Project is exempt when conducted per limits listed in DEQ response letter | E |
| PBF | Buildings PBF-609 and PBF-612 | Waste Experimental Reduction Facility (WERF) and Waste Engineering Disposal Facility (WEDF) | | 0340-0001-11 | 10/21/87 | | Initial Permit | | T |
| PBF | Buildings PBF-609 and PBF-612 | Waste Experimental Reduction Facility (WERF) | P-960170 | 0340-0001-11 | 2/18/97 | | PTC Modification Determination No Modification Required | Incineration of PCB Contaminated Waste Streams already allowed in current permit | AD |
| PBF | Buildings PBF-609 and PBF-612 | Waste Experimental Reduction Facility (WERF) | P-000542 | 023-00001 | 4/5/01 | | PTC Termination | (Although termination letter refers to PTC #023-00001, refers to permit dated 10/21/1987, which has still old number 0340-0001-11) | T |
| PBF | Diesel Firewater Pump | Diesel Firewater Pump | P-930709 | | 8/6/93 | | PTC Applicability Determination No Permit Required | Below Regulatory Concern | E |
| PBF | Mixed Waste Storage Facility | Repackaging Booth | P-960064 | | 6/24/96 | | PTC Exemption Determination | | E |
| PBF | Mixed Waste Storage Facility | Repackaging Booth | P-960064 | | 4/23/97 | | PTC Exemption Determination | Modification to earlier exempted process not considered a modification according to Air Rules and still exempt. | E |
| PBF | Waste Experimental Reduction Facility | Phosphate Bonded Ceramic Project | P-970119 | | 12/31/97 | | PTC Exemption Determination | | E |
| RWMC | Observation Well WMF-607-001 | Vapor Vacuum Extraction | P-89052 | | 4/10/90 | | PTC Applicability Determination No Permit Required | Below Regulatory Concern | E |
| RWMC | RWMC Acid Pit | Drilling Activities | P-910817 | | 9/18/91 | | PTC Applicability Determination No Permit Required | Below Regulatory Concern | E |
| RWMC | RWMC Acid Pit | Acid Pit Site Characterization Drilling Project | | | 11/6/91 | | PTC Applicability Determination No Permit Required | Memo, but no letter to RWMC available | E |
| RWMC | RWMC | Drilling Activities | | | 4/9/92 | | PTC Applicability Determination No Permit Required | Below Regulatory Concern | E |
| RWMC | RWMC | Gasoline Generator | P-930205 | | 2/26/93 | | Conditional PTC Applicability Determination No Permit Required | Limited to 1,500 hours per year | E |
| RWMC | RWMC | Portable Diesel Generator | P-930308 | | 3/19/93 | | Conditional PTC Applicability Determination No Permit Required | Limited to 1,440 hours per year | E |
| RWMC | RWMC | Mobile Laboratory | P-930412 | | 4/21/93 | | PTC Exemption Determination | | E |
| RWMC | RWMC | Sewer System Upgrade | P-930214 | | 6/25/93 | | PTC Exemption Determination | | E |
| RWMC | PC Exploration | Portable Diesel Drilling Operation | P-940087 | | 5/19/94 | | PTC Exemption Determination | Category II Exemption | E |
| RWMC | Waste Characterization Facility Utility Building; Waste Characterization Process Building | WCF Utility Building Standby Diesel Engine Generator Stack, Boiler Stack WCF-B1-01, and Boiler Stack WCF-B1-02; WCF Process Building Exhaust Stack | P-940027 | 023-00001 | 10/7/94 | | Initial Permit | Transuranic Storage Area Waste Characterization Facility | S |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| RWMC | Waste Characterization Facility Utility Building; Waste Characterization Process Building | WCF Utility Building Standby Diesel Engine Generator Stack, Boiler Stack WCF-B1-01, and Boiler Stack WCF-B1-02; WCF Process Building Exhaust Stack | | 023-00001 | 2/2/95 | | PTC Modification | Modify Emissions Limits | S |
| RWMC | Waste Characterization Facility Utility Building; Waste Characterization Process Building | WCF Utility Building Standby Diesel Engine Generator Stack, Boiler Stack WCF-B1-01, and Boiler Stack WCF-B1-02; WCF Process Building Exhaust Stack | P-9600128 | 023-00001 | 10/28/96 | | PTC Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | T |
| RWMC | Waste Characterization Facility Utility Building; Waste Characterization Process Building | WCF Utility Building Standby Diesel Engine Generator Stack, Boiler Stack WCF-B1-01, and Boiler Stack WCF-B1-02; WCF Process Building Exhaust Stack | P-000540 | 023-00001 | 4/5/01 | | PTC Termination | | T |
| RWMC | RWMC | Lead Sampling | P-960055 | | 5/17/96 | | PTC Exemption Determination | | E |
| RWMC | RWMC | Waste Characterization Activities in a moveable HEPA filter-exhausted tent | P-960146 | | 10/15/96 | | Conditional PTC Exemption Determination | | E |
| RWMC | Drum Venting Facility | Drum Venting Facility | P-960149 | | 10/18/96 | | Director's Exemption | Note: Memo lists a history of EPA NESHAP approval for the Drum Venting Facility for which source files do not have a record | E |
| RWMC | Gas Generation Test System | Gas Generation Test System Modification | | | 5/2/00 | | DOE Self-Exemption | Category II Self-Exemption | E |
| RWMC | Waste Management Facility | Type II Module WSF-634 | P-000527 | | 8/28/00 | | PTC Exemption Determination DEQ does not concur with exemption request | | E |
| AMWTP | Advanced Mixed Waste Treatment Facility-AM-BN-L-155 | Advanced Mixed Waste Treatment Facility-AM-BN-L-155 | | n/a | 7/22/98 | | EPA Approval to construct the Advanced Mixed Waste Treatment Facility | | A |
| AMWTP | Advanced Mixed Waste Treatment Facility | Preconstruction Activities | | n/a | 3/18/99 | | DEQ Approval of Preconstruction Activities | | AD |
| AMWTP | Advanced Mixed Waste Treatment Facility | Glovebox Ventilation System, Drum Line, Box Line | P-980040 | 023-00001 | 7/19/00 | | Initial Permit | | S |
| AMWTP | Advanced Mixed Waste Treatment Facility | Drum Waste Handling Enclosure, Drum Waste Packaging Glovebox, Box Lines, Supercompactor Gloveboxes, Special Case Waste Glovebox System, Boilers, and Hot Water Heater | P-010503 | 023-00001 | 4/19/02 | Permit Cancelled 6/7/2002 | PTC Modification | Status: Permit Cancelled | AD |
| AMWTP | Advanced Mixed Waste Treatment Facility | Drum Waste Handling Enclosure, Drum Waste Packaging Glovebox, Box Lines, Supercompactor Gloveboxes, Special Case Waste Glovebox System, Boilers, and Hot Water Heater | P-020504 | 023-00001 | 6/7/02 | | PTC Modification | Status: Active. Pmt issued for Administrative Changes | A |
| AMWTP | Advanced Mixed Waste Treatment Project Characterization Facility WMF-634 | Advanced Mixed Waste Treatment Project Characterization Facility WMF-634 | P-000530 | n/a | 11/1/00 | | PTC Exemption Determination | Category I Exemption | E |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| AMWTP | Advanced Mixed Waste Treatment Facility | AMWTF Box Lines | O-2009.0140 | n/a | 11/20/09 | 11/20/2009 | Issued letter for interpretation of Permit Conditions 2.2 and 3.2 regarding box line throughput limits | Equivalent limits for "10 boxes per day" limit are specified. Also, interpretation provided regarding "waste volume" of containers used to transport waste to/from box lines. | A |
| AMWTP | Advanced Mixed Waste Treatment Facility | Drum Waste Handling Enclosure, Drum Waste Packaging Glovebox, Box Lines, Supercompactor Gloveboxes, Special Case Waste Glovebox System, Boilers, and Hot Water Heater | P-020504 | 023-00001 (P-020504) | 9/28/11 | 10/1/2011 | DEQ letter transfers AMWTP PTC No. 023-00001 issued June 7, 2002 from BBWI to Idaho Treatment Group (ITG) | none | A |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure and Transuranic Waste Storage Facility | Retrieval Enclosure, Waste Storage Facility | | 0340-0001 | 12/12/90 | | Initial Permit | Status: S | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure and Transuranic Waste Storage Facility | Retrieval Enclosure, Waste Storage Facility | | 023-00001 | 8/17/94 | | Permit Modification | Status: S. Stack parameters, operating requirements, and emissions limitations changes | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure and Transuranic Waste Storage Facility | Retrieval Enclosure, Waste Storage Facility | | 023-00001 | 11/30/94 | | Permit Modification | Status: S. Administrative Amendments | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure and Transuranic Waste Storage Facility | Retrieval Enclosure, Waste Storage Facility | P-960155 | 023-00001 | 1/10/97 | | Permit Modification | Status: S. VOC emission permit limits and monitoring requirements eliminated | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure and Transuranic Waste Storage Facility | Gas Burner Heating Unit, Emergency Generator Unit, Retrieval Diesel Enclosure Soil Vacuum | P-990135 | 023-00001 | 3/27/00 | | Permit Modification | Status: S. Supersedes earlier permit | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Gas Burner Heating Unit, Emergency Generator Unit, Retrieval Diesel Enclosure Soil Vacuum | P-990135 | 023-00001 | 10/13/00 | | Permit Modification | Status: S. Administrative Amendments | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Gas Burner Heating Unit, Emergency Generator Unit, Retrieval Diesel Enclosure Soil Vacuum | P-000533 | 023-00001 | 6/4/01 | | Permit Modification | Status: Superseded by PTC P-030542 issued 12/19/03. Administrative Amendments and Clarifications | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Retrieval emissions; aggregate emissions for diesel engines in Two 115-horsepower forklifts, two 57-horsepower skid loaders, one 110-horsepower yard crane, one 80-horsepower tug, and one 360-horsepower soil vacuum; and propane heater | P-010510 | 023-00001 | 5/10/02 | | Permit Modification | Status: S. New Emissions Units | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Retrieval emissions; aggregate emissions for diesel engines in Two 115-horsepower forklifts, two 57-horsepower skid loaders, one 110-horsepower yard crane, one 80-horsepower tug, and one 360-horsepower soil vacuum; and propane heater | P-020505 | 023-00001 | 7/12/02 | | Permit Modification | Status: S. Administrative Amendments and Clarifications | S |

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| Area | Building | Emissions Units | Project Number | Permit Number | Action Date | Effective Date | Action | Notes | |
|---|---|---|---|---|---|---|---|---|---|
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Retrieval emissions; aggregate emissions for diesel engines; and propane heater | P-020517 | 023-00001 | 1/27/03 | | Permit Modification | Status: S. Change in describing emissions units | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | | | | 7/2/03 | 7/2/2003 | DEQ Letter to INEEL | DEQ did not grant request to terminate PTC No. 023-00001 issued 6/4/01. DEQ acknowledged that the source had been transferred to BNFL. | AD |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | TSA-RE standby generator | P-030542 | P-030542 | 12/19/03 | | PTC Modification | Status: S. Transfer ownership from BBWI to BNFL | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Excavators, skid loaders, conveyors, dump trucks, trailers, standby generator, building heater | P-060512 | 023-00001 | 8/29/06 | | PTC Modification and combines all previous TSA-RE Pmts into one & increase annual retrieval limit | Status: S. Superseded by P-2011.0109 issued 9/19/11 | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | see above | X-2009.0133 | 023-00001 | 11/10/09 | 11/10/2009 | PTC Exemption. This exemption is superseded by the modified PTC no. P-2011.0109 issued 9/19/11 and is no longer effective. | This PTC Exemption allows for a higher waste retrieval rate in TSA-RE than what is presented in the PTC. The retrieval rate is increased from 64,800 to 84,240 drum equivalents per year. The retrieval project is nearing completion so this is essentially a short term increase. | S |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Retrieval vehicles, waste repackaging and treatment, standby generator, heaters | 60855 | P-2011.0109 | 9/19/11 | 9/19/2011 | PTC Modification to add RCE and ICE to TSA-RE | Add Retrieval & Inner Contamination Enclosures (RCE and ICE) to TSA-RE; address completion of retrieval operations | A |
| TSA-RE | Transuranic Storage Area Retrieval Enclosure | Retrieval vehicles, waste repackaging and treatment, standby generator, heaters | 60927 | P-2011.0109 | 9/28/11 | 10/1/2011 | DEQ letter transfers PTC from BBWI to Idaho Treatment Group (ITG) | none | A |
| TAN | Classified Waste Incinerator | Classified Waste Multiple Chamber Incinerator Model CAI-100-D | | 0340-0001-000 | 3/11/86 | | Initial Permit | | T |
| TAN | C lassified Waste Incinerator | Classified Waste Multiple Chamber Incinerator Model CAI-100-D | | 0340-00001-000 | 10/18/11 | 10/18/2011 | PTC Termination | Operation of Incinerator has been permanently discontinued per 11-29-10 LTR from Jo Anna Stenzel, BAE. Also removed from PTC P-2011.0092 issued 10/18/11. | T |
| TAN | Building TAN-607 | Process Experimental Pilot Plant rotary kiln incinerator (PREPP Incinerator) | | 0340-0001-300 | 12/23/86 | | Initial Permit | | T |
| TAN | Building TAN-607 | Process Experimental Pilot Plant rotary kiln incinerator (PREPP Incinerator) | | 0340-0001-300 | 10/4/88 | 10/15/1989 | Permit Termination and Conditional PTC Exemption for a limited number of test burns | PTC termination eliminates the need for source testing | E |
| TAN | Building TAN-607 | Process Experimental Pilot Plant rotary kiln incinerator (PREPP Incinerator) | | | 9/28/89 | 1/1/1991 | Renewal of Conditional PTC Exemption | (Letter really did say 1991, but it must have meant 1990) | E |
| TAN | Building TAN-607 | Process Experimental Pilot Plant rotary kiln incinerator (PREPP Incinerator) | P-900902 | | 11/13/90 | 11/30/1991 | Renewal of Conditional PTC Exemption | | E |
| TAN | TAN Fire Station | Emergency Generator and Vehicle Exhaust System | | | 12/30/88 | | Conditional PTC Exemption | | E |
| TAN | TAN | Demonstration | P-89053 | | 7/26/89 | | Conditional PTC Exemption | **For two 33-hour tests** | E |
| TAN | TAN | In-Situ Vitrification Intermediate Scale Demonstration | P-89053 | | 10/10/89 | | Conditional PTC Exemption | Relaxing 33-hour requirement to allow tests up to five days | E |
| TAN | TAN, Building 640 | Secondary Containment Vessel Vent TAN 640-1 | | 0340-0001 | 10/24/89 | | Initial Permit | | ? |
| TAN | TAN, Building 629 | 2B Paint Process Spray Paint Booth, Drying Oven, and Curing Area | P-89083 | 0260-0030 | 3/27/90 | | Initial Permit | | S |

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|---|---|---|---|---|---|---|---|---|---|
| TAN | TAN, Building 629 | 2B Paint Process Spray Paint Booth, Drying Oven, and Curing Area | P-9600128 | 0260-0030 | 10/28/96 | | Permit Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| TAN | TAN, Building 629 | 2B Paint Process Spray Paint Booth, Drying Oven, and Curing Area | | | 7/28/00 | 7/28/00 | Permit Modification | The PTC requirements for TAN 629 are now incorporated into the SMC PTC. Refer to the PTC issued on 7/28/2000. | S |
| TAN | TAN-607 | Material Testing | P-900809 | | 10/2/90 | | Conditional PTC Exemption | | E |
| TAN | TAN | In Situ Vitrification | P-900909 | | 10/5/90 | | PTC Applicability Determination No Permit Required | Below Regulatory Concern | E |
| TAN | TAN-607 | Research and Development Material Testing Facility | P-900809 | 0340-0001 | 12/21/90 | | Initial Permit | | S |
| TAN | TAN-607 | Research and Development Material Testing Facility Dismantlement of 20 Casks | P-931219 | 0340-0001 | 3/4/94 | | PTC Applicability Determination No PTC Modification Required | Determined that this project lies under the scope of the R&D permit | S |
| TAN | TAN-607 | Research and Development Material Testing Facility | P-940237 | 023-00001 | 5/1/95 | | PTC Applicability Determination PTC Modification is Required | Shifting part of SMC Production to TAN-607, PTC Modification Required. (Note permit number was updated to 023-00001.) | S |
| TAN | TAN-607 | Research and Development Material Testing Facility | P-9600128 | 023-00001 | 10/28/96 | | Permit Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| TAN | TAN-607 | Research and Development Material Testing Facility | P-970129 | 023-00001 | 3/20/98 | | PTC Cancellation | | S |
| TAN | TAN-607 | Research and Development Material Testing Facility | P-000521 | 023-00001 | 7/27/00 | | Confirmation of PTC Cancellation | Vacating Facility Completed | T |
| TAN | TAN | Boilers | P-910313 | | 4/11/91 | | PTC Applicability Determination Exemption not Granted | Two Keeler Boilers being replaced with two new Cleaver-Brooks Boilers is not exempt to New Source Performance Standards | AD |
| TAN | Specific Manufacturing Capabilities (SMC) Material Development Facility (MDF) | Specific Manufacturing Capabilities (SMC) Material Development Facility (MDF) | | | 10/22/90 | | EPA permission to construct | | A |
| TAN | TAN-679 | Specific Manufacturing Capabilities Ongoing Research and Development | | | 10/23/91 | | PTC Exemption Determination Exemption Not Granted | Requested exemption for 240 hours over a 12-month period denied. Conditional PTC Exemption for one 10-hour run granted. | E |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN 607 Welding Hood, Tan-607 Analytical Laboratory, TAN-629-Phase I, TAN-675 2B Waste Handling Process, TAN-677 Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment | P-88015 | 0340-0001 | 6/10/92 | | Initial Permit | | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Fuel Burning Equipment | P-930820 | 0340-0001 | 8/19/93 | | Permit Modification | Wording Change | S |
| TAN | Specific Manufacturing Capabilities (SMC) | TAN-005 and TAN 629-002 | P-930714 | 0340-0001 | 9/20/93 | | Permit Modification | Emissions modification | S |

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|---|---|---|---|---|---|---|---|---|---|
| TAN | Specific Manufacturing Capabilities (SMC) | TAN-677 Welding Operations | | 0340-0001 | 10/13/93 | | PTC Applicability Determination | Determined that the relocation of the welding shop will not affect emissions. | AD |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN 607 Welding Hood, Tan-607 Analytical Laboratory, TAN-629-Phase I, TAN-675 2B Waste Handling Process, TAN-677 Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment | P-9600128 | 0340-0001 | 10/28/96 | | Permit Modification | Emery 3004 may be used in place of DOP for HEPA Filter Testing | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN 607 Welding Hood, Tan-607 Analytical Laboratory, TAN-629-Phase I, TAN-675 2B Waste Handling Process, TAN-677 Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment | | 023-00001 | 2/14/97 | | Permit Modification | Note permit number change to 023-00001 | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-629-Phase I, TAN-677 Welding Operations, TAN-679 Phase II | P-970129 | 023-00001 | 3/20/98 | | Permit Modification | Changes to Emissions Units | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN-629-Phase I, TAN-677 Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment, Refuse Incinerator | P-980128 | 023-00001 | 7/28/00 | | Permit Modification | Changes to Emissions Units | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN-629-Phase I, TAN-677 Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment, Refuse Incinerator | P-000514 | 023-00001 | 9/26/00 | | Permit Modification | Language Clarification | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN-629-Phase I, TAN-677 Metal Working, Cutting, and Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment, Refuse Incinerator, 2B Paint Process | P-020501 | 023-00001 | 6/19/02 | | Permit Modification | Changes to Emissions Units | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN-629-Phase I, TAN-677 Metal Working, Cutting, and Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment, Refuse Incinerator, 2B Paint Process | P-020501 | 023-00001 | 11/15/02 | | Permit Modification | Altered HEPA Filter Efficiency Testing procedures | S |

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|---|---|---|---|---|---|---|---|---|---|
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-606 Carpenter Shop, TAN-606 Paint Booth, TAN-629-Phase I, TAN-677 Metal Working, Cutting, and Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment, Refuse Incinerator, 2B Paint Process | P-020519 | 023-00001 | 1/8/03 | | Permit Modification | Boiler load requirement removed and requirements clarified. | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-677 Metal Working, Cutting, and Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment, Refuse Incinerator, 2B Paint Process | P-030501 | 023-00001 | 5/20/04 | | Permit Modification | Status: Superseded by P-2011.0092. TAN 606-005 Carpenter Shop, TAN 606-026, TAN 606-027 Paint Booth have ceased operations. TAN 629-013, and TAN 679-022, 023 and 024 were modified. Letter was issued by DEQ on 9/26/07 (Project No. 0-2007.0188) to clarify meaning of the term "10-hour shift". | S |
| TAN | Specific Manufacturing Capabilities (SMC) | Manufacture of Armor Assemblies TAN-677 Metal Working, Cutting, and Welding Operations, TAN-679 Phase II, TAN-681 Process Reclamation Facility, Fuel Burning Equipment, 2B Paint Process | 60825 | P-2011.0092 | 10/18/11 | 10/18/2011 | Permit Modification. | Status: Active. Removed refuse incinerator, allows "any"distillate oil, LPG and natural gas fuel in boilers, and removes small permit limits and monitoring that are no longer necessary. | A |
| TAN | TAN-602 | Replacement of #2 Fuel Boilers | P-920502 | 023-0001 | 7/24/92 | | Initial Permit | | T |
| TAN | TAN-602 | Replacement of #2 Fuel Boilers; TAN 603-PBG-76-98, Boilers #4 and #5 | P-980036 | 023-0001 | 5/14/98 | | Permit Modification | Status: PTC was termintated by DEQ letter issued on 7-18-07 (project No. 0-2007.0114). Performance test required in initial permit has already been performed | T |
| TAN | TAN | Portable WasteWater Treatment Unit | P-920904 | | 10/14/92 | | PTC Applicability Determination No Permit Required | Project does not constitute a modification | AD |
| TAN | TAN | 2B Paint Process and TAN-607 | P-921007 | | 11/10/92 | | PTC Applicability Determination Request Withdrawn by Facility | | AD |
| TAN | TAN | High Pressure Water Cleaning System | P-930415 | | 5/18/93 | | PTC Applicability Determination No Permit Required | Project does not constitute a modification | AD |
| TAN | TAN-603 | Boilers | P-930823 | | 10/22/93 | | Conditional PTC Exemption | | E |
| TAN | TAN Injection Wells | Technical Support Facility Injection Well (TSF-05) and Surrounding Groundwater Contamination (TSF-23) | | | 9/30/94 | | Review of Record of Decision | Determined that no ambient air quality standards will be violated by project. | AD |
| TAN | TAN | Lead Sampling | P-960055 | | 5/17/96 | | PTC Exemption Determination | | E |
| TAN | TAN-734-001 | Dewatering/Drying of Storage Pool Canisters | P-980048 | 023-00001 | 7/16/98 | | Initial Permit | (Note that cover page project is mis-typed as CPP-1619, Waste Storage Facility) | S |
| TAN | TAN-734-001 | Dewatering/Drying of Storage Pool Canisters | P-990126 | 023-00001 | 11/9/99 | | Permit Modification | | S |
| TAN | TAN-734-001 | Dewatering/Drying of Storage Pool Canisters | P-000526 | 023-00001 | 10/17/00 | | Permit Modification | | T |
| TAN | TAN-734-001 | Dewatering/Drying of Storage Pool Canisters | P-020511 | 023-00001 | 8/28/02 | | PTC Termination | | T |

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|---|---|---|---|---|---|---|---|---|---|
| TAN | Hot Shop | Construction of a Drum Evaporator | P-990130 | | 11/5/99 | | PTC Exemption Determination | 11/29/1999, but signed by a different DEQ person) | E |
| TAN | TAN Wells #34 and #35 | Treatment of Water | | | 5/2/00 | | DOE Level III Self-Exemption from PTC Requirements | | E |
| TRA | TRA-603 MTR Building | Calcine Solids Retrieval Pilot Plant | P-89010 | | 10/4/89 | | PTC Exemption Determination | | E |
| TRA | TRA-603 MTR Building | Calcine Solids Retrieval Pilot Plant | P-89010 | | 10/4/89 | 1/1/1991 through 12/31/1991 | PTC Exemption Extension | | E |
| TRA | TRA-603 MTR Building | Calcine Solids Retrieval Pilot Plant | P-901209 | 0340-0001 | 10/10/91 | | Initial Permit | | T |
| TRA | TRA-603 MTR Building | Calcine Solids Retrieval Pilot Plant | P-000541 | 0340-0001 | 4/5/01 | | PTC Cancellation | Plant never became operational and not plans to operate it in the future. | T |
| TRA | TRA Evaporation Pond | TRA Evaporation Pond | P-88089 | 0340-0001 | 10/26/90 | | Initial Permit | | S |
| TRA | TRA Evaporation Pond | TRA Evaporation Pond | P-930703 | 0340-0001 | 8/5/93 | | Permit Modification | Change Emissions requirements | S |
| TRA | TRA Evaporation Pond | TRA Evaporation Pond | | 0340-0001 | 11/15/93 | | Permit Modification | Discharge of Purge Water allowed within the limits of the existing permit | S |
| TRA | TRA Evaporation Pond | TRA Evaporation Pond | P-950178 | 0340-0001 | 12/13/95 | | Permit Modification | Revise Process Description, allow alternative technologies for monitoring, alter pond level and effluent requirements | S |
| TRA | TRA Evaporation Pond | TRA Evaporation Pond | P-980084 | 0340-0001 | 10/12/99 | | Permit Modification Determination | Addition of Blue Dye not Considered a Modification | AD |
| TRA | TRA Evaporation Pond | TRA Evaporation Pond | P-010509 | 023-00001 | 9/9/02 | | Permit Modification | Status: Active. Warm Wastewater Evapoeration Pond | A |
| TRA | Emergency Generator | Emergency Generator | P-910106 | | 2/21/91 | | Conditional PTC Exemption | | E |
| TRA | Emergency Generator | Emergency Generator | | | 3/4/92 | | Conditional PTC Exemption | | E |
| TRA | Emergency Generator Emergency Command Center | TRA-680-M-1 | P-030536 | 023-00001 | 1/16/04 | | Category II Exemption | 250 hp generator allowed up to 225 hr/month | E |
| TRA | Tritium Research Laboratory | Bench Scale Demonstration | P-930509 | | 8/22/93 | | PTC Applicability Determination No Permit Required | Below Regulatory Concern | E |
| TRA | TRA Radioactive Waste System Facility | TRA Radioactive Waste System Upgrade | P-950107 | | 6/16/95 | | PTC Applicability Determination No Permit Required | Not Considered a Modification | E |
| TRA | TRA-780 | Temporary Accumulation Area | P-970032 | | 4/18/97 | | PTC Exemption Determination | Categorically Exempt | E |
| TRA | TRA | Power/Back-up Generators for TRA/ATR | P-000534 | P-000534 | 5/18/04 | | Initial Permit | Status: Active. Limit NOx PTC to less than a 39 TPY increase for three electrical generators | A |

# APPENDIX C – FRA FORM for SUBPART ZZZZ PART 63

**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:<br>United States Department of Energy, Idaho Operations Office | 2. Facility Name:<br>Idaho National Laboratory |
| 3. Brief Project Description: | Multipurpose National Research and Development Laboratory |

| APPLICABILITY DETERMINATION | |
|---|---|
| 4. List applicable subparts of the New Source Performance Standards (NSPS) (40 CFR part 60).<br><br>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):<br><br>40 CFR Part 60 Subpart IIII was submitted with the initial renewal application.<br><br>☐ Not Applicable |
| 5. List applicable subpart(s) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) found in 40 CFR part 61 and 40 CFR part 63.<br><br>Examples of affected emission units include solvent cleaning operations, industrial cooling towers, paint stripping and miscellaneous surface coating. EPA has a web page dedicated to NESHAP that should be useful to applicants. | List of applicable subpart(s):<br><br>40 CFR part 63 subpart ZZZZ -- see Attachment FRA-1 for regulatory analysis<br><br>☐ 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.<br><br>**Note** - 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. | ☑ A detailed regulatory review is provided (Follow instructions and example).<br><br>☐ DEQ has already been provided a detailed regulatory review. Give a reference to the document including the date. |

**IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT**

***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.***

# Instructions for Form FRA

**Item 4 & 5.** It is important that facilities review the most recent federal regulations when submitting their permit application to DEQ. Current federal regulations can be found at the following Web site: http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?&c=ecfr&tpl=/ecfrbrowse/Title40/40tab_02.tpl.

**Item 6.** For each applicable subpart identified under items 4-5 conduct a complete regulatory analysis. The facility must follow the procedure given below or obtain permission from DEQ to provide the necessary information using an alternative procedure:

1. Retrieve a TEXT or PDF copy of the applicable federal regulation subpart(s) online at http://www.gpoaccess.gov/cfr/retrieve.html

2. Copy and paste the regulation(s) into your DEQ air permit application.

3. Highlight or underline sections in the regulation(s) that are applicable to the source(s).

4. Under each section of the subpart, explain why the source is subject to the section, or why the source is not subject to the section. When providing the explanation use a different font than the regulation (i.e. ***bold, italic***) so that it is easy for the reader to determine the text that the applicant has provided. An example NSPS regulatory analysis is attached. The applicant must provide all necessary information needed to determine applicability. If information is lacking or the analysis is incomplete the application will be determined incomplete.

   EPA provides a web site dedicated to NSPS/NESHAP applicability determinations that may be useful to applicants. Follow this link to the applicability determination index Clean Air Act Applicability Determination Index - Compliance Monitoring - EPA. Another useful source of information is the preamble to the regulation which is published in the Federal Register on the date the regulation was promulgated. Federal Registers may be found online at Federal Register: Main Page. The date the regulation was published in the Federal Register is included in the footnotes of the regulation.

5. DEQ will assist in identifying the applicable requirements that the applicant must include in the application but will not perform the required technical or regulatory analysis on the applicant's behalf. Applicants should contact the Air Quality Permit Hotline (1-877-573-7648) to discuss NSPS/NESHAP regulatory analysis requirements or to schedule a meeting.

6. It also benefits facilities to document a non-applicability determination on federal air regulations which appear to apply to the facility but actually do not. A non-applicability determination will avoid future confusion and expedite the air permit application review. If you conduct an applicability determination and find that your activity is not NSPS or NESHAP affected facility an analysis should be submitted using the methods described above.

7. **It is not sufficient to simply provide a copy of the NSPS or NESHAP. The applicant must address each section of the regulation as described above and as shown in the example that is provided.**

# Attachment FRA-1

# 40 CFR Part 63 Subpart ZZZZ Regulatory Analysis

Attachment 1 contains a table of RICE owned or operated at the INL with the applicable subsections of 40 CFR 63 Subpart ZZZZ listed for each RICE.

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**E-CFR DATA IS CURRENT AS OF November 8, 2012**

**40 CFR Part 63 Subpart ZZZZ Regulatory Analysis**

**[Code of Federal Regulations]**
**[Title 40, Volume 14]**
**[Revised as of July 1, 2009]**
**From the U.S. Government Printing Office via GPO Access**

[CITE: 40CFR63]
**TITLE 40--PROTECTION OF ENVIRONMENT**

**CHAPTER I--ENVIRONMENTAL PROTECTION AGENCY**

**PART 63--NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES**

**SUBPART ZZZZ—NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES**

SOURCE: 69 FR 33506, June 15, 2004, unless otherwise noted.

**What This Subpart Covers**

**§ 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.

***The INL is subject to this subpart.***

[73 FR 3603, Jan. 18, 2008]

**§ 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.

***The INL is subject to this subpart.***

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008]

**§ 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.

(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.

(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.

(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;

(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;

(vi) Existing residential emergency stationary RICE located at an area source of HAP emissions;

(vii) Existing commercial emergency stationary RICE located at an area source of HAP emissions; or

(viii) Existing institutional emergency stationary RICE located at an area source of HAP emissions.

(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;

(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.

***The INL is subject to this section.***

[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]

**§ 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 and operating limitations 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 and operating limitations 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 and operating limitations no later than October 19, 2013.

(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.

(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.

(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.

***The INL is subject to this section.***

[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]

**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.

***The INL is subject to this section.***

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010]

**§ 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.

***The INL is not subject to this section.***

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010; 75 FR 51589, Aug. 20, 2010]

**§ 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?**

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 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.

***The INL is subject to this section.***

[75 FR 51589, Aug. 20, 2010]

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

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

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

(b) If you own or operate an existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the Federal Aid Highway System (FAHS) you do not have to meet the numerical CO emission limitations specified in Table 2d to this subpart. Existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the FAHS must meet the management practices that are shown for stationary non-emergency CI RICE less than or equal to 300 HP in Table 2d to this subpart.

***The INL is not subject to this section.***

[75 FR 9675, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010; 76 FR 12866, Mar. 9, 2011]

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

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. Existing non-emergency CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or at area sources in areas of Alaska not accessible by the FAHS are exempt from the requirements of this section.

***The INL is subject to this section.***

[75 FR 51589, Aug. 20, 2010]

**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 and operating limitations in this subpart that apply to you at all times.

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

***The INL is subject to this section.***

[75 FR 9675, Mar. 3, 2010]

**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.

***The INL is subject to this section.***

[69 FR 33506, June 15, 2004, as amended at 73 FR 3605, Jan. 18, 2008]

**§ 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.

***The INL is not subject to this section.***

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 51589, Aug. 20, 2010]

**§ 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.

***The INL is subject to this section.***

[75 FR 9676, Mar. 3, 2010, as amended at 75 FR 51589, Aug. 20, 2010]

**§ 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.

***The INL is subject to this section.***

**§ 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.

(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.

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

$$\frac{C_i - C_o}{C_i} \times 100 = R \qquad \text{(Eq. 1)}$$

Where:

$C_i$ = concentration of CO or formaldehyde at the control device inlet,

$C_o$ = concentration of CO or formaldehyde at the control device outlet, and

R = percent reduction of CO or formaldehyde emissions.

(2) You must normalize the carbon monoxide (CO) 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 ($CO_2$ ). If pollutant concentrations are to be corrected to 15 percent oxygen and $CO_2$ concentration is measured in lieu of oxygen concentration measurement, a $CO_2$ correction factor is needed. Calculate the $CO_2$ 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:

$$F_o = \frac{0.209\ F_d}{F_c} \qquad \text{(Eq. 2)}$$

Where:

$F_o$ = Fuel factor based on the ratio of oxygen volume to the ultimate $CO_2$ 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, $dsm^3$ /J (dscf/$10^6$ Btu).

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

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

$$X_{co_2} = \frac{5.9}{F_o} \qquad \text{(Eq. 3)}$$

Where:

$X_{co2}$ = $CO_2$ 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 $SO_2$ gas concentrations adjusted to 15 percent $O_2$ using $CO_2$ as follows:

$$C_{adj} = C_d \frac{X_{co_2}}{\%CO_2} \qquad \text{(Eq. 4)}$$

Where:

$\%CO_2$ = Measured $CO_2$ 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.

***The INL is subject to this section.***

[69 FR 33506, June 15, 2004, as amended at 75 FR 9676, Mar. 3, 2010]

**§ 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 oxygen or $CO_2$ at both the inlet and the outlet of the control device according to the requirements in paragraphs (a)(1) through (4) of this section.

(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 $CO_2$ 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 (5) 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) 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:

(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;

(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 landfill or digester gas stationary RICE located at an area source of HAP emissions;

(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;

(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.

(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 (g)(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 not accessible by the FAHS do not have to meet the requirements of paragraph (g) of this section.

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

(h) If you operate a new, reconstructed, or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

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

(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 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

***The INL is subject to this section.***

[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]

**§ 63.6630 How do I demonstrate initial compliance with the emission limitations and operating limitations?**

(a) You must demonstrate initial compliance with each emission and operating limitation that applies to you according to Table 5 of this subpart.

(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.

***The INL is subject to this section.***

**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.

***The INL is subject to this section.***

[69 FR 33506, June 15, 2004, as amended at 76 FR 12867, Mar. 9, 2011]

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

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

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

(c) [Reserved]

(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) *Requirements for emergency stationary RICE.* (1) 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, 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 was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of

HAP emissions, you must operate the emergency stationary RICE according to the requirements in paragraphs (f)(1)(i) through (iii) of this section. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (f)(1)(i) through (iii) of this section, is prohibited. If you do not operate the engine according to the requirements in paragraphs (f)(1)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. 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 year.

(iii) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(1)(iii), as long as the power provided by the financial arrangement is limited to emergency power.

(2) If you own or operate an emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions that was installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. If you do not operate the engine according to the requirements in paragraphs (f)(2)(i) through (iii) of this section, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the

vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.

(iii) You may operate your emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving 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.

***The INL is subject to this section.***

[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]

**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.

(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.

(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).

***The INL is subject to this section.***

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010; 75 FR 51591, Aug. 20, 2010]

**§ 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.

***The INL is subject to this section.***

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010]

**§ 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) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response

operation, the owner or operator must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.

(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.

***The INL is subject to this section.***

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010; 75 FR 51592, Aug. 20, 2010]

**§ 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).

***The INL is subject to this section.***

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

**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.

***The INL is subject to this section.***

[75 FR 9678, Mar. 3, 2010]

**§ 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).

***The INL is not subject to this section.***

**§ 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:

*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.

*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 or 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 $CO_2$ .

*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 internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. 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.* Stationary RICE used for peak shaving are not considered emergency stationary RICE. Stationary RICE used to supply power to an electric grid or that supply non-emergency power as part of a financial arrangement with another entity are not considered to be emergency engines, except as permitted under § 63.6640(f). 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.

*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 $CO_2$ .

*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 of 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 ($NO_X$) control device for rich burn engines that, in a two-step reaction, promotes the conversion of excess oxygen, $NO_X$, CO, and volatile organic compounds (VOC) into $CO_2$, 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 $C_3 H_8$ .

*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 $NO_X$ (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 PPPPP 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.

***The INL is subject to this section.***

[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]

**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.[1] |
| | b. Limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent $O_2$ | |

[1]Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

***The INL is not subject to the requirements of this table.***

[75 FR 9679, Mar. 3, 2010, as amended at 75 FR 51592, Aug. 20, 2010]

**Table 1b to Subpart ZZZZ of Part 63—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**

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 and existing 4SRB stationary RICE >500 HP located at an area source of HAP emissions that operate more than 24 hours per calendar year:

| **For each . . .** | **You must meet the following operating limitation . . .** |
|---|---|
| 1. 4SRB stationary RICE 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<br>4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O2 and using NSCR; or<br>4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd or less at 15 percent O2 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<br>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. |
| 2. 4SRB stationary RICE 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<br>4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O2 and not using NSCR; or<br>4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd or less at 15 percent O2 and not using NSCR. | Comply with any operating limitations approved by the Administrator. |

***The INL is not subject to the requirements of this table.***

[76 FR 12867, Mar. 9, 2011]

**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 limitation, except during periods of startup . . .** | **During periods of startup you must . . .** |
|---|---|---|
| 1. 2SLB stationary RICE | a. Reduce CO emissions by 58 percent or more; or<br>b. Limit concentration of formaldehyde in the stationary RICE exhaust to 12 ppmvd or less at 15 percent $O_2$. 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 $O_2$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.[1] |
| 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 $O_2$ | |
| 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 $O_2$ | |

[1] Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

***The INL is not subject to the requirements of this table.***

[75 FR 9680, Mar. 3, 2010]

**Table 2b to Subpart ZZZZ of Part 63— 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**

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 compression ignition

stationary RICE 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 that operate more than 24 hours per calendar year:

| For each . . . | You must meet the following operating limitation . . . |
|---|---|
| 1. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and using an oxidation catalyst; or 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of CO in the stationary RICE exhaust and using an oxidation catalyst | 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<br>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.[1] |
| 2. 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and not using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and not using an oxidation catalyst; or 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of CO in the stationary RICE exhaust and not using an oxidation catalyst | Comply with any operating limitations approved by the Administrator. |

[1] Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(g) for a different temperature range.

***The INL is subject to the requirements of this table.***

[75 FR 51593, Aug. 20, 2010, as amended at 76 FR 12867, Mar. 9, 2011]

**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 | During periods of startup you must |
|---|---|---|

| | **following requirement, except during periods of startup . . .** | . . . |
|---|---|---|
| 1. Emergency stationary CI RICE and black start stationary CI RICE. [1] | a. Change oil and filter every 500 hours of operation or annually, whichever comes first; [2]<br>b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;<br>c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.[3] | 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.[3] |
| 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; [2] | |
| | b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; | |
| | c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.[3] | |
| 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 $O_2$ | |
| 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 $O_2$; 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 | |

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| | at 15 percent $O_2$; or | |
| | b. Reduce CO emissions by 70 percent or more. | |
| 6. Emergency stationary SI RICE and black start stationary SI RICE.[1] | a. Change oil and filter every 500 hours of operation or annually, whichever comes first; [2] | |
| | b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; | |
| | c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.[3] | |
| 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; [2] | |
| | b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; | |
| | c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.[3] | |
| 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; [2] | |
| | b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; | |
| | c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and | |

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| | replace as necessary.[3] | |
| 9. Non-emergency, non-black start 2SLB stationary RICE $100 \leq HP \leq 500$ | Limit concentration of CO in the stationary RICE exhaust to 225 ppmvd or less at 15 percent $O_2$ | |
| 10. Non-emergency, non-black start 4SLB stationary RICE $100 \leq HP \leq 500$ | Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd or less at 15 percent $O_2$ | |
| 11. Non-emergency, non-black start 4SRB stationary RICE $100 \leq HP \leq 500$ | Limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent $O_2$ | |
| 12. Non-emergency, non-black start landfill or digester gas-fired stationary RICE $100 \leq HP \leq 500$ | Limit concentration of CO in the stationary RICE exhaust to 177 ppmvd or less at 15 percent $O_2$ | |

[1] 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.

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

[3] Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

***The INL is subject to the requirements of this table.***

[75 FR 51593, Aug. 20, 2010]

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

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

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

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| | whichever comes first; [1] | |
| | b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and | |
| | c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 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.[2] | a. Change oil and filter every 500 hours of operation or annually, whichever comes first; [1]<br>b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and<br>c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. | |
| 6. Non-emergency, non-black start 2SLB stationary RICE | a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first; [1] | |
| | b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; and | |
| | c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever | |

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| | 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; [1] | |
| | b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; 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 stationary RICE > 500 HP | a. Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd at 15 percent $O_2$; or | |
| | b. Reduce CO emissions by 93 percent or more. | |
| 9. Non-emergency, non-black start 4SRB stationary RICE ≤ 500 HP | a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; [1] | |
| | b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and | |
| | c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. | |

| | | |
|---|---|---|
| 10. Non-emergency, non-black start 4SRB stationary RICE > 500 HP | a. Limit concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd at 15 percent $O_2$; or | |
| | b. Reduce formaldehyde emissions by 76 percent or more. | |
| 11. Non-emergency, non-black start landfill or digester gas-fired stationary RICE | a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first; [1] | |
| | b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and | |
| | c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary. | |

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

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

***The INL is not subject to the requirements of this table.***

[75 FR 51595, Aug. 20, 2010]

**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 with a brake horsepower > 500 located at major sources; new or reconstructed 4SLB stationary RICE with a brake horsepower ≥ 250 located at major sources; and new or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources | Reduce CO emissions and not using a CEMS | Conduct subsequent performance tests semiannually.[1] |
| 2. 4SRB stationary RICE with a brake horsepower ≥ 5,000 located at major sources | Reduce formaldehyde emissions | Conduct subsequent performance tests semiannually.[1] |
| 3. Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB stationary RICE with a brake horsepower 250 ≤ HP ≤ 500 located at major sources | Limit the concentration of formaldehyde in the stationary RICE exhaust | Conduct subsequent performance tests semiannually.[1] |
| 4. Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are not limited use stationary RICE; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE located at an area source of HAP emissions with a brake horsepower > 500 that are operated more than 24 hours per calendar year that are not limited use stationary RICE | Limit or reduce CO or formaldehyde emissions | Conduct subsequent performance tests every 8,760 hrs. or 3 years, whichever comes first. |
| 5. Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE located at an area source of HAP emissions with a brake horsepower > 500 that are operated more than 24 hours per calendar year and are limited use stationary RICE | Limit or reduce CO or formaldehyde emissions | Conduct subsequent performance tests every 8,760 hrs. or 5 years, whichever comes first. |

[1] 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.

***The INL is subject to the requirements of this table.***

[75 FR 51596, Aug. 20, 2010]

**Table 4 to Subpart ZZZZ of Part 63—Requirements for Performance Tests**

As stated in §§ 63.6610, 63.6611, 63.6612, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE:

| 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. Measure the $O_2$ at the inlet and outlet of the control device; and | (1) Portable CO and $O_2$ analyzer | (a) Using ASTM D6522-00 (2005) [a] (incorporated by reference, see § 63.14). Measurements to determine $O_2$ must be made at the same time as the measurements for CO concentration. |
| | | ii. Measure the CO at the inlet and the outlet of the control device | (1) Portable CO and $O_2$ analyzer | (a) Using ASTM D6522-00 (2005) [a b] (incorporated by reference, see § 63.14) or Method 10 of 40 CFR appendix A. The CO concentration must be at 15 percent $O_2$, dry basis. |
| 2. 4SRB stationary RICE | a. Reduce formaldehyde emissions | i. Select the sampling port location and the number of traverse points; and | (1) Method 1 or 1A of 40 CFR part 60, appendix A § 63.7(d)(1)(i) | (a) Sampling sites must be located at the inlet and outlet of the control device. |
| | | ii. Measure $O_2$ at the inlet and outlet of the control device; and | (1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522-00m (2005) | (a) Measurements to determine $O_2$ concentration must be made at the same time as the measurements for formaldehyde 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, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 | (a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde concentration. |

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| | | iv. 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,[c] 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 $O_2$, 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 exhaust | i. Select the sampling port location and the number of traverse points; and | (1) Method 1 or 1A of 40 CFR part 60, appendix A § 63.7(d)(1)(i) | (a) If using a control device, the sampling site must be located at the outlet of the control device. |
| | | ii. Determine the $O_2$ 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, or ASTM Method D6522-00 (2005) | (a) Measurements to determine $O_2$ concentration must be made at the same time and location as the measurements for formaldehyde 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, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 | (a) Measurements to determine moisture content must be made at the same time and location as the measurements for formaldehyde concentration. |
| | | iv. Measure formaldehyde at the exhaust of the stationary RICE; or | (1) Method 320 or 323 of 40 CFR part 63, appendix A; or ASTM D6348-03,[c] 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 | (a) Formaldehyde concentration must be at 15 percent $O_2$, dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |

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| | | | equal to 130 | |
| | | v. Measure CO at the exhaust of the stationary RICE | (1) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522-00 (2005),[a] Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 | (a) CO Concentration must be at 15 percent $O_2$, dry basis. Results of this test consist of the average of the three 1-hour longer runs. |

[a] 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. ASTM-D6522-00 (2005) may be used to test both CI and SI stationary RICE.

[b] You may also use Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03.

[c] 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.

***The INL is subject to the requirements of this table.***

[75 FR 51597, Aug. 20, 2010]

**Table 5 to Subpart ZZZZ of Part 63—Initial Compliance With Emission Limitations and Operating Limitations**

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 stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB | 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<br>ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b); and<br>iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial |

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| stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | | performance test. |
| 2. Non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | 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<br>ii. You have installed a CPMS to continuously monitor catalyst inlet temperature according to the requirements in § 63.6625(b); and<br>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, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | 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<br>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<br>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, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP; and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | 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<br>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<br>iii. You have recorded the approved |

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| | | 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 ≥250 HP located at a major source of HAP, non-emergency stationary CI RICE >500 HP located at a major source of HAP, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | a. Reduce CO emissions, and using a CEMS | i. You have installed a CEMS to continuously monitor CO and either $O_2$or $CO_2$at both the inlet and outlet of the oxidation catalyst according to the requirements in § 63.6625(a); and<br>ii. You have conducted a performance evaluation of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B; and<br>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, existing non-emergency stationary CI RICE >500 HP located at an area source of HAP, and existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | a. Limit the concentration of CO, and using a CEMS | i. You have installed a CEMS to continuously monitor CO and either $O_2$or $CO_2$at the outlet of the oxidation catalyst according to the requirements in § 63.6625(a); and<br>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 HAP, and existing non-emergency 4SRB stationary RICE | a. Reduce formaldehyde emissions and using NSCR | i. The average reduction of emissions of formaldehyde determined from the initial performance test is equal to or |

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| >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | | greater than the required formaldehyde percent reduction; and<br>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, and existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | 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; and<br>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. Existing non-emergency 4SRB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | a. Limit the concentration of formaldehyde and not using NSCR | i. The average formaldehyde concentration determined from the initial performance test 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. |
| 10. New or reconstructed non-emergency stationary RICE >500 HP | a. Limit the concentration of | i. The average formaldehyde concentration, corrected to 15 |

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| 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 HP | formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR | percent $O_2$, dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and<br>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. |
| 11. 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 HP | 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 $O_2$, dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and<br>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. |
| 12. Existing non-emergency stationary RICE 100≤HP≤500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300<HP≤500 located at an area source of HAP | a. Reduce CO or formaldehyde 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. |
| 13. Existing non-emergency stationary RICE 100≤HP≤500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300<HP≤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 $O_2$, dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission limitation, as applicable. |

***The INL is subject to the requirements of this table.***

[76 FR 12867, Mar. 9, 2011]

**Table 6 to Subpart ZZZZ of Part 63—Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices**

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 . . . |
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| 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 reconstructed non-emergency CI stationary RICE >500 HP located at a major source of HAP | 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; [a]and<br>ii. Collecting the catalyst inlet temperature data according to § 63.6625(b); and<br>iii. Reducing these data to 4-hour rolling averages; and<br>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; [a]and<br>ii. Collecting the approved operating parameter (if any) data according to § 63.6625(b); and<br>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. |

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| 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, existing non-emergency stationary CI RICE >500 HP, existing non-emergency 4SLB stationary RICE >500 HP located at an area source of HAP that are operated more than 24 hours per calendar year | 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<br>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<br>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<br>ii. Reducing these data to 4-hour rolling averages; and |
| | | iii. Maintaining the 4-hour rolling averages within the operating limitations for the operating |

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| | | parameters established during the performance test. |
| 6. Non-emergency 4SRB stationary RICE with a brake HP ≥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.[a] |
| 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 ≤HP≤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; [a]and<br>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 stationary RICE >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 | a. Limit the concentration of formaldehyde in the stationary RICE exhaust and not 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; [a]and<br>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 |

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| | | parameters established during the performance test. |
| 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 | a. Work or Management practices | i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or<br>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. |
| 10. Existing stationary CI RICE >500 HP that are not limited use stationary RICE, and existing 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year and are not limited use stationary RICE | a. Reduce CO or formaldehyde emissions, or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and using oxidation catalyst or NSCR | 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 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 |

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| | | 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, and existing 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year and are not limited use stationary RICE | a. Reduce CO or formaldehyde emissions, or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and not using oxidation catalyst or NSCR | 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 and existing limited use 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year | a. Reduce CO or formaldehyde emissions or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and using an oxidation catalyst or NSCR | 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 |

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| | | 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 and existing limited use 4SLB and 4SRB stationary RICE >500 HP located at an area source of HAP that operate more than 24 hours per calendar year | a. Reduce CO or formaldehyde emissions or limit the concentration of formaldehyde or CO in the stationary RICE exhaust, and not using an oxidation catalyst or NSCR | 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. |

[a] 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.

***The INL is subject to the requirements of this table.***

[76 FR 12870, Mar. 9, 2011]

**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 ... |
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| 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; existing non-emergency, non-black start 4SLB and 4SRB stationary RICE > 500 HP located at an area source of HAP and operated more than 24 hours per calendar year; 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 ≤ HP ≤ 500 located at a major source of HAP | 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<br>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<br>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)(1)-(5) for engines that are not limited use stationary RICE subject to numerical emission limitations; and<br>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.<br>i. Semiannually according to the requirements in § 63.6650(b).<br>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. |

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| | | 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. |

***The INL is subject to the requirements of this table.***

[75 FR 51603, Aug. 20, 2010]

**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 |
|---|---|---|---|
| § 63.1 | General applicability of the General Provisions | Yes. | |
| § 63.2 | Definitions | Yes | Additional terms defined in § 63.6675. |
| § 63.3 | Units and abbreviations | Yes. | |
| § 63.4 | Prohibited activities and circumvention | Yes. | |
| § 63.5 | Construction and reconstruction | Yes. | |
| § 63.6(a) | Applicability | Yes. | |
| § 63.6(b)(1)-(4) | Compliance dates for new and reconstructed sources | Yes. | |
| § 63.6(b)(5) | Notification | Yes. | |
| § 63.6(b)(6) | [Reserved] | | |
| § 63.6(b)(7) | Compliance dates for new and reconstructed area sources that become major sources | Yes. | |
| § 63.6(c)(1)-(2) | Compliance dates for existing sources | Yes. | |
| § 63.6(c)(3)-(4) | [Reserved] | | |

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| § 63.6(c)(5) | Compliance dates for existing area sources that become major sources | Yes. | |
| § 63.6(d) | [Reserved] | | |
| § 63.6(e) | Operation and maintenance | No. | |
| § 63.6(f)(1) | Applicability of standards | No. | |
| § 63.6(f)(2) | Methods for determining compliance | Yes. | |
| § 63.6(f)(3) | Finding of compliance | Yes. | |
| § 63.6(g)(1)-(3) | Use of alternate standard | Yes. | |
| § 63.6(h) | Opacity and visible emission standards | No | Subpart ZZZZ does not contain opacity or visible emission standards. |
| § 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. |

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| § 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) | Applicability of monitoring requirements | Yes | Subpart ZZZZ contains specific requirements for monitoring at § 63.6625. |
| § 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 | Yes. | |
| § 63.8(c)(1)(ii) | SSM not in Startup Shutdown Malfunction Plan | Yes. | |
| § 63.8(c)(1)(iii) | Compliance with operation and maintenance requirements | Yes. | |
| § 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), |

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| | | | 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. |

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| § 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. | |
| § 63.10(a) | Administrative provisions for recordkeeping/reporting | Yes. | |
| § 63.10(b)(1) | Record retention | Yes. | |
| § 63.10(b)(2)(i)-(v) | Records related to SSM | No. | |
| § 63.10(b)(2)(vi)-(xi) | Records | Yes. | |
| § 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. | |

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| § 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. | |
| § 63.12 | State authority and delegations | Yes. | |
| § 63.13 | Addresses | Yes. | |
| § 63.14 | Incorporation by reference | Yes. | |
| § 63.15 | Availability of information | Yes. | |

***The INL is subject to the requirements of this table.***

[75 FR 9688, Mar. 3, 2010]

# 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c, d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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. | Yes | Ex > 500 HP | The source(s) listed meet(s) this criterion. | BGEN-812-001 CI 755 HP<br>BGEN-812-002 CI 900 HP<br>WMF-734 CI 745 HP |
| §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. | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6590(a)(1)(iii) | Existing stationary RICE located at an area source of HAP emissions. | No | N/A | The INL site is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §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 | The facility 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. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)–(iii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | No | | The facility 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 | | The facility 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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. | Yes | | See the respective §63.6590(b)(3)(i)-(viii) subsection(s) explanation(s). The source(s) listed have no further requirements under this subpart and subpart A of this part. | |
| §63.6590(b)(3)(i)(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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. | Yes | Ex LU > 500 HP | The source(s) listed meet(s) this criterion. | BGEN-812-001 CI 755 HP<br>BGEN-812-002 CI 900 HP<br>WMF-734 CI 745 HP |
| §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 | The facility does not have sources that meet these criteria. | 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. | No | | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6590(c)(1)-(5) | Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE | No | N/A | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criteron. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595 | When do I have to comply with this subpart? | Yes | | See the respective §63.6595(a)-(c) subsection(s) explanation(s). | |
| §63.6595(a) | Affected Sources. | Yes | | See the respective §63.6595(a)(1)-(7) subsection(s) explanation(s). | |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | Yes | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The source(s) listed meet(s) one or more of these criteria. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(b)(1)(2) | Area sources that become major sources | No | N/A | The facility is not located at an area source of HAP. | 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. | Yes | EX Emer ≤ 500 HP<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The source(s) listed meet(s) one or more of these criteria. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | 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? | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |

# 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6603(a)(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | No | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The facility does not have sources that meet this criterion. | N/A |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The source(s) listed meet(s) one or more of these criteria. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE | No | N/A | The facility does not have sources that meet this criteria. | 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? | Yes | | See the respective §63.6612(a)-(b) subsection(s) explanation(s). | 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 | The facility does not have sources that are required to conduct performance tests. | 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 | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | No | Ex Non Emer CI > 500 HP | The facility 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<br>Ex Non Emer CI > 500 HP | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | Yes | | 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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | No | Ex Non Emer CI > 500 HP | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | 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 | | See the respective §63.6625(e)(1)-(2) subsection(s) explanation(s). | |
| §63.6625(e)(1) | Existing stationary RICE with a site rating of < 100 HP located at a major source. | No | Ex RICE < 100 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6625(e)(2) | Existing emergency or black start stationary RICE with a site rating of < 500 HP located at a major source. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6625(e)(3)-(10) | Area source, 2SLB, 4SLB, 4SRB, landfill or digester gas. | No | N/A | The facility does not have sources that meet those criteria. | N/A |
| §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<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §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 | | The facility does not have sources that meet these criteria. | |
| §63.6625(g)(1) | Install a closed crankcase ventilation system... | No | Ex Non Emer CI ≥ 300 HP | The facility does not have sources that meet this criterion. | |
| §63.6625(g)(2) | Install an open crankcase filtration emission control system... | No | Ex Non Emer CI ≥ 300 HP | The facility does not have sources that meet this criterion. | |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §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 | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | BGEN-232-001 CI 380 HP |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | Yes | Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | S1-GEN 1001 SI 225 HP |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Continuous Compliance Requirements** | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | Yes | | See the respective §63.6640(a)-(f) subsection(s) explanation(s). | |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6640(c) | [Reserved] | N/A | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | Yes | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(i) through (iii) of this section. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | No | Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Notifications, Reports, and Records** | | | | | |
| §63.6645 | What notifications must I submit and when? | Yes | | See the respective §63.6645(a)-(h) subsection(s) explanation(s). | |

## 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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: | Yes | | See the respective §63.6645(a)(1)-(5) subsection(s) explanation(s). | |
| §63.6645(a)(1) | An existing stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility is not located at an area source or HAP. | N/A |
| §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. | No | Ex RICE < 100 HP<br>Emer RICE | The facility does not have sources that meet this criterion. | N/A |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>SI ≤ 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6650 | What reports must I submit and when? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | Yes | | See the respective §63.6655(a)-(f) subsection(s) explanation(s). | |

## 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6655(a)(1)-(5) | Records required if you must comply with the emission and operating limitations. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6655(b)(1)-(3) | Records required for each CEMS or CPMS. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | |
| §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 | The facility 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §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). | No | | See the respective §63.6655(e)(1)-(2) subsection(s) explanation(s). | |
| §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<br>Ex Emer SI ≤ 100 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(e)(2) | An existing stationary emergency RICE. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | Yes | | See the respective §63.6655(f) subsection(s) explanation(s). | |
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | Yes | Ex RICE ≤ 500 | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6660 | In what form and how long must I keep my records? | Yes | | | |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) these criteria. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| **Other Requirements and Information** | | | | | |
| §63.6665 | What parts of the General Provisions apply to me? | Yes | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| §63.6670(a)-(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A |
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE |
| **Tables** | | | | | |
| Table 1a | **Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources** | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| Table 1b | **Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP** | No | N/A | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | 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** | Yes | | See the respective Table 2c criteria explanation(s). | |
| 1 | Emergency stationary CI RICE and black start stationary CI RICE. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | BGEN-232-001 CI 380 HP |
| 2 | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A |
| 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | No | Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | No | Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 6 | Emergency stationary SI RICE and black start stationary SI RICE. | Yes | Emer SI | The source(s) listed meet(s) this criterion. | S1 -GEN 1001 SI 225 HP |
| 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 8 to 11 | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| **Table 2d** | **Requirements for Existing Stationary RICE Located at Area Sources** | No | | The INL site is a major source of HAP. | N/A |
| **Table 3** | **Subsequent Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | No | Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 4** | **Requirements for Performance Tests** | Yes | | See the respective Table 4 criteria explanation(s). | |
| 1 | 2SLB, 4SLB, and CI Stationary RICE. | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 5** | **Initial Compliance With Emission Limitations and Operating Limitations** | No | | The facility does not have sources that meet these criteria. | |
| 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 7, 8, 9 | 4SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | No | Ex Non Emer 100 ≤ HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | Yes | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| **Table 6** | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| 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<br>Ex Non Emer < 100 HP | The source(s) listed meet(s) this criterion. | S1-GEN 1001 SI 225 HP<br>BGEN-232-001 CI 380 HP |
| 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 | The facility 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for AMWTP

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 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 | The facility does not have sources that meet these criteria. | N/A |
| **Table 7** | **Requirements for Reports** | Yes | | See the respective Table 7 criteria explanation(s). | |
| 1 | Compliance Report | No | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All 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

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

# 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c, d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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. | Yes | Ex > 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 619-008, -009 (619-10) CI 558 HP |
| §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. | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6590(a)(1)(iii) | Existing stationary RICE located at an area source of HAP emissions. | No | N/A | The INL site is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | Yes | | See the respective §63.6590(a)(2)(i)-(iii) subsection(s) explanation(s). | |
| §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. | Yes | New > 500 HP | The source(s) listed meet(s) this criterion. | TRA 786-001 (786-M-1) CI 2593 HP |
| §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. | Yes | New ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 633-003 (633-M-1) CI 315 HP |
| §63.6590(a)(2)(iii) | New stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)-(iii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | Yes | | See the respective §63.6590(b)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(b)(1) | An affected source which needs to meet the initial notification requirements of §63.6645(f) only. | Yes | | See the respective §63.6590(b)(1)(i)-(ii) subsection(s) explanation(s). | |
| §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. | Yes | New Emer > 500 HP | The source(s) listed meet(s) this criterion. | TRA 786-001 (786-M-1) CI 2593 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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. | Yes | | See the respective §63.6590(b)(3)(i)-(viii) subsection(s) explanation(s). The source(s) listed have no further requirements under this subpart and subpart A of this part. | |
| §63.6590(b)(3)(i)(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | 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. | Yes | Ex Emer > 500 HP | The source(s) listed meet(s) this criterion. | TRA 619-008, -009 (619-10) CI 558 HP |
| §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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet these criteria. | 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 | | See the respective §63.6590(c)(1)-(7) subsection(s) explanation(s). | |
| §63.6590(c)(1)-(5) | Area Sources; 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE. | No | N/A | The facility does not have sources that meet these criteria. | 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. | Yes | New/LU Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. No other requirements of this Part apply for the source(s) listed. | TRA 633-003 (633-M-1) CI 315 HP |
| §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. | Yes | New CI ≤ 500 HP | The source(s) listed meet(s) this criterion. No other requirements of this Part apply for the source(s) listed. | TRA 633-003 (633-M-1) CI 315 HP |
| §63.6595 | When do I have to comply with this subpart? | Yes | | See the respective §63.6595(a)-(c) subsection(s) explanation(s). | |
| §63.6595(a) | Affected Sources. | Yes | | See the respective §63.6595(a)(1)-(7) subsection(s) explanation(s). | |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | Yes | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The source(s) listed meet(s) one or more of these criteria. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(b)(1)(2) | Area sources that become major sources. | No | N/A | The facility is not located at an area source of HAP. | 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.** | Yes | EX Emer ≤ 500 HP<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The source(s) listed meet(s) one or more of these criteria. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP<br>TRA 786-001 (786-M-1) CI 2593 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | Yes | | See the respective §63.6600(a)-(d) subsection(s) explanation(s). | |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | N/A |

# 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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. | Yes | Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | 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? | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6603(a),(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | Yes | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The source(s) listed meet(s) this criterion. | TRA 674-007 (674-M-6) CI 2132 HP |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The source(s) listed meet(s) one or more of these criteria. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | Yes | | See the respective §63.6610(a)-(d) subsection(s) explanation(s). | |
| §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). | Yes | Ex Non Emer CI > 500 HP | The source(s) listed is/are required to conduct initial performance test(s). | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE | No | N/A | The facility does not have sources that meet this criteria. | 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 | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that are required to conduct performance tests. | 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 | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | Yes | Ex Non Emer CI > 500 HP | The source(s) listed is/are required to conduct subsequent performance test(s). | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6620(a)-(i) | What performance tests and other procedures must I use? | Yes | Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non Emer CI > 500 HP | The facility will submit Performance Test protocol to DEQ for approval prior to the test for the source(s) listed. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | Yes | | See the respective §63.6625(a)-(k) subsection(s) explanation(s). | |
| §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 | See footnote a. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | Yes | Ex Non Emer CI > 500 HP | If necessary to demonstrate compliance with reducing CO emissions or limiting CO concentration, the facility may elect to install a CPMS for one or more of the source(s) listed. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6625(c) | Operating a new or reconstructed stationary RICE which fires landfill gas or digester gas. | No | N/A | The facility 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 | The facility does not have sources that meet this criterion. | 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 | | See the respective §63.6625(e)(1)-(2) subsection(s) explanation(s). | |
| §63.6625(e)(1) | Existing stationary RICE with a site rating of < 100 HP located at a major source. | No | Ex RICE < 100 HP | The facility does not have sources that meet this criterion. | 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6625(e)(3)-(10) | Area source, 2SLB, 4SLB, 4SRB, landfill or digester gas. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §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<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §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. | Yes | | See the respective §63.6625(g)(1)-(2) subsection(s) explanation(s). | |
| §63.6625(g)(1) | Install a closed crankcase ventilation system... | Yes | Ex Non Emer CI ≥ 300 HP | If necessary, the facility may elect to install a closed crankcase ventilation system for one or more of the source(s) listed. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6625(g)(2) | Install an open crankcase filtration emission control system... | Yes | Ex Non Emer CI ≥ 300 HP | If necessary, the facility may elect to install an open crankcase filtration emission control system for one or more of the source(s) listed. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §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 | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | No | Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | Yes | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| **Continuous Compliance Requirements** | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | Yes | Ex Non Emer CI > 500 HP that are not LU | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | Yes | | See the respective §63.6640(a)-(f) subsection(s) explanation(s). | |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6640(c) | [Reserved] | N/A | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | Yes | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP<br>TRA 786-001 (786-M-1) CI 2593 HP<br>(initial notification only) |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(i) through (iii) of this section. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | Yes | Emer > 500 HP | The source(s) listed meet(s) this criterion. | TRA 786-001 (786-M-1) CI 2593 HP |
| **Notifications, Reports, and Records** | | | | | |
| §63.6645 | What notifications must I submit and when? | Yes | | See the respective §63.6645(a)-(h) subsection(s) explanation(s). | |
| §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: | Yes | | See the respective §63.6645(a)(1)-(5) subsection(s) explanation(s). | |
| §63.6645(a)(1) | An existing stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | 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. | Yes | Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 786-001 (786-M-1) CI 2593 HP |
| §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 | The facility is not located at an area source of HAP. | N/A |
| §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<br>Emer RICE | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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. | Yes | New Emer > 500 HP | The source(s) listed meet(s) this criterion. | TRA 786-001 (786-M-1) CI 2593 HP |
| §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<br>SI ≤ 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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. | Yes | New Emer > 500 HP | The source(s) listed meet(s) this criterion. | TRA 786-001 (786-M-1) CI 2593 HP<br>(initial notification only) |
| §63.6645(g) | Notification of intent to conduct a performance test as required in §63.7(b)(1). | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | Yes | | See the respective §63.6645(h)(1)-(2) subsection(s) explanation(s). | |
| §63.6645(h)(1) | Notification of Compliance Status for compliance demonstrations that do not include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6650 | What reports must I submit and when? | Yes | | See the respective §63.6650(a)-(g) subsection(s) explanation(s). | |
| §63.6650(a) | You must submit each report in Table 7 of this subpart that applies to you. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §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. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) these criteria. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6650(c)(1)-(6) | The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) these criteria. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §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<br>Ex Non Emer ≤ 500 HP | See footnote a. | 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. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) these criteria. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE CI 2118 HP<br>CI 2118 HP<br>CI 2132 HP |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | Yes | | See the respective §63.6655(a)-(f) subsection(s) explanation(s). | |
| §63.6655(a)(1)-(5) | Records required if you must comply with the emission and operating limitations. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6655(b)(1)-(3) | Records required for each CEMS or CPMS. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | If necessary to demonstrate compliance with reducing CO emissions or limiting CO concentration, the facility may elect to install a CEMS or CPMS for one or more of the source(s) listed. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| §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 | The facility 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §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 | | See the respective §63.6655(e)(1)-(2) subsection(s) explanation(s). | |
| §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<br>Ex Emer SI ≤ 100 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(e)(2) | An existing stationary emergency RICE. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | Yes | | See the respective §63.6655(f) subsection(s) explanation(s). | |
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6660 | In what form and how long must I keep my records? | Yes | | | |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) these criteria. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| **Other Requirements and Information** | | | | | |
| §63.6665 | What parts of the General Provisions apply to me? | Yes | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP<br>TRA 786-001 (786-M-1) CI 2593 HP |
| §63.6670(a)-(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A |
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE |
| **Tables** | | | | | |
| Table 1a | Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| Table 1b | Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP | No | N/A | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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** | Yes | | See the respective Table 2b criteria explanation(s). | |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | Yes | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility has chosen to reduce CO emissions using an oxidation catalyst for this option. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | See footnote a. | 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** | Yes | Ex CI<br>Ex SI ≤ 500 HP | See the respective Table 2c criteria explanation(s). | |
| 1 | Emergency stationary CI RICE and black start stationary CI RICE. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| 2 | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A |
| 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | No | Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | Yes | Non Emer CI > 500 HP | The facility has chosen the option to reduce CO emissions. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| 6 | Emergency stationary SI RICE and black start stationary SI RICE. | No | Emer SI | The facility does not have sources that meet this criterion. | N/A |
| 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 8 to 11 | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| **Table 2d** | **Requirements for Existing Stationary RICE Located at Area Sources** | No | | The INL site is a major source of HAP. | N/A |
| **Table 3** | **Subsequent Performance Tests** | Yes | | See the respective Table 3 criteria explanation(s). | |
| 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | Yes | Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 4** | **Requirements for Performance Tests** | Yes | | See the respective Table 4 criteria explanation(s). | |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 1 | 2SLB, 4SLB, and CI Stationary RICE. | Yes | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility has chosen the option to reduce CO emissions. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | See footnote a. | N/A |
| **Table 5** | **Initial Compliance With Emission Limitations and Operating Limitations** | Yes | | See the respective Table 5 criteria explanation(s). | |
| 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | Yes | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility has chosen to reduce CO emissions using an oxidation catalyst for this option. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | No | Non Emer CI > 500 HP | See footnote a. | N/A |
| 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | See footnote a. | N/A |
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | No | Non Emer CI > 500 HP | See footnote a. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | See footnote a. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | No | Non Emer CI > 500 HP | See footnote a. | N/A |
| 7, 8, 9 | 4SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | No | Ex Non Emer 100 ≤ HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | No | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| **Table 6** | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | Yes | | See the respective Table 6 criteria explanation(s). | |
| 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | See footnote a. | N/A |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for ATR Complex

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 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<br>Ex Non Emer < 100 HP | The source(s) listed meet(s) this criterion. | TRA 609B-001 (609-M-87) CI 250 HP<br>TRA 680-001 (680-M-1) CI 250 HP<br>TRA 688-001 (688-M-1) CI 368 HP<br>TRA 688-002 (688-M-2) CI 368 HP |
| 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 | Yes | Ex Non Emer > 500 HP | The facility has chosen to reduce CO emissions using an oxidation catalyst for this option. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| 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 | See footnote a. | 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A |
| **Table 7** | **Requirements for Reports** | Yes | | See the respective Table 7 criteria explanation(s). | |
| 1 | Compliance Report | Yes | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The source(s) listed meet(s) this criterion. | TRA 670-046 (670-M-42) CI 2118 HP<br>TRA 670-053 (670-M-43) CI 2118 HP<br>TRA 674-007 (674-M-6) CI 2132 HP |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All Stationary RICE |

Notes:

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please

2 ACRONYMS

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

LU = Limited Use

a. The facility elects not to use this option for units TRA 670-046 (670-M-42), TRA 670-053 (670-M-43) and TRA 674-007 (674-M-6).

# 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c, d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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 | The facility 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. | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6590(a)(1)(iii) | Existing stationary RICE located at an area source of HAP emissions. | No | N/A | The INL site is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | Yes | | See the respective §63.6590(a)(2)(i)-(iii) subsection(s) explanation(s). | |
| §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 | The facility does not have sources that meet this criterion. | N/A |
| §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. | Yes | New ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 668 CI 364 HP |
| §63.6590(a)(2)(iii) | New stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)-(iii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | No | | The facility 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 | | The facility 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b)(3)(i)(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(c)(1)-(5) | Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE | No | N/A | The facility does not have sources that meet these criteria. | 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. | Yes | New/LU Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. No other requirements of this Part apply for the source(s) listed. | CFA 668 CI 364 HP |
| §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. | Yes | New CI ≤ 500 HP | The source(s) listed meet(s) this criterion. No other requirements of this Part apply for the source(s) listed. | CFA 668 CI 364 HP |
| §63.6595 | When do I have to comply with this subpart? | Yes | | See the respective §63.6595(a)-(c) subsection(s) explanation(s). | |
| §63.6595(a) | Affected Sources. | Yes | | See the respective §63.6595(a)(1)-(7) subsection(s) explanation(s). | |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | Yes | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The source(s) listed meet(s) one or more of these criteria. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(b)(1)(2) | Area sources that become major sources. | No | N/A | The facility is not located at an area source of HAP. | 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. | Yes | EX Emer ≤ 500 HP<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The source(s) listed meet(s) one or more of these criteria. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |

# 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | 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? | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6603(a),(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | No | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The facility does not have sources that meet this criterion. | N/A |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The source(s) listed meet(s) one or more of these criteria. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE. | No | N/A | The facility does not have sources that meet this criteria. | 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 | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that are required to conduct performance tests. | 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 | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | No | Ex Non Emer CI > 500 HP | The facility 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<br>Ex Non Emer CI > 500 HP | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | No | Ex Non Emer CI > 500 HP | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | 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 | | See the respective §63.6625(e)(1)-(2) subsection(s) explanation(s). | |
| §63.6625(e)(1) | Existing stationary RICE with a site rating of < 100 HP located at a major source. | Yes | Ex RICE < 100 HP | The source(s) listed meet(s) this criterion. | EB-B-26-601 SI 40 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6625(e)(2) | Existing emergency or black start stationary RICE with a site rating of < 500 HP located at a major source. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-26-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6625(e)(3)-(10) | Area source, 2SLB, 4SLB, 4SRB, landfill or digester gas. | No | N/A | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID | |
|---|---|---|---|---|---|---|
| §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<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>CFA 1611<br>EB-B-28-601<br>HPTF 601<br>TAN 601<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>SI 220 HP<br>SI 40 HP<br>SI 110 HP<br>SI 55 HP<br>CI 80 HP |
| §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 | | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | N/A | |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>CFA 1611<br>EB-B-28-601<br>HPTF 601<br>TAN 601<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>SI 220 HP<br>SI 40 HP<br>SI 110 HP<br>SI 55 HP<br>CI 80 HP |
| §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 | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>CI 80 HP |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | Yes | Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | CFA 1611<br>EB-B28-601<br>HPTF 601<br>TAN 601 | SI 220 HP<br>SI 40 HP<br>SI 110 HP<br>SI 55 HP |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A | |
| **Continuous Compliance Requirements** | | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A | |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | Yes | | See the respective §63.6640(a)-(f) subsection(s) explanation(s). | | |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>CFA 1611<br>EB-B-28-601<br>HPTF 601<br>TAN 601<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>SI 220 HP<br>SI 40 HP<br>SI 110 HP<br>SI 55 HP<br>CI 80 HP |

## 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6640(c) | [Reserved] | N/A | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | Yes | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 **CI 310 HP**<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(i) through (iii) of this section. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | No | Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Notifications, Reports, and Records** | | | | | |
| §63.6645 | What notifications must I submit and when? | Yes | | See the respective §63.6645(a)-(h) subsection(s) explanation(s). | |
| §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: | Yes | | See the respective §63.6645(a)(1)-(5) subsection(s) explanation(s). | |
| §63.6645(a)(1) | An existing stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>**CFA 688-047 CI 100 HP**<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>TAN 687 CI 80 HP |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | N/A |

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility is not located at an area source of HAP. | N/A |
| §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<br>Emer RICE | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>SI ≤ 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6650 | What reports must I submit and when? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | Yes | | See the respective §63.6655(a)-(f) subsection(s) explanation(s). | |
| §63.6655(a)(1)–(5) | Records required if you must comply with the emission and operating limitations. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §63.6655(b)(1)–(3) | Records required for each CEMS or CPMS. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | If necessary to demonstrate compliance with reducing CO emissions or limiting CO concentration, the facility may elect to install a CEMS or CPMS for one or more of the source(s) listed. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §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 | The facility 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP<br>TAN 601 SI 55 HP<br>TAN 687 CI 80 HP |
| §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 | | See the respective §63.6655(e)(1)-(2) subsection(s) explanation(s). | |
| §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. | Yes | Ex Emer CI ≤ 100 HP<br>Ex Emer SI ≤ 100 HP | The source(s) listed meet(s) this criterion. | EB-B-28-601 SI 40 HP<br>TAN 601 SI 55 HP |

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID | |
|---|---|---|---|---|---|---|
| §63.6655(e)(2) | An existing stationary emergency RICE. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>CFA 1611<br>EB-B-28-601<br>HPTF 601<br>TAN 601<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>SI 220 HP<br>SI 40 HP<br>SI 110 HP<br>SI 55 HP<br>CI 80 HP |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A | |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | Yes | | See the respective §63.6655(f) subsection(s) explanation(s). | | |
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>CI 80 HP |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A | |
| §63.6660 | In what form and how long must I keep my records? | Yes | | | | |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) these criteria. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>CFA 1611<br>EB-B-28-601<br>HPTF 601<br>TAN 601<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>SI 220 HP<br>SI 40 HP<br>SI 110 HP<br>SI 55 HP<br>CI 80 HP |
| **Other Requirements and Information** | | | | | | |
| §63.6665 | What parts of the General Provisions apply to me? | Yes | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The source(s) listed meet(s) this criterion. | CFA 609-001<br>CFA 688-047<br>CFA 1603-001<br>CFA 1603-002<br>PER 638-004<br>TAN 610-002<br>TAN 665-002<br>CFA 1611<br>EB-B-28-601<br>HPTF 601<br>TAN 601<br>TAN 687 | CI 166 HP<br>CI 100 HP<br>CI 196 HP<br>CI 196 HP<br>CI 196 HP<br>CI 310 HP<br>CI 310 HP<br>SI 220 HP<br>SI 40 HP<br>SI 110 HP<br>SI 55 HP<br>CI 80 HP |
| §63.6670(a)-(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A | |
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE | |
| **Tables** | | | | | | |
| **Table 1a** | **Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources** | No | N/A | The facility does not have sources that meet this criterion. | N/A | |

# 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| Table 1b | **Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP** | No | N/A | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | 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** | Yes | Ex CI<br>Ex SI ≤ 500 HP | See the respective Table 2c criteria explanation(s). | |
| 1 | Emergency stationary CI RICE and black start stationary CI RICE. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>TAN 687 CI 80 HP |
| 2 | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A |
| 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | No | Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | No | Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 6 | Emergency stationary SI RICE and black start stationary SI RICE. | No | Emer SI | The facility does not have sources that meet this criterion. | N/A |
| 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 8 to 11 | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| Table 2d | **Requirements for Existing Stationary RICE Located at Area Sources** | No | | The INL site is a major source of HAP. | N/A |
| Table 3 | **Subsequent Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | No | Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 4** | **Requirements for Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB, 4SLB, and CI Stationary RICE. | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 5** | **Initial Compliance With Emission Limitations and Operating Limitations** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 7, 8, 9 | 4SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | No | Ex Non Emer 100 ≤ HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | No | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| **Table 6** | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for CFA

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 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<br>Ex Non Emer < 100 HP | The source(s) listed meet(s) this criterion. | CFA 609-001 CI 166 HP<br>CFA 688-047 CI 100 HP<br>CFA 1603-001 CI 196 HP<br>CFA 1603-002 CI 196 HP<br>PER 638-004 CI 196 HP<br>TAN 610-002 CI 310 HP<br>TAN 665-002 CI 310 HP<br>CFA 1611 SI 220 HP<br>EB-B-28-601 SI 40 HP<br>HPTF 601 SI 110 HP |
| 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 | The facility 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 | | Ex Non Emer > 500 HP | The facility 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A |
| **Table 7** | **Requirements for Reports** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | Compliance Report | No | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All Stationary RICE |

Notes:

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please

2 ACRONYMS

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

LU = Limited Use

# 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c, d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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. | Yes | Ex > 500 HP | The source(s) listed meet(s) this criterion. | GEN-WCS-002 CI 2304 HP<br>GEN-WCS-004 CI 2304 HP<br>GEN-WCS-006 CI 2304 HP |
| §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. | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6590(a)(1)(iii) | Existing stationary RICE located at an area source of HAP emissions. | No | N/A | The INL site is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §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 | The facility 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. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)-(iii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | No | | The facility 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 | | The facility 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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. | Yes | | See the respective §63.6590(b)(3)(i)-(viii) subsection(s) explanation(s). The source(s) listed have no further requirements under this subpart and subpart A of this part. | |
| §63.6590(b)(3)(i)(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | 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. | Yes | Ex Emer > 500 HP | The source(s) listed meet(s) this criterion. | GEN-WCS-002 CI 2304 HP<br>GEN-WCS-004 CI 2304 HP<br>GEN-WCS-006 CI 2304 HP |
| §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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6590(b)(3)(v)-(vii) | 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 | The facility does not have sources that meet these criteria. | 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. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(c)(1)-(5) | Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE. | No | N/A | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criteron. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595 | When do I have to comply with this subpart? | Yes | | See the respective §63.6595(a)-(c) subsection(s) explanation(s). | |
| §63.6595(a) | Affected Sources. | Yes | | See the respective §63.6595(a)(1)-(7) subsection(s) explanation(s). | |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | Yes | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The source(s) listed meet(s) one or more of these criteria. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(c)(1)(2) | Area sources that become major sources. | No | N/A | The facility is not located at an area source of HAP. | 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. | Yes | EX Emer ≤ 500 HP<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The source(s) listed meet(s) one or more of these criteria. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | 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? | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6603(a)(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | Yes | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The source(s) listed meet(s) one or more of these criteria. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE. | No | N/A | The facility does not have sources that meet this criteria. | 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? | Yes | | See the respective §63.6612(a)-(b) subsection(s) explanation(s). | |
| §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. | Yes | Ex Non-Emer CI 100 ≤ HP ≤ 500 | The source(s) listed is/are required to conduct initial performance test(s). | COM-UTI-616 CI 460 HP |
| §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. | Yes | Ex Non-Emer CI 100 ≤ HP ≤ 500 | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | Yes | Ex Non Emer CI > 500 HP | The source(s) listed is/are required to conduct subsequent performance test(s). | COM-UTI-616 CI 460 HP |
| §63.6620(a)-(i) | What performance tests and other procedures must I use? | Yes | Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non Emer CI > 500 HP | The facility will submit Performance Test protocol to DEQ for approval prior to the test for the source(s) listed. | COM-UTI-616 CI 460 HP |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | Yes | | See the respective §63.6625(a)-(k) subsection(s) explanation(s). | |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | No | Ex Non Emer CI > 500 HP | The facility 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet this criterion. | 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 | | See the respective §63.6625(e)(1)-(2) subsection(s) explanation(s). | |
| §63.6625(e)(1) | Existing stationary RICE with a site rating of < 100 HP located at a major source. | Yes | Ex RICE < 100 HP | The source(s) listed meet(s) this criterion. | MOT-YDA-202 CI 82 HP |
| §63.6625(e)(2) | Existing emergency or black start stationary RICE with a site rating of < 500 HP located at a major source. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6625(e)(3)-(10) | Area source, 2SLB, 4SLB, 4SRB, landfill or digester gas. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §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<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>MOT-YDA-202 CI 82 HP |
| §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 | | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | N/A |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §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 | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | No | Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | Yes | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| **Continuous Compliance Requirements** | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | Yes | | See the respective §63.6640(a)-(f) subsection(s) explanation(s). | |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6640(c) | [Reserved] | N/A | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | Yes | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(i) through (iii) of this section. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | No | Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Notifications, Reports, and Records** | | | | | |
| §63.6645 | What notifications must I submit and when? | Yes | | See the respective §63.6645(a)-(h) subsection(s) explanation(s). | |
| §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: | Yes | | See the respective §63.6645(a)(1)-(5) subsection(s) explanation(s). | |
| §63.6645(a)(1) | An existing stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility is not located at an area source of HAP. | N/A |
| §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<br>Emer RICE | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>MOT-YDA-202 CI 82 HP |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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. | Yes | CI ≤ 500 HP<br>SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(g) | Notification of Intent to conduct a performance test as required in §63.7(b)(1). | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | Yes | | See the respective §63.6645(h)(1)-(2) subsection(s) explanation(s). | |

## 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6645(h)(1) | Notification of Compliance Status for compliance demonstrations that do not include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| §63.6650 | What reports must I submit and when? | Yes | | See the respective §63.6650(a)-(g) subsection(s) explanation(s). | |
| §63.6650(a) | You must submit each report in Table 7 of this subpart that applies to you. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| §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. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) these criteria. | COM-UTI-616 CI 460 HP |
| §63.6650(c)(1)–(6) | The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) these criteria. | COM-UTI-616 CI 460 HP |
| §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. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) these criteria. | COM-UTI-616 CI 460 HP |
| §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. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) these criteria. | COM-UTI-616 CI 460 HP |
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE CI 460 HP |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | Yes | | See the respective §63.6655(a)-(f) subsection(s) explanation(s). | |
| §63.6655(a)(1)-(5) | Records required if you must comply with the emission and operating limitations. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6655(b)(1)-(3) | Records required for each CEMS or CPMS. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | If necessary to demonstrate compliance with reducing CO emissions or limiting CO concentration, the facility may elect to install a CEMS or CPMS for one or more of the source(s) listed. | COM-UTI-616 CI 460 HP |
| §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 | The facility 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §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 | | See the respective §63.6655(e)(1)-(2) subsection(s) explanation(s). | |
| §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. | Yes | Ex Emer CI ≤ 100 HP<br>Ex Emer SI ≤ 100 HP | The source(s) listed meet(s) this criterion. | MOT-YDA-202 CI 82 HP |
| §63.6655(e)(2) | An existing stationary emergency RICE. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | Yes | | See the respective §63.6655(f) subsection(s) explanation(s). | |

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6660 | In what form and how long must I keep my records? | Yes | | | |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) these criteria. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| **Other Requirements and Information** | | | | | |
| §63.6665 | What parts of the General Provisions apply to me? | Yes | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>COM-UTI-616 CI 460 HP<br>MOT-YDA-202 CI 82 HP |
| §63.6670(a)-(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A |
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE |
| **Tables** | | | | | |
| **Table 1a** | **Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources** | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 1b** | **Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP** | No | N/A | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | 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** | Yes | Ex CI<br>Ex SI ≤ 500 HP | See the respective Table 2c criteria explanation(s). | |
| 1 | Emergency stationary CI RICE and black start stationary CI RICE. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | P-UTI-672 CI 370 HP<br>P-UTI-673 CI 370 HP<br>P-UTI-608 CI 340 HP<br>MOT-YDA-202 CI 82 HP |
| 2 | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | Yes | Non Emer CI 300 < HP ≤ 500 | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |
| 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | No | Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 6 | Emergency stationary SI RICE and black start stationary SI RICE. | No | Emer SI | The facility does not have sources that meet this criterion. | N/A |
| 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 8 to 11 | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| Table 3d | **Requirements for Existing Stationary RICE Located at Area Sources** | No | | The INL site is a major source of HAP. | N/A |
| **Table 3** | **Subsequent Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | No | Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 4** | **Requirements for Performance Tests** | Yes | | See the respective Table 4 criteria explanation(s). | |
| 1 | 2SLB, 4SLB, and CI Stationary RICE. | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE | Yes | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility may choose to limit CO concentrations for one or more of the listed source(s) and would subject to this criterion. | COM-UTI-616 CI 460 HP |
| **Table 5** | **Initial Compliance With Emission Limitations and Operating Limitations** | Yes | | See the respective Table 5 criteria explanation(s). | |
| 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 7, 8, 9 | 4SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | Yes | Ex Non Emer 100 ≤ HP ≤ 500 | The source(s) listed meet(s) this criterion. | COM-UTI-616 CI 460 HP |

## 40 CFR 63 Subpart ZZZZ Applicability for INTEC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID | |
|---|---|---|---|---|---|---|
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | Yes | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The source(s) listed meet(s) this criterion. | COM-UTI-616 | CI 460 HP |
| **Table 6** | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | Yes | | See the respective Table 6 criteria explanation(s). | | |
| 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A | |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A | |
| 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<br>Ex Non Emer < 100 HP | The source(s) listed meet(s) this criterion. | P-UTI-672<br>P-UTI-673<br>P-UTI-608<br>MOT-YDA-202 | CI 370 HP<br>CI 370 HP<br>CI 340 HP<br>CI 82 HP |
| 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 | The facility 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 | The facility 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A | |
| **Table 7** | **Requirements for Reports** | Yes | | See the respective Table 7 criteria explanation(s). | | |
| 1 | Compliance Report | Yes | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The source(s) listed meet(s) this criterion. | COM-UTI-616 | CI 460 HP |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A | |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All Stationary RICE | |

Notes:

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please

2 ACRONYMS

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

LU = Limited Use

# 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c), (d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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. | Yes | Ex > 500 HP | The source(s) listed meet(s) this criterion. | ANL 768-003 CI 741 HP<br>ANL 785-017 CI 525 HP |
| §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. | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6590(a)(1)(iii) | Existing stationary RICE located at an area source of HAP emissions. | No | N/A | The INL site is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §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 | The facility 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. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)-(iii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | Yes | | See the respective §63.6590(b)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(b)(1) | An affected source which needs to meet the initial notification requirements of §63.6645(f) only. | No | | The facility 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b)(3)(i)-(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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. | Yes | Ex Emer > 500 HP | The source(s) listed meet(s) this criterion. | ANL 768-003 CI 741 HP<br>ANL 785-017 CI 525 HP |
| §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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6590(b)(3)(v)-(vii) | 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 | The facility does not have sources that meet these criteria. | 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. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(c)(1)-(5) | Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE | No | N/A | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criteron. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595 | When do I have to comply with this subpart? | Yes | | See the respective §63.6595(a)-(c) subsection(s) explanation(s). | |
| §63.6595(a) | Affected Sources. | Yes | | See the respective §63.6595(a)(1)-(7) subsection(s) explanation(s). | |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | Yes | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The source(s) listed meet(s) one or more of these criteria. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(b)(1)(2) | Area sources that become major sources. | No | N/A | The facility is not located at an area source of HAP. | 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. | Yes | EX Emer ≤ 500 HP<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The source(s) listed meet(s) one or more of these criteria. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| **Emission and Operating Limitations** | | | | | |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | 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?** | **Yes** | **Ex ≤ 500 HP** | **The source(s) listed meet(s) this criterion.** | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6603(a)(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | No | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The facility does not have sources that meet this criterion. | N/A |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The source(s) listed meet(s) one or more of these criteria. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE. | No | N/A | The facility does not have sources that meet this criteria. | 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 | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that are required to conduct performance tests. | 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 | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | No | Ex Non Emer CI > 500 HP | The facility 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<br>Ex Non Emer CI > 500 HP | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | No | Ex Non Emer CI > 500 HP | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | 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 | | See the respective §63.6625(e)(1)-(2) subsection(s) explanation(s). | |
| §63.6625(e)(1) | Existing stationary RICE with a site rating of < 100 HP located at a major source. | Yes | Ex RICE < 100 HP | The source(s) listed meet(s) this criterion. | ANL 704-015 CI 86 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 754-003 CI 77 HP<br>ANL 798-008 CI 27 HP |

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6625(e)(2) | Existing emergency or black start stationary RICE with a site rating of < 500 HP located at a major source. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6625(e)(3)-(10) | Area source, 2SLB, 4SLB, 4SRB, landfill or digester gas. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §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<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §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 | | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | N/A |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003, CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | No | Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Continuous Compliance Requirements** | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | No | | The facility does not have sources that meet these criteria. | N/A |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6640(c) | Reserved | N/A | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | Yes | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(I) through (iii) of this section. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | No | Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Notifications, Reports, and Records** | | | | | |
| §63.6645 | What notifications must I submit and when? | Yes | | See the respective §63.6645(a)-(h) subsection(s) explanation(s). | |
| §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: | Yes | | See the respective §63.6645(a)(1)-(5) subsection(s) explanation(s). | |
| **§63.6645(a)(1)** | **An existing stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions.** | **Yes** | **Ex Emer CI ≤ 500 HP**<br>Ex Non Emer CI ≤ 500 HP | **The source(s) listed meet(s) this criterion.** | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL. 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility is not located at an area source of HAP. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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<br>Emer RICE | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>SI ≤ 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6650 | What reports must I submit and when? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | Yes | | See the respective §63.6655(a)-(f) subsection(s) explanation(s). | |
| §63.6655(a)(1)-(5) | Records required if you must comply with the emission and operating limitations. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6655(b)(1)-(3) | Records required for each CEMS or CPMS. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | If necessary to demonstrate compliance with reducing CO emissions or limiting CO concentration, the facility may elect to install a CEMS or CPMS for one or more of the source(s) listed. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §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 | The facility 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §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 | | See the respective §63.6655(e)(1)-(2) subsection(s) explanation(s). | |
| §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. | Yes | Ex Emer CI ≤ 100 HP<br>Ex Emer SI ≤ 100 HP | The source(s) listed meet(s) this criterion. | ANL 704-015 CI 86 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 754-003 CI 77 HP<br>ANL 798-008 CI 27 HP |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6655(e)(2) | An existing stationary emergency RICE. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | Yes | | See the respective §63.6655(f) subsection(s) explanation(s). | |
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6660 | In what form and how long must I keep my records? | Yes | | | |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) these criteria. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| **Other Requirements and Information** | | | | | |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6665 | What parts of the General Provisions apply to me? | Yes | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP<br>ANL 774-001 CI 166 HP<br>ANL 768-028 CI 173 HP<br>ANL 792A-002 CI 450 HP<br>ANL 798-008 CI 27 HP |
| §63.6670(a)-(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A |
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE |
| **Tables** | | | | | |
| **Table 1a** | **Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources** | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 1b** | **Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP** | No | N/A | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | 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** | Yes | Ex CI<br>Ex SI ≤ 500 HP | See the respective Table 2c criteria explanation(s). | |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID | |
|---|---|---|---|---|---|---|---|
| | 1 | Emergency stationary CI RICE and black start stationary CI RICE. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | ANL 701-009<br>ANL 704-015<br>ANL 707-002<br>ANL 709-008<br>ANL 709-016<br>ANL 720-017<br>ANL 720-018<br>ANL 725<br>ANL 752A-001<br>ANL 754-003<br>ANL 774-001<br>ANL 768-028<br>ANL 792A-002<br>ANL 798-008 | CI 143 HP<br>CI 86 HP<br>CI 460 HP<br>CI 475 HP<br>CI 475 HP<br>CI 173 HP<br>CI 46 HP<br>CI 46 HP<br>CI 390 HP<br>CI 77 HP<br>CI 166 HP<br>CI 173 HP<br>CI 450 HP<br>CI 27 HP |
| 2 | | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A | |
| | 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A | |
| | 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | No | Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A | |
| | 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | No | Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A | |
| | 6 | Emergency stationary SI RICE and black start stationary SI RICE. | No | Emer SI | The facility does not have sources that meet this criterion. | N/A | |
| | 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A | |
| 8 to 11 | | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A | |
| Table 2d | | **Requirements for Existing Stationary RICE Located at Area Sources** | No | | The INL site is a major source of HAP. | N/A | |
| Table 3 | | **Subsequent Performance Tests** | Yes | | See the respective Table 3 criteria explanation(s). | | |
| | 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A | |
| 2 | | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A | |
| | 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A | |
| | 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | No | Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A | |
| | 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A | |
| Table 4 | | **Requirements for Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A | |
| | 1 | 2SLB, 4SLB, and CI Stationary RICE. | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A | |
| 2 | | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A | |
| | 3 | Stationary RICE | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A | |
| Table 5 | | **Initial Compliance With Emission Limitations and Operating Limitations** | No | | The facility does not have sources that meet these criteria. | N/A | |
| | 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A | |
| | 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A | |
| | 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A | |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 7, 8, 9 | 4SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | No | Ex Non Emer 100 ≤ HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | No | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| Table 6 | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| 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<br>Ex Non Emer < 100 HP | The source(s) listed meet(s) this criterion. | ANL 701-009 CI 143 HP<br>ANL 704-015 CI 86 HP<br>ANL 707-002 CI 460 HP<br>ANL 709-008 CI 475 HP<br>ANL 709-016 CI 475 HP<br>ANL 720-017 CI 173 HP<br>ANL 720-018 CI 46 HP<br>ANL 725 CI 46 HP<br>ANL 752A-001 CI 390 HP<br>ANL 754-003 CI 77 HP |
| 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 | The facility 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 | The facility 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for MFC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **Table 7** | **Requirements for Reports** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | Compliance Report | No | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All Stationary RICE |

**Notes:**

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please

2 ACRONYMS

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

LU = Limited Use

# 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c, d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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. | Yes | Ex > 500 HP | The source(s) listed meet(s) this criterion. | NRF 686-016 CI 1445 HP<br>NRF 686-017 CI 1445 HP<br>NRF 686-018 CI 1445 HP<br>NRF 686-019 CI 1445 HP |
| §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 | The facility 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. | No | N/A | The INL site is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §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 | The facility 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. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)-(iii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | Yes | | See the respective §63.6590(b)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(b)(1) | An affected source which needs to meet the initial notification requirements of §63.6645(f) only. | No | | The facility 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b)(3)(i)(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | 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. | Yes | Ex Emer > 500 HP | The source(s) listed meet(s) this criterion. | NRF 686-016 CI 1445 HP<br>NRF 686-017 CI 1445 HP<br>NRF 686-018 CI 1445 HP<br>NRF 686-019 CI 1445 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6590(c) | Stationary RICE subject to Regulations under 40 CFR Part 60. No further requirements apply for such engines under this part. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(c)(1)-(5) | Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE. | No | N/A | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criteron. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595 | When do I have to comply with this subpart? | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6595(a) | Affected Sources. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | No | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(b)(1)(2) | Area sources that become major sources. | No | N/A | The facility is not located at an area source of HAP. | 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<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The facility does not have sources that meet these criteria. | N/A |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6603(a)(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | No | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The facility does not have sources that meet this criterion. | N/A |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE. | No | N/A | The facility does not have sources that meet this criteria. | 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 | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that are required to conduct performance tests. | 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 | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | No | Ex Non Emer CI > 500 HP | The facility 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<br>Ex Non Emer CI > 500 HP | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | No | Ex Non Emer CI > 500 HP | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6625(e)(3)-(10) | Area sources, 2SLB, 4SLB, 4SRB, landfill or digester gas. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §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 | | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | No | Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Continuous Compliance Requirements** | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | No | | The facility does not have sources that meet these criteria. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(c) | [Reserved] | N/A | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | No | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(i) through (iii) of this section. | No | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | No | Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Notifications, Reports, and Records** | | | | | |
| §63.6645 | What notifications must I submit and when? | No | | The facility does not have sources that meet these criteria. | 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 | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility is not located at an area source of HAP. | N/A |
| §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. | No | Ex RICE < 100 HP<br>Emer RICE | The facility does not have sources that meet this criterion. | N/A |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>SI ≤ 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6650 | What reports must I submit and when? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(b)(1)–(3) | Records required for each CEMS or CPMS. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility 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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility 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). | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Emer SI ≤ 100 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(e)(2) | An existing stationary emergency RICE. | No | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | No | Ex Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6660 | In what form and how long must I keep my records? | No | | | N/A |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| **Other Requirements and Information** | | | | | |
| §63.6665 | What parts of the General Provisions apply to me? | No | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The facility does not have sources that meet this criterion. | N/A |
| §63.6670(a)–(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE |
| **Tables** | | | | | |
| Table 1a | Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| Table 1b | Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE > 500 HP | No | N/A | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | 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 | Ex CI<br>Ex SI ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 1 | Emergency stationary CI RICE and black start stationary CI RICE. | No | Ex Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A |
| 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | No | Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | No | Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 6 | Emergency stationary SI RICE and black start stationary SI RICE. | No | Emer SI | The facility does not have sources that meet this criterion. | N/A |
| 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 8 to 11 | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| Table 2d | Requirements for Existing Stationary RICE Located at Area Sources | No | | The INL site is a major source of HAP. | N/A |
| Table 3 | Subsequent Performance Tests | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | No | Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 4** | **Requirements for Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB, 4SLB, and CI Stationary RICE. | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 5** | **Initial Compliance With Emission Limitations and Operating Limitations** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emisaions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 7, 8, 9 | 4SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | No | Ex Non Emer 100 ≤ HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | No | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| **Table 6** | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for NRF

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 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 | No | Ex Emer ≤ 500 HP<br>Ex Non Emer < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 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 | The facility 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 | The facility 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A |
| **Table 7** | **Requirements for Reports** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | Compliance Report | No | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All Stationary RICE |

Notes:

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please

2 ACRONYMS

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

LU = Limited Use

NRF's table will be sent when approved by Naval Reactors Idaho Branch Office.

# 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c, d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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 | The facility 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. | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6590(a)(1)(iii) | Existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | Yes | | See the respective §63.6590(a)(2)(i)-(iii) subsection(s) explanation(s). | |
| §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 | The facility does not have sources that meet this criterion. | N/A |
| §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. | Yes | New ≤ 500 HP | The source(s) listed meet(s) this criterion. | S GEN T1401 SI 15 HP |
| §63.6590(a)(2)(iii) | New stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)-(iii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | No | | The facility 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 | | The facility 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b)(3)(i)(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6590(b)(3)(v)-(vii) | 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 | The facility does not have sources that meet these criteria. | 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 | | See the respective §63.6590(c)(1)-(7) subsection(s) explanation(s). | |

## 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6590(c)(1)-(5) | Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE | No | N/A | The facility does not have sources that meet these criteria. | 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. | Yes | New/LU Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. No other requirements of this Part apply for the source(s) listed. | S GEN T1401 SI 15 HP |
| §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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595 | When do I have to comply with this subpart? | Yes | | See the respective §63.6595(a)-(c) subsection(s) explanation(s). | |
| §63.6595(a) | Affected Sources. | Yes | | See the respective §63.6595(a)(1)-(7) subsection(s) explanation(s). | |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | Yes | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The source(s) listed meet(s) one or more of these criteria. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(b)(1)(2) | Area sources that become major sources. | No | N/A | The facility is not located at an area source of HAP. | 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. | Yes | EX Emer ≤ 500 HP<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The source(s) listed meet(s) one or more of these criteria. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | 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? | Yes | Ex ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |

# 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6603(a)(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | No | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The facility does not have sources that meet this criterion. | N/A |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The source(s) listed meet(s) one or more of these criteria. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE. | No | N/A | The facility does not have sources that meet this criteria. | 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 | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that are required to conduct performance tests. | 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 | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | No | Ex Non Emer CI > 500 HP | The facility 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<br>Ex Non Emer CI > 500 HP | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | Yes | | See the respective §63.6625(a)-(k) subsection(s) explanation(s). | |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | No | Ex Non Emer CI > 500 HP | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | 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 | | See the respective §63.6625(e)(1)-(2) subsection(s) explanation(s). | |

# 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6625(e)(1) | Existing stationary RICE with a site rating of < 100 HP located at a major source. | No | Ex RICE < 100 HP | The facility does not have sources that meet this criterion. | 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6625(e)(3)-(10) | Area source, 2SLB, 4SLB, 4SRB, landfill or digester gas | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §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<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §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 | | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | N/A |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §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 | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion and have the option to utilize an oil analysis program. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | No | Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Continuous Compliance Requirements** | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | Yes | | See the respective §63.6640(a)-(f) subsection(s) explanation(s). | |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6640(c) | [Reserved] | No | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | Yes | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(i) through (iii) of this section. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | No | Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Notifications, Reports, and Records** | | | | | |

## 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6645 | What notifications must I submit and when? | Yes | | See the respective §63.6645(a)-(h) subsection(s) explanation(s). | |
| §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: | Yes | | See the respective §63.6645(a)(1)-(5) subsection(s) explanation(s). | |
| §63.6645(a)(1) | An existing stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility is not located at an area source of HAP. | N/A |
| §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<br>Emer RICE | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>SI ≤ 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6650 | What reports must I submit and when? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | Yes | | See the respective §63.6655(a)-(f) subsection(s) explanation(s). | |
| §63.6655(a)(1)-(5) | Records required if you must comply with the emission and operating limitations. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6655(b)(1)-(3) | Records required for each CEMS or CPMS. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility 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. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §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 | | See the respective §63.6655(e)(1)-(2) subsection(s) explanation(s). | |
| §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<br>Ex Emer SI ≤ 100 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(e)(2) | An existing stationary emergency RICE. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | Yes | | See the respective §63.6655(f) subsection(s) explanation(s). | |
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6660 | In what form and how long must I keep my records? | Yes | | | |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | Yes | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The source(s) listed meet(s) these criteria. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| **Other Requirements and Information** | | | | | |
| §63.6665 | What parts of the General Provisions apply to me? | Yes | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| §63.6670(a)-(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A |
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE |
| **Tables** | | | | | |
| Table 1a | Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| Table 1b | Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP | No | N/A | The facility does not have sources that meet this criterion. | N/A |

# 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | 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** | Yes | Ex CI<br>Ex SI ≤ 500 HP | See the respective Table 2c criteria explanation(s). | |
| 1 | Emergency stationary CI RICE and black start stationary CI RICE. | Yes | Ex Emer CI ≤ 500 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| 2 | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A |
| 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | No | Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | No | Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 6 | Emergency stationary SI RICE and black start stationary SI RICE. | No | Emer SI | The facility does not have sources that meet this criterion. | N/A |
| 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 8 to 11 | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| **Table 2d** | **Requirements for Existing Stationary RICE Located at Area Sources** | No | | The INL site is a major source of HAP. | N/A |
| **Table 3** | **Subsequent Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | No | Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 4** | **Requirements for Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB, 4SLB, and CI Stationary RICE. | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 2 | 4SPB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| Table 5 | **Initial Compliance With Emission Limitations and Operating Limitations** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 7, 8, 9 | 2SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | No | Ex Non Emer 100 ≤ HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | No | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| Table 6 | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | Yes | | See the respective Table 6 criteria explanation(s). | |
| 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for RWMC-CWI

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 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<br>Ex Non Emer < 100 HP | The source(s) listed meet(s) this criterion. | FW-ENG-3901 CI 255 HP<br>FW-ENG-4301 CI 140 HP<br>S GEN-0301 SI 290 HP |
| 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 | The facility 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 | The facility 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A |
| **Table 7** | **Requirements for Reports** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | Compliance Report | No | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All Stationary RICE |

Notes:

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please

2 ACRONYMS

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

LU = Limited Use

# 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| **What This Subpart Covers** | | | | | |
| §63.6580 | What is the purpose of subpart ZZZZ? | Yes | All Stationary RICE | The facility operates stationary RICE and is located at a major source of HAP. | All Stationary RICE |
| §63.6585 | Am I subject to this subpart? | Yes | All Stationary RICE | The facility operates stationary RICE. | All Stationary RICE |
| §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 | The facility operates stationary RICE. | All Stationary RICE |
| §63.6585(b) | Applies to major sources of HAP. | Yes | All Stationary RICE | The facility is located at a major source of HAP. | All Stationary RICE |
| §63.6585(c, d) | Applies to area sources of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6585(e) | Applies to national security exemptions. | No | N/A | The facility is not claiming a national security exemption. | N/A |
| §63.6590 | What parts of my plant does this subpart cover? | Yes | | See the respective §63.6590(a)-(c) subsection(s) explanation(s). | |
| §63.6590(a) | Affected source. | Yes | | See the respective §63.6590(a)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(a)(1) | Existing stationary RICE. | Yes | | See the respective §63.6590(a)(1)(i)-(iv) subsection(s) explanation(s). | |
| §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. | Yes | Ex > 500 HP | The source(s) listed meet(s) this criterion. | TAN 675-010 CI 598 HP<br>TAN 679-012 CI 890 HP |
| §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 | The facility 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. | No | N/A | The INL site is a major source of HAP. | N/A |
| §63.6590(a)(1)(iv) | Change in ownership. | Yes | N/A | The source(s) listed meet(s) this criterion. | All Existing RICE |
| §63.6590(a)(2) | New stationary RICE. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §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 | The facility 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. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6590(a)(3)(i)-(ii) | Reconstructed stationary RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b) | Stationary RICE subject to limited requirements. | Yes | | See the respective §63.6590(b)(1)-(3) subsection(s) explanation(s). | |
| §63.6590(b)(1) | An affected source which needs to meet the initial notification requirements of §63.6645(f) only. | No | | The facility 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(b)(3)(i)(ii) | 2SLB and 4SLB | No | N/A | The facility does not have sources that meet these criteria. | 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. | Yes | Ex Emer > 500 HP | The source(s) listed meet(s) this criterion. | TAN 675-010 CI 598 HP<br>TAN 679-012 CI 890 HP |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6590(c)(1)-(5) | Area Sources, 2SLB, 4SLB, 4SRB, CI that combusts landfill or digester gas and new limited use RICE. | No | N/A | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | The facility does not have sources that meet this criteron. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595 | When do I have to comply with this subpart? | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6595(a) | Affected Sources. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6595(a)(1) | •Existing stationary RICE, excluding existing non-emergency CI stationary RICE, > 500 brake HP located at a major source of HAP emissions no later than June 15, 2007.<br>•Existing non-emergency CI stationary RICE > 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.<br>•Existing stationary SI RICE < 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. | No | Ex CI > 500 HP<br>Ex Non Emer CI RICE<br>Ex SI RICE < 500 HP<br>Ex CI ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| §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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6595(a)(6)(7) | If you start up your new or reconstructed stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6595(b)(1)(2) | Area sources that become major sources. | No | N/A | The facility is not located at an area source of HAP. | 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<br>Ex Non-Emer CI 100 ≤ HP ≤ 500<br>Ex Non-Emer CI > 500 HP<br>New Emer > 500HP | The facility does not have sources that meet these criteria. | N/A |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | 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<br>Emer > 500 HP<br>LU > 500 HP | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6601 | What emission limitations must I meet for 4SLB stationary RICE? | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6603(a)(b) | 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? | No | N/A | The facility is not located at an area source of HAP. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6604 | What fuel requirements must I meet if I own or operate an existing stationary CI RICE? | No | Ex Non Emer CI > 300 HP (non-black start, displacement < 30 liters per cylinder) | The facility does not have sources that meet this criterion. | N/A |
| **General Compliance Requirements** | | | | | |
| §63.6605(a)(b) | What are my general requirements for complying with this subpart?<br>(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.<br>(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. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer > 500 HP that are not LU<br>New Emer > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| **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 > 500 brake HP located at a major source of HAP emissions? | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| §63.6611 | 4SLB SI stationary RICE | No | N/A | The facility does not have sources that meet this criteria. | 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 | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that are required to conduct performance tests. | 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 | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6615 | When must I conduct subsequent performance tests of Table 3? | No | Ex Non Emer CI > 500 HP | The facility 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<br>Ex Non Emer CI > 500 HP | The facility does not have sources that are required to conduct performance tests. | N/A |
| §63.6625 | Monitoring, installation, operation, and maintenance requirements. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6625(b) | Install, operate, and maintain each CPMS according to the requirements in paragraphs (1)-(6). | No | Ex Non Emer CI > 500 HP | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | 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. | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6625(e)(3),(f),(i) | Area source, 2SLB, 4SLB, 4SRB, landfill or digester gas. | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §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 | | The facility 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 | The facility 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 | The facility does not have sources that meet this criterion. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6625(j) | If you own or operate a stationary engine subject to the work, operation or management practices in items 6, 7, or 8 of Table 2c to this subpart or 5, 6, 7, 9, or 11 of Table 2d, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement. | No | Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6630(a)-(c) | How do I demonstrate initial compliance with the emission limitations and operating limitations? | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Continuous Compliance Requirements** | | | | | |
| §63.6635(a)-(c) | How do I monitor and collect data to demonstrate continuous compliance? | No | Ex Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| §63.6640 | How do I demonstrate continuous compliance with the emission limitations and operating limitations? | No | | The facility does not have sources that meet these criteria. | N/A |
| §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. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(c) | [Reserved] | N/A | N/A | N/A | 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. | No | New RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(e) | Report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. | No | New RICE ≤ 500 HP<br>Emer RICE> 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(f)(1)(i)-(iii) | If you own or operate an existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions installed on or after June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(1)(i) through (iii) of this section. | No | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6640(f)(2)(i)-(iii) | If you own or operate an emergency stationary RICE with a site rating of > 500 brake HP or a new emergency stationary RICE with a site rating of > 500 brake HP located at a major source of HAP emissions installed prior to June 12, 2006, you must operate the engine according to the conditions described in paragraphs (f)(2)(i) through (iii) of this section. | No | Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Notifications, Reports, and Records** | | | | | |
| §63.6645 | What notifications must I submit and when? | No | | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §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 | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(a)(2) | An existing stationary RICE located at an area source of HAP emissions. | No | N/A | The facility is not located at an area source of HAP. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility is not located at an area source of HAP. | N/A |
| §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. | No | Ex RICE < 100 HP<br>Emer RICE | The facility does not have sources that meet this criterion. | N/A |
| §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<br>New Emer > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>SI ≤ 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h) | Performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart. | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6645(h)(2) | Notification of Compliance Status for compliance demonstrations that include a performance test. | No | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6650 | What reports must I submit and when? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| §63.6650(f) | Reporting deviations. | Yes | Ex Non Emer > 500 HP<br>Ex Non Emer ≤ 500 HP | The source(s) listed meet(s) this criterion. | All Stationary RICE |
| §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 | The facility does not have sources that meet these criteria. | N/A |
| §63.6655 | What records must I keep? | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(b)(1)-(3) | Records required for each CEMS or CPMS. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | The facility 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<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility 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). | No | | The facility does not have sources that meet these criteria. | 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<br>Ex Emer SI ≤ 100 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(e)(2) | An existing stationary emergency RICE. | No | Ex Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(e)(3) | An existing stationary RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6655(f) | Records required for the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. | No | | The facility does not have sources that meet these criteria. | N/A |
| §63.6655(f)(1) | An existing emergency stationary RICE with a site rating of ≤ 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. | No | Ex Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| §63.6655(f)(2) | Emergency RICE located at an area source of HAP. | No | N/A | The facility is not located at an area source of HAP. | N/A |
| §63.6660 | In what form and how long must I keep my records? | No | | | N/A |
| §63.6660(a)(b)(c) | Records must be suitable, readily accessible in hard copy or electronic form, and kept for at least 5 years. | No | Ex Emer CI ≤ 500 HP<br>Ex Non Emer CI ≤ 500 HP<br>Ex Emer SI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| **Other Requirements and Information** | | | | | |
| §63.6665 | What parts of the General Provisions apply to me? | No | All Stationary RICE, except:<br>Ex LU > 500 HP<br>Ex Emer > 500 HP<br>New CI ≤ 500 HP regulated under 40 CFR Part 60 Subpart IIII or JJJJ | The facility does not have sources that meet this criterion. | N/A |
| §63.6670(a)-(c) | Who implements and enforces this subpart? | No | N/A | Not applicable to the INL. | N/A |
| §63.6675 | What definitions apply to this subpart? | Yes | All Stationary RICE | Definitions are applicable to all stationary RICE. | All Stationary RICE |
| **Tables** | | | | | |
| **Table 1a** | **Emission Limits for Existing, New, and Reconstructed Spark Ignition, 4SRB > 500 HP at Major Sources** | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 1b** | **Operating Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary Rice > 500 HP** | No | N/A | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 1 | 2SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SLB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | CI stationary RICE | No | New Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | 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 | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | N/A |
| 2 | 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and limit formaldehyde concentration not using an oxidation catalyst | No | Ex Non Emer CI > 500 HP that are not LU<br>New Non Emer CI > 500 HP that are not LU | The facility does not have sources that meet this criterion. | 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 | Ex CI<br>Ex SI ≤ 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 1 | Emergency stationary CI RICE and black start stationary CI RICE. | No | Ex Emer CI ≤ 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Non-Emergency, non-black start stationary CI RICE < 100 HP. | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Non-Emergency, non-black start CI stationary RICE 100 ≤ HP ≤ 300 HP. | No | Non Emer CI 100 ≤ HP ≤ 300 | The facility does not have sources that meet this criterion. | N/A |
| 4 | Non-Emergency, non-black start CI stationary RICE 300 < HP ≤ 500. | No | Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 5 | Non-Emergency, non-black start stationary CI RICE > 500 HP. | No | Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 6 | Emergency stationary SI RICE and black start stationary SI RICE. | No | Emer SI | The facility does not have sources that meet this criterion. | N/A |
| 7 | Non-Emergency, non-black start stationary SI RICE < 100 HP that are not 2SLB stationary RICE. | No | Non Emer SI < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 8 to 11 | Non-Emergency, non-black start 2SLB, 4SLB, 4SRB | No | N/A | The facility does not have sources that meet these criteria. | N/A |
| **Table 2d** | **Requirements for Existing Stationary RICE Located at Area Sources** | No | | The INL site is a major source of HAP. | N/A |
| **Table 3** | **Subsequent Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | New or reconstructed CI stationary RICE with a brake horsepower > 500 located at major sources; new or reconstructed 2SLB or 4SLB | No | New CI > 500 HP that are not LU or Emer | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE with a brake horsepower > 500 located at major sources and new or reconstructed 4SLB | No | Non Emer SI RICE > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 4 | Existing non-emergency, non-black start CI RICE with a brake horsepower > 500 that are not limited use; 4SLB and 4SRB | No | Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 5 | Existing non-emergency, non-black start CI stationary RICE with a brake horsepower > 500 that are limited use stationary RICE; 4SLB and 4SRB | No | Ex Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 4** | **Requirements for Performance Tests** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | 2SLB, 4SLB, and CI Stationary RICE. | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| 3 | Stationary RICE | No | Ex Non Emer CI ≤ 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| **Table 5** | **Initial Compliance With Emission Limitations and Operating Limitations** | No | | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 1 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB, or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and using oxidation catalyst and CPMS | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 2 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CPMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 3 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 4 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO and not using oxidation catalyst. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 5 | New or reconstructed non-emergency CI stationary RICE > 500 HP located at a major source of HAP; 2SLB, 4SLB or existing non-emergency CI stationary RICE > 500 HP - Reducing CO emissions and not using an oxidation catalyst | No | New Non Emer > 500 HP<br>Ex Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 6 | Non-emergency stationary CI RICE >500 HP located at a major source of HAP that are operated more than 24 hours per calendar year - Limit the concentration of CO using oxidation catalyst, and using a CEMS. | No | Non Emer CI > 500 HP | The facility does not have sources that meet these criteria. | N/A |
| 7, 8, 9 | 4SRB | No | | The facility does not have sources that meet these criteria. | N/A |
| 10 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde with oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 11 | New or reconstructed non-emergency stationary RICE > 500 HP located at a major source, 4SLB, 4SRB - limit formaldehyde without oxidation catalyst or NSCR | No | New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 12 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 <HP ≤ 500 located at an area source of HAP - reduce CO or formaldehyde | No | Ex Non Emer 100 ≤ HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| 13 | Existing non-emergency stationary RICE 100 ≤ HP ≤ 500 located at a major source of HAP, and existing non-emergency stationary CI RICE 300 < HP ≤ 500 located at an area source of HAP - limit CO or formaldehyde in exhaust | No | Ex Non Emer 100 < HP ≤ 500<br>Ex Non Emer CI 300 < HP ≤ 500 | The facility does not have sources that meet this criterion. | N/A |
| **Table 6** | **Continuous Compliance With Emission Limitations, Operating Limitations, Work Practices, and Management Practices** | No | | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet these criteria. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet these criteria. | N/A |
| 4 to 6 | 4SRB | No | N/A | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | 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 | The facility does not have sources that meet this criterion. | N/A |
| 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 | No | Ex Emer ≤ 500 HP<br>Ex Non Emer < 100 HP | The facility does not have sources that meet this criterion. | N/A |
| 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 | The facility does not have sources that meet these criteria. | N/A |

## 40 CFR 63 Subpart ZZZZ Applicability for SMC

| Sections | Requirement[1] | Applicable | Engine Category[2] | Explanation | Equipment ID |
|---|---|---|---|---|---|
| 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 | The facility 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 | The facility 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 | The facility does not have sources that meet these criteria. | N/A |
| **Table 7** | **Requirements for Reports** | No | | The facility does not have sources that meet these criteria. | N/A |
| 1 | Compliance Report | No | Ex Non Emer 100≤HP≤500<br>Ex Non Emer CI > 500 HP<br>New Non Emer > 500 HP | The facility does not have sources that meet this criterion. | N/A |
| 2 | Report | No | N/A | The facility does not have sources that meet this criterion. | N/A |
| **Table 8** | **Applicability of General Provisions to Subpart ZZZZ** | Yes | All Stationary RICE | All applicable sections | All Stationary RICE |

**Notes:**

1 Requirements stated in this table are abbreviated from those in the regulation. For full citation please

2 ACRONYMS

Ex = Existing

Non Emer = Non-Emergency

Emer = Emergency

LU = Limited Use

# APPENDIX D – FRA FORM for SUBPART IIII PART 60

Idaho National Laboratory

July 17, 2012

CCN 227543

RECEIVED

JUL 20 2012

DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE AQ PROGRAM

Mr. Bill Rogers, Stationary Source Program Manager
Air Quality Division
Idaho Department of Environmental Quality
1410 N. Hilton
Boise, ID 83706

SUBJECT: Idaho National Laboratory Site Tier I Operating Permit Renewal Request for Additional Information

Reference: Email Communication from Harbi Elshafei to Tim Safford, March 15, 2012

Dear Mr. Rogers:

On behalf of the Department of Energy, Idaho Operations Office (DOE-ID), Battelle Energy Alliance (BEA) is submitting the information requested in the above referenced email in the following enclosures.

Enclosure 1 is the Federal Requirement Analysis which documents Idaho National Laboratory's (INL) compliance requirements under 40 CFR Part 60 - Standards of Performance for New Stationary Sources, Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines. Enclosure 2 is a summary of INL's Greenhouse gas equivalent potential to emit summary. Enclosure 3 is an updated summary of INL permit to construct emission limits for inclusion in the INL operating permit Statement of Basis. Also enclosed are certification statements from BEA and DOE-ID that meet the requirements of IDAPA 58.01.01.123, Certification of Documents.

Additionally, Mr. Elshafei requested an update on the INL as a major source for hazardous air pollutant (HAP) status. During the initial Title V permitting process it was determined that the INL was a major source of HAPs. The determination was made due to hydrochloric acid from the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) activity at Operable Unit 7-08 Organic Carbon in the Vadose Zone Project at the Radioactive Waste Management Complex exceeded ten tons annually. This CERCLA project has been the single activity at the INL that caused the site to be major source for HAPs. Current emissions are less than two tons, and since 2002, the emissions have been consistently trending downward. This is an on-stream process, therefore actual and potential emissions are the same.

With the pending start of the Integrated Waste Treatment Unit (IWTU) (Permit to Construct No. P-2008.0199), the INL will have a potential to emit that exceeds twenty-five tons per year cumulative total emissions of HAPs. If operations at the IWTU proceed as planned, waste treatment will be completed in less than one year. At this time the INL will no longer be a Major Source for HAPs as defined in Section 112(a)(1) of the Clean Air Act.

If you have any questions regarding this application, please contact Mark A. Verdoorn at (208) 526-8135.

Sincerely,

Jo Anna Stenzel, Director
Environmental Support and Services

MAV:LE

Enclosures

cc: J. Alvarez, INL, MS 3695
C. R. Anderson, ITG, MS 4207
P. K. Bowers, DOE-ID, MS 1226
N. Brooks, DOE-ID, MS 1203
S. D. Dossett, INL, MS 3405
EPA Region 10, Air Operating Permits OAQ-107
J. J. Grossenbacher, INL, MS 3695
D. P. Hutchison, CWI, MS 9208
S. M. Olson, DOE-ID, MS 1221
R. D. Owen, DEQ, Idaho Falls Office
T. L. Perkins, DOE-ID, MS 1216
R. E. Ramsey, NRF, MS 6001-11
T. J. Safford, DOE-ID, MS 1216
D. M. Storms, INL, MS 3898

**DOCUMENT CERTIFICATION**

**Department of Energy, Idaho Operations Office**

**Idaho National Laboratory Site Tier I Operating Permit Renewal Request for Additional Information**

**July 2012**

**CERTIFICATION**

In accordance with IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho), I certify based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signed: _____ Date: 7-16-2012

Raymond V. Furstenau
Principal Deputy Manager for Nuclear Energy

## DOCUMENT CERTIFICATION

**Battelle Energy Alliance**

**Idaho National Laboratory Site Tier I Operating Permit Renewal Request for Additional Information**

**June 2012**

## CERTIFICATION

In accordance with IDAPA 58.01.01.123 (Rules for the Control of Air Pollution in Idaho), I certify based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signed: Sharon Dossett Date: 6/20/2012

Sharon D. Dossett
Director of Environment, Safety, and Health

**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:<br>United States Department of Energy, Idaho Operations Office | 2. Facility Name:<br>Idaho National Laboratory |
| 3. Brief Project Description: Multipurpose National Research and Development Laboratory | |

| APPLICABILITY DETERMINATION | |
|---|---|
| 4. List applicable subparts of the New Source Performance Standards (NSPS) (40 CFR part 60).<br><br>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):<br><br>Subpart IIII – see Attachment FRA for regulatory analysis<br><br>☐ Not Applicable |
| 5. List applicable subpart(s) of the National Emission Standards for Hazardous Air Pollutants (NESHAP) found in 40 CFR part 61 and 40 CFR part 63.<br><br>Examples of affected emission units include solvent cleaning operations, industrial cooling towers, paint stripping and miscellaneous surface coating. EPA has a web page dedicated to NESHAP that should be useful to applicants. | List of applicable subpart(s):<br><br>☑ 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.<br><br>**Note** - 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. | ☑ A detailed regulatory review is provided (Follow instructions and example).<br><br>☐ DEQ has already been provided a detailed regulatory review. Give a reference to the document including the date. |

**IF YOU ARE UNSURE HOW TO ANSWER ANY OF THESE QUESTIONS, CALL THE AIR PERMIT HOTLINE AT 1-877-5PERMIT**

***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.***

# Instructions for Form FRA

**Item 4 & 5.** It is important that facilities review the most recent federal regulations when submitting their permit application to DEQ. Current federal regulations can be found at the following Web site: http://ecfr.gpoaccess.gov/cgi/t/text/text-idx?&c=ecfr&tpl=/ecfrbrowse/Title40/40tab_02.tpl.

**Item 6.** For each applicable subpart identified under items 4-5 conduct a complete regulatory analysis. The facility must follow the procedure given below or obtain permission from DEQ to provide the necessary information using an alternative procedure:

1. Retrieve a TEXT or PDF copy of the applicable federal regulation subpart(s) online at http://www.gpoaccess.gov/cfr/retrieve.html
2. Copy and paste the regulation(s) into your DEQ air permit application.
3. Highlight or underline sections in the regulation(s) that are applicable to the source(s).
4. Under each section of the subpart, explain why the source is subject to the section, or why the source is not subject to the section. When providing the explanation use a different font than the regulation (i.e. ***bold, italic***) so that it is easy for the reader to determine the text that the applicant has provided. An example NSPS regulatory analysis is attached. The applicant must provide all necessary information needed to determine applicability. If information is lacking or the analysis is incomplete the application will be determined incomplete.

   EPA provides a web site dedicated to NSPS/NESHAP applicability determinations that may be useful to applicants. Follow this link to the applicability determination index Clean Air Act Applicability Determination Index - Compliance Monitoring - EPA. Another useful source of information is the preamble to the regulation which is published in the Federal Register on the date the regulation was promulgated. Federal Registers may be found online at Federal Register: Main Page. The date the regulation was published in the Federal Register is included in the footnotes of the regulation.
5. DEQ will assist in identifying the applicable requirements that the applicant must include in the application but will not perform the required technical or regulatory analysis on the applicant's behalf. Applicants should contact the Air Quality Permit Hotline (1-877-573-7648) to discuss NSPS/NESHAP regulatory analysis requirements or to schedule a meeting.
6. It also benefits facilities to document a non-applicability determination on federal air regulations which appear to apply to the facility but actually do not. A non-applicability determination will avoid future confusion and expedite the air permit application review. If you conduct an applicability determination and find that your activity is not NSPS or NESHAP affected facility an analysis should be submitted using the methods described above.
7. **It is not sufficient to simply provide a copy of the NSPS or NESHAP. The applicant must address each section of the regulation as described above and as shown in the example that is provided.**

Part 60 - Standards of Performance for New Stationary Sources
Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Table of Contents
§4200. Am I subject to this subpart?
§4201. What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?
§4202. What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?
§4203. How long must my engines meet the emission standards if I am a manufacturer of stationary CI internal combustion engines?
§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?
§4205. What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?
§4206. How long must I meet the emission standards if I am an owner or operator of a stationary CI internal combustion engine?
§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?
§4208. What is the deadline for importing or installing stationary CI ICE produced in previous model years?
§4209. What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?
§4210. What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?
§4211. What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?
§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?
§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?
§4214. What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?
§4215. What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?
§4216. What requirements must I meet for engines used in Alaska?
§4217. What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?
§4218. What parts of the General Provisions apply to me?
§4219. What definitions apply to this subpart?
Table 1. 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.
Table 2. Emission Standards for 2008 Model Year and Later Emergency Stationary Ci Ice <37 Kw (50 Hp) With a Displacement of <10 Liters Per Cylinder
Table 3. Certification Requirements for Stationary Fire Pump Engines
Table 4. Emission Standards for Stationary Fire Pump Engines
Table 5. Labeling and Recordkeeping Requirements for New Stationary Emergency Engines
Table 6. Optional 3-Mode Test Cycle for Stationary Fire Pump Engines
Table 7. Requirements for Performance Tests for Stationary Ci Ice With a Displacement of≥30 Liters Per Cylinder
Table 8. Applicability of General Provisions to Subpart IIII

**Source:**
71 FR 39172, July 11, 2006, unless otherwise noted.

**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]

***The Idaho National Laboratory (INL) is subject to this subpart because the INL has four additional emergency stationary CI ICE that meets the applicable criteria under §60.4200(a) (2) (i).***

***The INL has commenced construction (i.e., ordered) or installed emergency power engine-generator sets at Advanced Test Reactor Complex (ATR-Complex), Central Facilities Area (CFA), Idaho Nuclear Technology and Engineering Complex (INTEC) and the Materials and Fuels Complex (MFC) at the INL.***

***Engine data are as follows:***

*CFA* *Equipment: CFA-668 Communications Building Emergency Diesel Generator*

*Commenced construction date (date ordered): May 18, 2010*

*Manufacturer: Cummins*

*Model No: QSL9-G2 NR3*

*SN: 73113280*

*Manufacture date: 2010*

*Power rating: 364 horsepower*

*Displacement (total): 8.9 liters (6 cylinders @ 1.48 liters per cylinder)*

*MFC* *Equipment: MFC Dial Room Standby Generator*

*Commenced construction date (date ordered): August 31, 2011*

*Manufacturer: Caterpillar*

*Model No: C6,6 DIT*

*SN: E6M03561*

*Manufacture date: 2011*

*Power rating: 230 horsepower*

*Displacement (total): 6.6 liters (6 cylinders @ 1.1 liters per cylinder)*

***ATR Complex***

*Equipment: Emergency Generator for ATR M-10 Emergency Coolant Pump and In-vessel Post Accident Monitoring System*

*Commenced construction date (date ordered): Remains to be ordered*

*Manufacturer: John Deere*

*Model No: 4045TF285*

*SN: TBD*

*Manufacture date: 2012*

*Power rating: 99 horsepower*

*Displacement (total): 4.5 liters (4 cylinders @ 1.1 liters per cylinder)*

*INTEC*

*Equipment: WMF-603 Emergency Standby Diesel Generator*

*Commenced construction date (date ordered): June 08, 2011*

*Manufacturer: Caterpillar*

*Model No: C9*

*SN: C9E02659*

*Manufacture date: August 15, 2011*

*Power rating: 398.3 horsepower*

*Displacement (total): 8.8 liters (6 cylinders @ 1.47 liters per cylinder)*

**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?**

***The INL is not subject to §60.4201 because the INL is not a stationary CI ICE 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]

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

***The INL is not subject to §60.4202 because the INL is not a stationary CI ICE 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]

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

***The INL is not subject to §60.4203 because the INL is not a stationary CI ICE manufacturer.***

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]

**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?**

***The INL is not subject to §60.4204 because the aforementioned stationary CI ICE are not non-emergency engines.***

(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 $NO_X$ 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 $NO_X$ 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 $NO_X$ 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]

**§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).
(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.
(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.
(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 $NO_X$ 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 $NO_X$ 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).
(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.
(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.
[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

***The aforementioned CI ICE have a displacement of less than 30 liters per cylinder, are 2007 model year or later, and are not fire pump engines. Therefore, these emergency stationary CI ICE are only subject to §60.4205(b) of this subpart.***

**§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.
[76 FR 37969, June 28, 2011]

***The INL is subject to §60.4206 because the aforementioned emergency stationary CI ICE are subject to the emission standards of §60.4205.***

**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 purchase diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.
(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).
(e) Stationary CI ICE that have a national security exemption under §60.4200(d) are also exempt from the fuel requirements in this section.
[71 FR 39172, July 11, 2006, as amended at 76 FR 37969, June 28, 2011]

***The INL is subject to §60.4207(b) because the aforementioned emergency stationary CI ICE are subject to this subpart.***

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

***The INL is subject to §60.4208(a) because the aforementioned are emergency stationary CI ICE are not fire pump engines and are not imported.***

**§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.

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

***The aforementioned emergency stationary CI ICE are subject to the monitoring requirements of §60.4211.***

***The aforementioned emergency stationary CI ICE are not subject to the monitoring requirements of §60.4209(a) because the engines purchased are certified in accordance with §60.4211(c) and the respective non-emergency standard. .***

***The aforementioned emergency stationary CI ICE are not subject to §60.4209(b) because they are not subject to §60.4204 which is for non-emergency engines.***

**Compliance Requirements**

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

***The INL is not subject to §60.4210 because the INL is not a stationary CI ICE 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]

**§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.

(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.
(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.
(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 $NO_X$ 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 $NO_X$ 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.
(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.
(f) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. 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 year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to

generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited.

(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.

[71 FR 39172, July 11, 2006, as amended at 76 FR 37970, June 28, 2011]

***The INL is subject to §60.4211(a) because the aforementioned stationary CI ICE are subject to the emission standards specified in §60.4205(b).***

***The INL is subject to §60.4211(g) as an option. The INL plans to install, configure, operate, and maintain each stationary CI ICE according to the manufacturer's emission-related written instructions. Should the INL choose not to follow any of the manufacturer's emission-related written instructions §60.4211(g) will be exercised for the respective stationary CI ICE.***

***The INL is subject to §60.4211(c) because the aforementioned stationary CI ICE are 2007 model year or later must comply with the emission standards specified in §60.4205(b). Because the aforementioned stationary CI ICE are not fire pump engines, table 3 is not applicable to this subpart.***

***The INL is subject to §60.4211(f) because the aforementioned stationary CI ICE are emergency stationary ICE.***

***The INL is not subject to §60.4211(b) because the aforementioned CI ICE are a post 2007 model year.***

***The INL is not subject to §60.4211(d) because the aforementioned CI ICE are not subject to the emission standards specified in §60.4204(c) or §60.4205(d).***

***The INL is not subject to §60.4211(e) because the aforementioned CI ICE are not modified or reconstructed CI ICE.***

**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?**

***The INL is not subject to §60.4212 because performance tests are not currently required for the aforementioned stationary CI ICE. If §60.4211(g) is exercised by the INL§60.4212 would become applicable.***

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:

NTE requirement for each pollutant = (1.25) × (STD) (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]

**§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?**

***The INL is not subject to §60.4213 because the aforementioned stationary CI ICE displacements are less than 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:

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

Where:
$C_i$= concentration of $NO_X$ or PM at the control device inlet,
$C_o$= concentration of $NO_X$ or PM at the control device outlet, and
R = percent reduction of $NO_X$ or PM emissions.

(2) You must normalize the $NO_X$ or PM concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen ($O_2$) using Equation 3 of this section, or an equivalent percent carbon dioxide ($CO_2$) using the procedures described in paragraph (d)(3) of this section.

$$C_{adj} = C_d \frac{5.9}{20.9 - \%O_2} \qquad \text{(Eq. 3)}$$

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.
5.9 = 20.9 percent $O_2$-15 percent $O_2$, the defined $O_2$correction value, percent.
$\%O_2$= Measured $O_2$concentration, dry basis, percent.

(3) If pollutant concentrations are to be corrected to 15 percent $O_2$and $CO_2$concentration is measured in lieu of $O_2$concentration measurement, a $CO_2$correction factor is needed. Calculate the $CO_2$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:

$$F_o = \frac{0.209 F_d}{F_c} \qquad \text{(Eq. 4)}$$

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.
$F_d$= Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, $dsm^3$ /J (dscf/$10^6$ Btu).
$F_c$= Ratio of the volume of $CO_2$produced to the gross calorific value of the fuel from Method 19, $dsm^3$ /J (dscf/$10^6$ Btu).

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

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

Where:
$X_{CO2}$= $CO_2$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:

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

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:

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

Where:
ER = Emission rate in grams per KW-hour.
$C_d$= Measured $NO_X$ concentration in ppm.
$1.912x10^{-3}$= 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:

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

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]

**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.
(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.
(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.

***The aforementioned stationary CI ICE are partially subject only to §60.4214(b) because they are emergency stationary ICE. Therefore, an initial notification is not required as stated in this section.***

***The aforementioned stationary CI ICE are not subject to the latter requirement of §60.4214(b) to keep records of the operation of the engine in emergency and non-emergency service and the reason the engine was in operation because the CFA CI ICE is not a model year listed in table 5 to Subpart IIII of Part 60; and the CI ICE installed at MFC, INTEC and ATR Complex are certified to the emission standard for the respective model year non-emergency engine.***

***The aforementioned stationary CI ICE are not subject §60.4214(a) because they are emergency stationary CI ICE.***

***The aforementioned stationary CI ICE are not subject §60.4214(c) because they are not equipped with a diesel particulate filter.***

**Special Requirements**

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

***The INL is not subject to §60.4215 because the aforementioned stationary CI ICE will be used in Idaho.***

(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 $NO_X$ 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 $NO_X$ 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]

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

***The INL is not subject to §60.4215 because the aforementioned stationary CI ICE will be used in Idaho.***

(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]

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

***The INL is not subject to §60.4217 because these stationary CI ICE will not use special fuels and the INL has not requested approval to use 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]

**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.

***The INL is subject to §60.4218. See Table 8 for details.***

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 internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. 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. Stationary CI ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.
*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]

***The INL has read and understands these definitions and used them in providing this regulatory analysis. For this regulatory analysis, §60.4218 definitions underlined are for those definitions that specifically apply to INL operations and the aforementioned stationary CI ICE.***

**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 ...**

***The aforementioned emergency stationary CI ICE are not subject to the requirements of Table 1 to Subpart IIII of Part 60 because it is not subject to §§60.4201(b), 60.4202(b), 60.4204(a), and 60.4205(a).***

[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 | 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 in g/KW-hr (g/HP-hr) | | | | |
|---|---|---|---|---|---|
| | $NMHC + NO_X$ | HC | $NO_X$ | CO | PM |
| 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) |

**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**

***The aforementioned emergency stationary CI ICE are not subject to the requirements of Table 2 to Subpart IIII of Part 60 because they are not subject to §§60.4202(a)(1).***

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

| Engine power | Emission standards for 2008 model year and later emergency stationary CI ICE <37 KW (50 HP) with a displacement of <10 liters per cylinder in g/KW-hr (g/HP-hr) | | | |
|---|---|---|---|---|
| | Model year(s) | $NO_X$+ 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 | 2008+ | 7.5 (5.6) | 5.5 (4.1) | 0.30 (0.22) |

(25≤HP<50)

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

***The INL is not subject to to the requirements of Table 3 to Subpart IIII of Part 60 because the INL is not a stationary CI ICE manufacturer and the aforementioned stationary CI ICE are not fire pump engines.***

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:

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

[1]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]

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

***The aforementioned emergency stationary CI ICE are not subject to the requirements of Table 4 to Subpart IIII of Part 60 because they are not 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]

| Maximum engine power | Model year(s) | NMHC + $NO_X$ | CO | PM |
|---|---|---|---|---|
| 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+[1] | 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+[1] | 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+[2] | 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+[3] | 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+[3] | 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) |

[1]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.
[2]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.
[3]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.

**Table 5 to Subpart IIII of Part 60 Labeling and Recordkeeping Requirements for New Stationary Emergency Engines**

***The aforementioned emergency stationary CI ICE are not subject to the requirements of Table 5 to Subpart IIII of Part 60 because the INL is not a manufacturer of fire pump engines, the CFA CI ICE is not a model year listed in table 5, and the CI ICE installed at INTEC MFC and ATR Complex are certified to the emission standard for the respective model year non-emergency engine.***

[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 |

**Table 6 to Subpart IIII of Part 60 Optional 3-Mode Test Cycle for Stationary Fire Pump Engines**

***The aforementioned emergency stationary CI ICE are not subject to the requirements of Table 6 to Subpart IIII of Part 60 because the INL is not a manufacturer of 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[1] | Torque (percent)[2] | Weighting factors |
|---|---|---|---|
| 1 | Rated | 100 | 0.30 |

| | | | |
|---|---|---|---|
| 2 | Rated | 75 | 0.50 |
| 3 | Rated | 50 | 0.20 |

[1]Engine speed: ±2 percent of point.
[2]Torque: NFPA certified nameplate HP for 100 percent point. All points should be ±2 percent of engine percent load value.

**Table 7 to Subpart IIII of Part 60 Requirements for Performance Tests for Stationary CI Ice With a Displacement of ≥30 Liters Per Cylinder**

***The aforementioned emergency stationary CI ICE are not subject to the requirements of Table 7 to Subpart IIII of Part 60 because they are not greater than or equal to 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 ≥30 liters per cylinder:]

| For each | Complying with the requirement to | You must | Using | According to the following requirements |
|---|---|---|---|---|
| 1. Stationary CI internal combustion engine with a displacement of ≥30 liters per cylinder | a. Reduce $NO_X$ emissions by 90 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 | (a) Sampling sites must be located at the inlet and outlet of the control device. |
| | | ii. Measure $O_2$at the inlet and outlet of the control device; | (2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A | (b) Measurements to determine $O_2$concentration must be made at the same time as the measurements for $NO_X$ 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, 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 $NO_X$ concentration. |
| | | iv. Measure $NO_X$ at the inlet and outlet of the control device | (4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17) | (d) $NO_X$ concentration must be at 15 percent $O_2$, dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |
| | b. Limit the concentration of $NO_X$ in the stationary CI internal combustion engine exhaust. | i. Select the sampling port location and the number of traverse points; | (1) Method 1 or 1A of 40 CFR part 60, appendix A | (a) If using a control device, the sampling site must be located at the outlet of the control device. |
| | | ii. Determine the | (2) Method 3, 3A, or | (b) Measurements to |

| | | | | |
|---|---|---|---|---|
| | | $O_2$concentration of the stationary internal combustion engine exhaust at the sampling port location; and, | 3B of 40 CFR part 60, appendix A | determine $O_2$concentration must be made at the same time as the measurement for $NO_X$ 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, 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 $NO_X$ concentration. |
| | | iv. Measure $NO_X$ at the exhaust of the stationary internal combustion engine | (4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17) | (d) $NO_X$ concentration must be at 15 percent $O_2$, 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 | (a) Sampling sites must be located at the inlet and outlet of the control device. |
| | | ii. Measure $O_2$at the inlet and outlet of the control device; | (2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A | (b) Measurements to determine $O_2$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 | (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 | (d) PM concentration must be at 15 percent $O_2$, dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |
| | d. Limit the concentration of PM in the stationary CI internal combustion engine exhaust | i. Select the sampling port location and the number of traverse points; | (1) Method 1 or 1A of 40 CFR part 60, appendix A | (a) If using a control device, the sampling site must be located at the outlet of the control device. |
| | | ii. Determine the $O_2$concentration of the stationary internal combustion engine | (2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A | (b) Measurements to determine $O_2$concentration must be made at the same time |

| | | |
|---|---|---|
| exhaust at the sampling port location; and | | 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 | (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 | (d) PM concentration must be at 15 percent $O_2$, dry basis. Results of this test consist of the average of the three 1-hour or longer runs. |

**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 |
|---|---|---|---|
| §60.1 | General applicability of the General Provisions | Yes | |
| §60.2 | Definitions | Yes | Additional terms defined in §60.4219. |
| §60.3 | Units and abbreviations | Yes | |
| §60.4 | Address | Yes | |
| §60.5 | Determination of construction or modification | Yes | |
| §60.6 | Review of plans | Yes | |
| §60.7 | Notification and Recordkeeping | Yes | Except that §60.7 only applies as specified in §60.4214(a). |
| §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. |
| §60.9 | Availability of information | Yes | |
| §60.10 | State Authority | Yes | |
| §60.11 | Compliance with standards and maintenance requirements | No | Requirements are specified in subpart IIII. |
| §60.12 | Circumvention | Yes | |
| §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 |

***The INL is subject to the requirements of Table 8 to Subpart IIII of Part 60 in accordance with §60.4218 except for:***

- ***§60.7 because the INL is not subject to §60.4214(a)***
- ***§60.8 because the displacement of the aforementioned stationary CI ICE is less than 30 liters per cylinder.***
- ***§60.13 because the displacement of the aforementioned stationary CI ICE is less than 30 liters per cylinder.***

## Potential Greenhouse Gas Emissions for Idaho National Laboratory

$CO_2e$ Summary

| | | $CO_2$ Emissions (metric tons) | $CH_4$ Emissions (metric tons) | $N_2O$ Emissions (metric tons) | Facility Total |
|---|---|---|---|---|---|
| AMWTP Managed Sources | | | | | |
| AMWTP Facility | | 7,025 | 7 | 21 | 7,053 |
| BEA Managed Sources | | | | | |
| ATR Complex | | 8,519 | 7 | 21 | 8,548 |
| CFA | | 8,618 | 7 | 22 | 8,647 |
| MFC | | 1,086 | 1 | 3 | 1,090 |
| SMC | | 22,813 | 19 | 57 | 22,889 |
| | BEA Total | 41,035 | 35 | 103 | 41,173 |
| CWI Managed Sources | | | | | |
| INTEC | | 85,918 | 71 | 210 | 86,199 |
| RWMC | | 2,665 | 3 | 8 | 2,675 |
| | CWI Total | 88,582 | 74 | 218 | 88,874 |
| NRF Managed Sources | | | | | |
| NRF | | 103,349 | 88 | 260 | 103,697 |
| | | | | INL Total | 240,796 |

Enclosure 2

| Emissions Unit Description | $PM_{10}$/PM | $NO_X$ | $SO_2$ | CO | VOC | Lead | HAPs |
|---|---|---|---|---|---|---|---|
| ~~MFC, Boilers Nos. 1 and 4~~ | -- | ~~39.44~~ | -- | -- | -- | | |
| MFC, Utility Paint Spray Booth | 0.2 | -- | -- | -- | 0.8 | | |
| CFA, Boiler CFA-609-005 | 0.035 | -- | -- | -- | -- | | |
| ~~CFA, Two boilers - CFA-671-007 and CFA-0671-008), combined emissions~~ | ~~4.98~~ | -- | -- | -- | -- | | |
| INTEC, CPP-606 boilers | -- | 75.6 | 163 | -- | -- | | |
| INTEC, IWTU | -- | 39.4 | -- | -- | -- | | |
| INTEC, COM-UTI-616 | -- | 35.65 | -- | -- | -- | | |
| ~~NRF, Three boilers Nos. 1-3~~ | -- | ~~111.39~~ | -- | -- | -- | | |
| TAN, TAN 629-002: Phase I stack | ~~0.007~~ | -- | -- | -- | 0.403 | | |
| TAN, TAN 677-030, welding & cold machine shop | ~~0.0078~~ | -- | -- | -- | -- | | |
| TAN, SMC- TAN 679: Phase II, maintenance welding shop hood | ~~0.001~~ | -- | -- | -- | -- | | |
| TAN, TAN 679-022 through 027 combined emissions: Phase II six stacks | -- | -- | -- | -- | ~~0.052~~ | | |
| TAN, TAN 679-067 and TAN 679-068 boilers | ~~2.21~~ | 22.13 | 79.33 | ~~5.52~~ | ~~0.22~~ | | |
| TAN, TAN 629-012, 014: 2B paint process | ~~0.5~~ | -- | -- | -- | 4.1 | | |
| ATR Complex, Three IC engine generators | | 119.5 | | | | | |
| AMWTP, aggregate emissions from mobile equipment operates within the TSA-RE and the propane heater | -- | 17.3 | -- | -- | -- | | |
| AMWTP, aggregate emissions from three boilers | | 3.1 | | | | | |
| IC Engines (excluding ATR & COM-UTI-616 engines) | 0.04 | 1.04 | 0.03 | 0.51 | 0.38 | 0.00 | 0.03 |
| **TOTAL EMISSIONS** | **7.94 (?)** | **453.51 (?)** | **242.33 (?)** | **5.52 (?)** | **5.58 (?)** | **?** | **?** |

**Comment [MAV1]:** These engines do not have a PTC since they are exceptable under IDAPA 58.01.01.220 to 223. The emission rates are calculated from the manufactures emission rates and the 500 hour limit allowed in IDAPA 58.01.01.222.01.d.

# APPENDIX E – INSIGNIFICANT ACTIVITIES

# Advanced Mixed Waste Treatment Project Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | Vent/Stack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| Fueling Station | Propane fueling station (outside) | | Filling portable propane tanks and propane-fueled rolling stock | IDAPA 58.01.01.317.01.b.i.(4) |
| WMF-752 | South bulk propane tank (outside) | | Filling 30,000 gal propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| WMF-703 | North bulk propane tank (outside) | | Filling 30,000 gal propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| WMF-610 | Work bay | | Two propane fired space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| WMF-610 | S1-GEN-1001 backup generator | | 225 Hp propane-fueled engine | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-628 | Work bay | | Two propane fired space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| WMF-628 | Drum Treatment Facility | | Treatment processes | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-629 | Container Unpacking | | Unpacking of waste containers | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-634 | Work bay | | Six propane fired space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| WMF-634 | BGEN-232-001 backup generator (outside) | | Backup Generator (380 Hp diesel-fueled engine) | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-634 | BGEN-232-001 backup generator (outside) | | 458 gal diesel engine tank | IDAPA 58.01.01.317.01.b.i.(2) |
| WMF-635 | Work bay | | Six propane fired space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| WMF-635 | WMF-635 Waste Drum Sampling and | | Sampling and waste container management | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-676 | BGEN-812-001 backup generator (outside) | | Filling 3000 gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(3) |
| WMF-676 | BGEN-812-002 backup generator (outside) | | Filling 4000 gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(3) |
| WMF-676 | System 380 "Hot Maintenance" | | Plasma Arc Cutter | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-679 | Work bay | | Propane fired infra-red space heater | IDAPA 58.01.01.317.01.b.i.(18) |
| WMF-679 | Weld Shop (outside) | | Filling 500 gal propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| WMF-679 | Weld Shop | | Welding | IDAPA 58.01.01.317.01.b.i.(9) |
| Mobile | Allmad Maxi-heater UH-184-001 A | | 150 gal diesel engine tank | IDAPA 58.01.01.317.01.b.i.(1) |
| Mobile | Allmad Maxi-heater UH-184-001 B | | 150 gal diesel engine tank | IDAPA 58.01.01.317.01.b.i.(1) |
| Mobile | Allmad Maxi-heater UH-184-001 A | | 1.5 L diesel-fueled engine | IDAPA 58.01.01.317.01.b.i.(30) |
| Mobile | Allmad Maxi-heater UH-184-001 B | | 1.5 L diesel-fueled engine | IDAPA 58.01.01.317.01.b.i.(30) |
| Mobile | 250 gal tank trailer | | Filling 250 gal diesel tank | IDAPA 58.01.01.317.01.b.i.(1) |
| Mobile | Various (as needed for heating) | | Seasonal portable space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| WMF-636 | PGH-T-TNK-001 (outside) | | Filling 1000 gal propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| WMF-636 | PGH-T-TNK-002 (outside) | | Filling 1000 gal propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| WMF-636 | Retrieval | | 30% increase in retrieval rate | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-636 | Dry air heater (outside) | | Propane fired 933 MBH output glycol heater | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-751 | Bulk Fuel Storage (outside) | | Filling gasoline and diesel AST (1000 gal each) | IDAPA 58.01.01.317.01.b.i.(2) |
| WMF-659 | Infrasave IQ 80-40 heaters | | Three propane-fired space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| WMF-TR-14 | AMWTP Analytical Laboratory | | Laboratory Fume Hoods | IDAPA 58.01.01.317.01.b.i.(30) |
| WMF-TR-14 | AMWTP Analytical Laboratory | | 15 hp propane-fueled engine | IDAPA 58.01.01.317.01.b.i.(30) |

a. The regulatory citation listed is the criterion for determining if a source is an "insignificant activity" pursuant to the Idaho Administrative Procedures Act (IDAPA) 58.01.01.317, Insignificant Activities, regulation.

# ATR Complex Facilities and Site Services Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for Vent/Stack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| TRA-653[b] | Maintenance Building | TRA-653-061,062 | Multicraft machine, weld, electrical shop | IDAPA 58.01.01.317.01.b.i.(9); F&SS machine shop 317.01.a.i.(49) |
| TRA-678 | Radiation Measurements Laboratory | TRA-678-001 | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| TRA-710 | MTR Exhaust Stack | TRA-710-001 | Analytical/research laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| TRA-735 | Sewage Lagoon #1 | TRA-735 | Sewage Pond | IDAPA 58.01.01.317.01.b.i.(29) |
| TRA-736 | Sewage Lagoon #2 | TRA-736 | Sewage Pond | IDAPA 58.01.01.317.01.b.i.(29) |
| TRA-777C | Diesel Tank | 98TRA00500 | 1000-gallon diesel UST | IDAPA 58.01.01.317.01.b.i.(3) |
| TRA-777B | Gasoline Tank | 98TRA00499 | 2500-gallon gasoline UST | IDAPA 58.01.01.317.01.b.i.(30) |
| TRA-1626[c] | Test Train Assembly Facility | TRA-1626-001 | Assembly, weld shop | IDAPA 58.01.01.317.01.b.i.(9) |
| TRA-1627[d] | Radioanalytical Chemistry Laboratory | TRA-1627-001 | Analytical/research laboratories | IDAPA 58.01.01.317.01.b.i.(30) |

a. The regulatory citation listed is the criterion for determining a source is an "insignificant activity" per the Idaho Administrative Procedures Act (IDAPA) 58.01.01.317. Sources that are in the 317.01.b.i. list (i.e. on the basis of size or production rate) are required to be listed in the permit application.

b. TRA-653 Maintenance Building is managed by ATR Complex F&SS and occupies the TRA-653 machine shop. Welding does not take place in the machine shop portion of TRA-653. The machine shop meets the requirements of IDAPA 58.01.01.317.01.a.i.(49) as a presumptively insignificant emission unit. ATR Complex Nuclear Operations occupies the weld shop and electrical shop and own the emission units TRA-653-061 and TRA-653-062 in the weld shop.

c. TRA-1626 Test Train Assembly Facility is a new building that started operations in July, 2009. This TTAF moved from TRA-632 which is scheduled to be demolished.

d. TRA-1627 Radioanalytical Chemistry Laboratory is a currently under construction and is scheduled to begin operations prior to the June 28, 2010 Tier I Air Permit

# ATR Complex Nuclear Operations Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for VentStack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| TRA-608 | Demineralizer Bldg | TRA-608 | Potable water treatment | IDAPA 58.01.01.317.01.b.i.(16) |
| TRA-609 | Compressor Building | 09ATRX00003 | 86.5 gal diesel AST | IDAPA 58.01.01.317.01.b.i.(1) |
| TRA-619 | Raw Water Pumphouse | 98TRA00456 | 300 gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(2) |
| TRA-727C | Diesel Oil Storage Tank (West) | 98TRA00464 | 29957-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(20) |
| TRA-775 | Diesel Oil Storage Tank (East) | 98TRA00466 | 34940-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(20) |
| TRA-633 | Diesel Firewater Pumphouse | 98TRA00481 | 750-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(2) |
| TRA-653 [b] | Maintenance Building | TRA-653-061<br>TRA-653-062 | Multicraft machine, weld, electrical shop | IDAPA 58.01.01.317.01.b.i.(9) |
| TRA-670 | ATR Reactor Building | 98TRA00122 | 10-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(1) |
| TRA-674 | Diesel Generator Building | 98TRA00211 | 275-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(2) |
| TRA-680 | Emergency Command Center | 98TRA00353 | 300-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(2) |
| TRA-688 | Firewater Pumphouse | 01TRA00001 | 572-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(2) |
| TRA-688 | Firewater Pumphouse | 01TRA00002 | 572-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(2) |
| TRA-776 | ATR Diesel Day Tank | 98TRA00005 | 1500-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(3) |
| TRA-786 | ATR Heat Deep Well Elec. Equip. Pad (deep well #3 generator tank) | 09ATRX00002 | 4000-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(3) |
| TRA-786 | ATR Heat Deep Well Elec. Equip. Pad (deep well #3 generator trailer day tank) | 09ATRX00001 | 1250-gallon diesel AST (enclosed in TRA-786-M-1) | IDAPA 58.01.01.317.01.b.i.(3) |
| c | Portable sources | c | Vacuum excavator - diesel fueled | IDAPA 58.01.01.317.01.b.i.(6) |
| c | Portable sources | c | Light towers (2) - diesel fueled | IDAPA 58.01.01.317.01.b.i.(6) |

a. The regulatory citation listed is the criterion for determining a source is an "insignificant activity" per the Idaho Administrative Procedures Act (IDAPA) 58.01.01.317. Sources that are in the 317.01.b.i. list (i.e. on the basis of size or production rate) are required to be listed in the permit application.

b. TRA-653 Maintenance Building is managed by ATR Complex F&SS and occupies the TRA-653 machine shop. Welding does not take place in the machine shop portion of TRA-653. The machine shop meets the requirements of IDAPA 58.01.01.317.01.a.i.(49) as a presumptively insignificant emission unit. ATR Complex Nuclear Operations occupies the weld shop and electrical shop and own the emission units TRA-653-061 and TRA-653-062 in the weld shop.

c. Building, structure number, or ID number not applicable or assigned.

# Central Facilities Area Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID # for Vent/Stack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| B08-601 | TAN gate #4 guard station | | 60-gal diesel #2 AST | IDAPA 58.01.01.317.01.b.i.(2) |
| B21-612 | Landfill Mechanics Shed | | 110-gal Propane Tank | IDAPA 58.01.01.317.01.b.i.(4) |
| B21-612 | Landfill | | 250-gal Propane Tank | IDAPA 58.01.01.317.01.b.i.(4) |
| B21-608 | Indoor range | B21-608-001 | Gun range ventillation | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-608 | Materials Science Lab. | | 55-gal Boiler Day Tank, diesel #2 | IDAPA 58.01.01.317.01.b.i.(2) |
| CFA-608 | Materials Science Lab. | | Various Hood Exhaust stacks | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-608 | Materials Science Lab. | | 15,000-gal diesel/biodiesel UST | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-609 | Security Headquarters | CFA-609-061 | 12,000 gal boiler fuel tank | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-609 | Security Headquarters | | 30-gal standby generator day tank | IDAPA 58.01.01.317.01.b.i.(2) |
| CFA-609 | Security Headquarters | | 42-gal boiler day tank | IDAPA 58.01.01.317.01.b.i.(2) |
| CFA-609 | Security Headquarters | | 500-gal propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| CFA-612 | Laboratory | | Three nonrad laboratory hood exhaust stacks | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-622 | Multicraft shop #2 | | Various welding shop vents | IDAPA 58.01.01.317.01.b.i.(9) |
| CFA-623 | Multicraft shop #3 | | Paint shop and paint booth vents | IDAPA 58.01.01.317.01.b.i.(17) |
| CFA-625 | Laboratory Complex | | Two analytical laboratory hood stacks | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-666 | Maintenance Support Bldg. | | Four propane fueled 75000 Btu/hr space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| CFA-666 | Maintenance Support Bldg. | CFA-666-039 | Propane fueled 30000 Btu/hr space heater | IDAPA 58.01.01.317.01.b.i.(18) |
| CFA-668 | Communications Bldg. | | 1,000 gal #2 diesel UST | IDAPA 58.01.01.317.01.b.i.(2) |
| CFA-671 | Boiler House | | 20,000 gal #2 diesel UST | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-688 | Technical Center | | 2,500 gal #2 diesel UST | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-689 | Technical Center | | 42,000 gal #2 diesel AST | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-690 | Radiological/Environmental Laboratory | | 124-gal Propane Tank | IDAPA 58.01.01.317.01.b.i.(4) |
| CFA-696 | Transportation Complex | | Two 1 M Btu/hr propane fueled steam cleaners | IDAPA 58.01.01.317.01.b.i.(5) |
| CFA-696 | Transportation Complex | CFA-696-003 | Vehicle Repair Paint Shop | IDAPA 58.01.01.317.01.b.i.(17) |
| CFA-696 | Transportation Complex | CFA-696-005 | Vehicle Repair Weld Shop | IDAPA 58.01.01.317.01.b.i.(9) |
| CFA-696 | Transportation Complex | | Propane fueled air handling unit 113,000 Btu/hr | IDAPA 58.01.01.317.01.b.i.(18) |
| CFA-696 | Transportation Complex | | Three propane fueled air handling units, 140,000 Btu/hr each | IDAPA 58.01.01.317.01.b.i.(18) |
| CFA-696 | Transportation Complex | | Propane fueled air handling unit 2,427,000 Btu/hr | IDAPA 58.01.01.317.01.b.i.(18) |
| CFA-696 | Transportation Complex | | Three 2,500 gal. Motor oil USTs | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-696 | Transportation Complex | CFA-696-300 | 6,000 gal Used Oil UST | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-696 | Transportation Complex | CFA-696-301-302 | Two 15,000-gal diesel/biodisel tanks | IDAPA 58.01.01.317.01.b.i.(20) |
| CFA-696 | Transportation Complex | CFA-696-791 | 1000 gal antifreeze UST | IDAPA 58.01.01.317.01.b.i.(2) |
| CFA-696 | Transportation Complex | | 18,000 gal Propane Tank | IDAPA 58.01.01.317.01.b.i.(4) |
| CFA-696 | Transportation Complex | | Hotsy kerosene/diesel fueled steam cleaning unit | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-696 | Transportation Complex | 04CFA00001 | 2,000 gal AST gasoline/E-85 | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-696 | Transportation Complex | | 10,000 gal AST diesel | IDAPA 58.01.01.317.01.b.i.(20) |

# Central Facilities Area Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID # for Vent/Stack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| CFA-696 | Transportation Complex | 10CFA00001 | 4000 gal AST gasoline/fuel-ethanol | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-698 | Standards and Calibration Laboratory | | Various laboratory fume hoods | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-786, 787, 788 | Wastewater Treatment Lagoons | | Three Wastewater Treatment Lagoons | IDAPA 58.01.01.317.01.b.i.(29) |
| CFA-1603 | Firewater Pumphouse | | Two 285-gal diesel #2 ASTs | IDAPA 58.01.01.317.01.b.i.(2) |
| CFA-1607 | Vehicle Fuel Station | CFA-1607-304 | 15,000 gal gasoline/fuel-ethanol UST | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-1611 | Fire Station | | Four 88,000 Btu/hr LPG space heaters | IDAPA 58.01.01.317.01.b.i.(18) |
| CFA-1611 | Fire Station | | 9,000-gal LNG Tank | IDAPA 58.01.01.317.01.b.i.(30) |
| CFA-1612 | Medical Facility | | 472,000 Btu/hr LPG furnace | IDAPA 58.01.01.317.01.b.i.(5) |
| CFA-1614 | Fire Training Facility | | 12,000-gal Propane Tank | IDAPA 58.01.01.317.01.b.i.(4) |
| PER-612 | CITRC Research Facility | PER-612-006 | 75,000 Btu/hr furnace | IDAPA 58.01.01.317.01.b.i.(7) |
| PER-638 | Firewater Pumphouse | 97PBF00008 | 285 gal AST diesel | IDAPA 58.01.01.317.01.b.i.(2) |
| TAN-610 | Firewater Pumphouse | 98TAN00401 | 300 gal AST diesel | IDAPA 58.01.01.317.01.b.i.(2) |
| TAN-665 | Firewater Pumphouse | 98TAN00109 | 300 gal AST diesel | IDAPA 58.01.01.317.01.b.i.(2) |
| TAN-680 | Bus Fuel Station | | 15,000-gal diesel/biodiesel UST | IDAPA 58.01.01.317.01.b.i.(20) |
| TAN-680 | Bus Fuel Station | 10TAN00001 | 10,000 gal AST gasoline/fuel-ethanol | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN-687 | Fire Station | | 500-gal #2 diesel tank | IDAPA 58.01.01.317.01.b.i.(4) |
| NRF | Fuel Station | | 15,000 gal gasoline/fuel-ethanol UST | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF | Fuel Station | | 15,000-gal diesel/biodiesel UST | IDAPA 58.01.01.317.01.b.i.(20) |

a. The regulatory citation listed is the criterion for determining if a source is an "insignificant activity" pursuant to the Idaho Administrative Procedures Act (IDAPA) 58.01.01.317, *Insignificant Activities*, regulation.

# Idaho Nuclear Technology and Engineering Center Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for Vent/Stack, Tank, or Equipment | Source Description | Justification |
|---|---|---|---|---|
| CPP-606 | Service/Power house | | 124-gallon propane tank | IDAPA 58.01.01.317.b.i.(4) |
| CPP-614 | Diesel Engine Pumphouse | | 300-gallon diesel water pump fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| CPP-616 | CPP-616 Standby Plant Air Compressor Fuel Tank | | 180-gallon diesel compressor fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| CPP-628 | Tank Farm Control House | | 380-gallon chromated water AST | IDAPA 58.01.01.317.b.i.(19) |
| CPP-655 | Craft Shop/Warehouse | | 1,000-gallon propane tank | IDAPA 58.01.01.317.b.i.(4) |
| CPP-655 | Craft Shop/Warehouse | | 1000-gallon propane tank | IDAPA 58.01.01.317.b.i.(4) |
| CPP-2720 | Fleet UST Storage Tank | | 2500-gallon diesel UST | IDAPA 58.01.01.317.b.i.(30) |
| CPP-2720 | Fleet UST Storage Tank | | 6,000-gallon gasoline UST | IDAPA 58.01.01.317.b.i.(30) |
| CPP-662 | Maintenance/Fabrication Shop | | Welding booth | IDAPA 58.01.01.317.b.i.(9) |
| CPP-662 | Fabrication Shop | | Plasma cutter | IDAPA 58.01.01.317.b.i.(30) |
| CPP-663 | Maintenance/ Crafts/Warehouse | | Welding | IDAPA 58.01.01.317.b.i.(9) |
| CPP-679 | Tent Fabrication Facility | | Propane unit heater | IDAPA 58.01.01.317.b.i.(5) |
| CPP-684 | Remote Analytical Lab | | 250-gallon propane tank | IDAPA 58.01.01.317.b.i.(4) |
| CPP-698 | MK Warehouse and Office Building | | Welding | IDAPA 58.01.01.317.b.i.(9) |
| CPP-698 | MK Warehouse and Office Building | | Propane unit heater | IDAPA 58.01.01.317.b.i.(5) |
| CPP-698 | MK Warehouse and Office Building | | 1,000-gallon liquid propane gas AST | IDAPA 58.01.01.317.b.i.(4) |
| CPP-701 | CPP-701 | | 244,000-gallon fuel oil AST | IDAPA 58.01.01.317.b.i.(30) |
| CPP-701 | CPP-701 | | 50,000-gallon fuel oil AST | IDAPA 58.01.01.317.b.i.(30) |
| CPP-1684 | Substation 60 | | 10,000-gallon diesel #2 UST | IDAPA 58.01.01.317.b.i.(30) |
| CPP-1749 | Liquid Waste Operations | | 165-gallon diesel water pump fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| CPP-1778 | Waste Water Treatment Lagoon | | Sewage treatment pond | IDAPA 58.01.01.317.b.i.(29) |
| IWTU | IWTU Site | | 300-gallon diesel fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| IWTU | IWTU Site | | 300-gallon gasoline tank | IDAPA 58.01.01.317.b.i.(30) |

# Materials and Fuels Complex Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for Vent/Stack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| MFC-768 | Cooling tower | NA | Water Cooling towers | IDAPA 58.01.01.317.01.b.i.(13) |
| MFC-785A | Cooling tower | NA | Water Cooling towers | IDAPA 58.01.01.317.01.b.i.(13) |
| MFC-753 | Maintenance Buildings | Several | Plant Services Building | IDAPA 58.01.01.317.01.b.i.(9) |
| MFC-782 | Maintenance Buildings | Several | Machine shop | IDAPA 58.01.01.317.01.b.i.(9) |
| MFC-788 | Maintenance Buildings | Several | Maintenance Building | IDAPA 58.01.01.317.01.b.i.(9) |
| MFC-721 | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-768B | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-752 | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-772 | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-785 | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-765 | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-717 | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-718 | Laboratories | Several | Analytical laboratories | IDAPA 58.01.01.317.01.b.i.(30) |
| MFC-779 | Sewage Lagoons | NA | Sewage Evaporative Lagoons | IDAPA 58.01.01.317.01.b.i.(29) |
| MFC-701 | Diesel Tanks | MFC-701-12 | 250 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-704 | Diesel Tanks | MFC-704-15 | 90 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-707 | Diesel Tanks | MFC-707-1 | 1100 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-709 | Diesel Tanks | MFC-709-9 | 1100 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-720 | Diesel Tanks | MFC-720-25 | 500 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-742 | Diesel Tanks | MFC-742-2 | 5000 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-742 | Diesel Tanks | MFC-742-5 | 2385 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-752A | Diesel Tanks | MFC-752A-5 | 500 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-754 | Diesel Tanks | MFC-754-1 | 150 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-768 | Diesel Tanks | MFC-768ET | 500 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-774 | Diesel Tanks | MFC-774-3 | 150 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-785 | Diesel Tanks | MFC-785-15 | 500 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-798 | Diesel Tanks | MFC-798-7 | 30 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-742 | Diesel Tanks | MFC-742-7 | 3000 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-725 | Diesel Tanks | MFC-725-ET | 500 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-792 | Diesel Tanks | MFC-792A-17 | 300 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-756 | Diesel Tanks | MFC-756-1 | 150 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-742 | Gasoline Tanks | MFC-742-6 | 2385 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-742 | Gasoline Tanks | MFC-742G | 5000 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| MFC-754 | Well House # 1 | NA | MIOX Disinfection | IDAPA 58.01.01.317.01.b.i.(28) |
| MFC-721 | Propane tank | NA | 500 lb | IDAPA 58.01.01.317.01.b.i.(4) |
| MFC-1728 | Diesel Tanks | MFC-1728-1 | 285 gal | IDAPA 58.01.01.317.01.b.i.(3) |
| Various | Portable Sources | NA | Portable Heaters | IDAPA 58.01.01.317.01.b.i.(18) |

a. The regulatory citation listed is the criterion for determining a source is an "insignificant activity" per the Idaho Administrative Procedures Act (IDAPA) 58.01.01.317. Sources that are in the 317.01.b.i. list (i.e. on the basis of size or production rate) are required to be listed in the permit application.

# Naval Reactors Facility Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for Vent/Stack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| NRF-616, 617 | A1W Plant | NRF-616-PCMA | Welding Station exhaust Weld inspections | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-618 | ECF | NRF-618-237 | Welding Station exhaust Weld inspections | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-619 | Site Services Shop | NRF-619-016 NRF-619-017 NRF-619-018 NRF-619-020 | Welding station exhaust | IDAPA 58.01.01.317.01.b.i.(9) |
| NRF-626B | A1W Out hull Shop Building | NRF-626-027, 028, 029 | Welding exhaust | IDAPA 58.01.01.317.01.b.i.(9) |
| NRF-688 | Overpack & Fabrication Building | NRF-688-001, 002, 003, 004, 005 | Overpack Construction: Sealant, Welding, & Cure Emissions | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-779A | Sewage Lagoon | | Sewage Lagoon | IDAPA 58.01.01.317.01.b.i.(29) |
| NRF-779B | Sewage Lagoon | | Sewage Lagoon | IDAPA 58.01.01.317.01.b.i.(29) |
| NRF-628A | Radioactive Waste Disposal Equipment Building | NRF628A-006 | Tanks Vent | IDAPA 58.01.01.317.01.b.i.(30) |
| SOIL | Soil Areas | SOIL-001 | Fugitive Soil: S1W Leaching Pit (not in use) area. Environmental remediation area. | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-686 | Diesel Generator Facility | NRF-686-001 | No. 1 PSU Diesel Fuel Day Tank (150 gal) | IDAPA 58.01.01.317.01.b.i.(1) |
| NRF-686 | Diesel Generator Facility | NRF-686-002 | No. 2 PSU Diesel Fuel Day Tank (150 gal) | IDAPA 58.01.01.317.01.b.i.(1) |
| NRF-686 | Diesel Generator Facility | NRF-686-003 | No. 3 PSU Diesel Fuel Day Tank (150 gal) | IDAPA 58.01.01.317.01.b.i.(1) |
| NRF-686 | Diesel Generator Facility | NRF-686-004 | No. 4 PSU Diesel Fuel Day Tank (150 gal) | IDAPA 58.01.01.317.01.b.i.(1) |
| NRF-759A | PSU East Diesel Fuel Storage Tank | NRF-759A-001 | East PSU Diesel Fuel Tank (12,000 gal) | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-759B | PSU West Diesel Fuel Storage Tank | NRF-759B-001 | West PSU Diesel Fuel Tank (12,000 gal) | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-769 | Site Services Used Oil Storage Facility | NRF-769-001 | Used Oil Storage Tank 1 (1,000 gal) | IDAPA 58.01.01.317.01.b.i.(3) |
| NRF-769 | Site Services Used Oil Storage Facility | NRF-769-002 | Used Oil Storage Tank 2 (1,000 gal) | IDAPA 58.01.01.317.01.b.i.(3) |
| NRF-773 | Boiler House Fuel Oil Storage Tanks and Associated Truck Revetment | NRF-773-001 | East Boiler House Fuel Oil Storage Tank (25,000 gal) | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-773 | Boiler House Fuel Oil Storage Tanks and Associated Truck Revetment | NRF-773-002 | West Boiler House Fuel Oil Storage Tank (25,000 gal) | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-774 | Boiler House 300 Gallon Propane Tank | NRF-774-001 | Boiler House Propane Tank (300 gal) | IDAPA 58.01.01.317.01.b.i.(4) |
| NRF-FBE | Fuel Burning Equipment | NRF-FBE-xxx | Miscellaneous and Portable Insignificant Fuel Burning Equipment | IDAPA 58.01.01.317.01.b.i.(6),(7) |
| NRF-PNT | Paint Shops and Other Locations | NRF-PNT-ALL | Paint Shops and Painting Operations | IDAPA 58.01.01.317.01.b.i.(17) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Heaters | IDAPA 58.01.01.317.01.b.i.(7) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Fuel Oil Storage Tanks | IDAPA 58.01.01.317.01.b.i.(3) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Auger/Back Hoes | IDAPA 58.01.01.317.01.b.i.(6) |

# Naval Reactors Facility Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for Vent/Stack, Tank, or Equipment | Source Description | Justification [1] |
|---|---|---|---|---|
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Generators | IDAPA 58.01.01.317.01.b.i.(6) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Air Compressors | IDAPA 58.01.01.317.01.b.i.(7) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Hydraulics | IDAPA 58.01.01.317.01.b.i.(6) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Percussion Rammers | IDAPA 58.01.01.317.01.b.i.(6) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Welders | IDAPA 58.01.01.317.01.b.i.(6) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Pumps | IDAPA 58.01.01.317.01.b.i.(6) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Vibratory Trench Rollers | IDAPA 58.01.01.317.01.b.i.(6) |
| NRF-PRT | Portable Sources | NRF-PRT-xxx | Portable Fuel Tanks | IDAPA 58.01.01.317.01.b.i.(1) |
| NRF-601 | S1W Main Building | NRF-601-023 | S1W Reactor Compartment | IDAPA 58.01.01.317.01.b.i.(5) |
| NRF-601 | S1W Main Building | NRF-601-HBRV | S1W High Bay Roof Vents | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-616, 617 | A1W Plant | NRF-616-012, 021 | A1W Operations Building and Site Chemistry | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-616, 617 | A1W Plant | NRF-616-PCMA | A1W Primary Components Maintenance Area and Extension | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-616, 617 | A1W Plant | NRF-617-013 | A1W Reactor Compartment 3A | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-616, 617 | A1W Plant | NRF-617-020 | A1W Reactor Compartment 3B | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-618 | ECF | NRF-618-099 | ECF Stack Number 1 | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-618 | ECF | NRF-618-103 | ECF Stack Number 2 | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-618 | ECF | NRF-618-237 | ECF Stack Number 3 | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-618 | ECF | NRF-618-HBRV | ECF High Bay Roof Vents | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-633, 634 | S5G Test Plant, Support Area, and Material Control Building | NRF-633A-057 | S5G Radioactive Area Ventilation (RAV) System | IDAPA 58.01.01.317.01.b.i.(30) |
| NRF-633, 634 | S5G Test Plant, Support Area, and Material Control Building | NRF-633A-HBRV | S5G High Bay Roof Vents | IDAPA 58.01.01.317.01.b.i.(30) |
| MSC | Miscellaneous Fugitive and Temporary Radiological Sources | MSC-ALL | Miscellaneous Fugitive and Temporary Radiological Sources | IDAPA 58.01.01.317.01.b.i.(30) |
| SOIL | Soil Areas | SOIL-003 | Fugitive Soil: Southwest Sewage Lagoon | IDAPA 58.01.01.317.01.b.i.(30) |
| SOIL | Soil Areas | SOIL-004 | Fugitive Soil: NRF Perimeter Area | IDAPA 58.01.01.317.01.b.i.(30) |

1. The references listed under the basis of significance level are from IDAPA 58.01.01.

# Radioactive Waste Management Complex Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for Vent/Stack, Tank, or Equipment | Source Description | Justification |
|---|---|---|---|---|
| WMF-637 | Operations Control Building | | One 1.2-MMBtu/hr and one 1.0 MMBtu/hr propane boilers | IDAPA 58.01.01.317.b.i.(5) |
| WMF-637 | Operations Control Building | | 1.0-MMBtu/hr propane water heater | IDAPA 58.01.01.317.b.i.(18) |
| WMF-655 | Material Handling Facility | | 350,000 Btu propane space heater | IDAPA 58.01.01.317.b.i.(18) |
| WMF-655 | WMF-655 | | 500-gallon propane tank | IDAPA 58.01.01.317.b.i.(4) |
| WMF-737 | Material Handling Facility | | 300-gallon gasoline tank | IDAPA 58.01.01.317.b.i.(30) |
| WMF-731 | Sewage Treatment Ponds | | 4 evaporative treatment ponds | IDAPA 58.01.01.317.b.i.(29) |
| WMF-639 | NA[1] | | 250-gallon diesel AST | IDAPA 58.01.01.317.b.i.(30) |
| WMF-732 | NA | | 12,000-gallon propane AST | IDAPA 58.01.01.317.b.i.(4) |
| WMF-603 | S-GEN-0301 | | 660-gallon diesel fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| BAS-TR-OT10 | BA-TK-T0101 | | 40-gallon diesel fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| BAS-TR-OT11 | BA-TK-T1101 | | 40-gallon diesel fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| S-GEN-RE501 | S-GEN-RE501 | | 194-gallon diesel fuel tank | IDAPA 58.01.01.317.b.i.(30) |
| WMF-1617 | ARP-V Enclosure | | 2.4 MMBtu propane space heater | IDAPA 58.01.01.317.b.i.(18) |
| 1617-SW-prop | LP-TK-RE-501, LP-TK-RE-501, LP-TK-RE-501 and LP-TK-RE-501 | | Four 1000-gallon propane tanks | IDAPA 58.01.01.317.b.i.(4) |

1. NA-Not assigned.

# Specific Manufacturing Capability Insignificant Sources per IDAPA 58.01.01.317.01.b

| Bldg or Structure # | Bldg or Structure Name | ID# for Vent/Stack, Tank, or Equipment | Source Description | Justification [a] |
|---|---|---|---|---|
| TAN 629 | Phase 1 | 629-029 | Line 1 laser | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 629 | Phase 1 | 629-015-L9 | Line 9 laser | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 629 | Phase 1 | 629-016-L10PL | Line 10 plasma | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 629 | Phase 1 | 629-017-L10LSR | Line 10 laser | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 675 | Engineering/ESH&QA suppport/admin. | TK-BC-102 | 400 gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 677 | Maintenance/production | 677-031-LSR | Line 7 laser | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 677 | Maintenance/production | TAN 677-030 | plasma arc cutting | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 679 | Phase 2 | TK-HA-117 | 400-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN-679 | Phase 2 | TK-HA-121 | 200-gallon diesel AST | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN-679 | Phase 2 | TK-1741 | 48,000 gallon diesel UST | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 679 | Phase 2 | TK-1742 | 48,000 gallon diesel UST | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 679 | Phase 2 | 679-022/023/024 | abrasive recycling | IDAPA 58.01.01.317.01.b.i.(30) |
| TAN 679A | Annex | TK-HC-912 | 500 gallon propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| TAN 679A | Annex | TK-HC-913 | 500 gallon propane tank | IDAPA 58.01.01.317.01.b.i.(4) |
| TAN 679A | Annex | 679 west vent A | propane pilot/combustion | IDAPA 58.01.01.317.01.b.i.(5) |
| TAN 679A | Annex | 679 west vent B | propane pilot/combustion | IDAPA 58.01.01.317.01.b.i.(5) |
| TAN, area wide | area wide | area wide | welding | IDAPA 58.01.01.317.01.b.i.(9) |
| TAN | SMC evaporation ponds | Cells 1-3 | wastewater evaporation ponds | IDAPA 58.01.01.317.01.b.i.(29) |

a. The regulatory citation listed is the criterion for determining a source is an "insignificant activity" per the Idaho Administrative Procedures Act (IDAPA) 58.01.01.317. Sources that are in the 317.01.b.i. list (i.e. on the basis of size or production rate) are required to be listed in the permit application.

# APPENDIX F – RESONSE TO PUBLIC COMMENTS

# Response to Public Comments
# Submitted During the Public Comment Period
# for the INL. Tier I Operating Permit No. T1-2009.0148
# AIRS Facility No. 023-00001, No. 011-00022

## Response to Comments

A public comment period was held from November 15, 2012 through December 17, 2012 to let any interested party review and comment on the draft Tier I operating permit prepared by Idaho DEQ for the INL. 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 Idaho Falls Regional offices and on DEQ's website in PDF format. An opportunity for a public hearing was provided from November 15, 2012 through November 27, 2012. 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."* The state Montana and the Fort Hall Indian Reservation are an affected states, and as such, DEQ also provided a copy of the public comment package for their review and comment. As a courtesy the draft permit was also made available to the State of Wyoming.

The only party that provided comments during the public comment period or hearing was INL. This document provides DEQ's response to the comments submitted. Comments are given then DEQ's response immediately follows.

## INL Tier I OP:

**Facility Comment # 1**

Page 8, permit condition 2.6.

As written, permit condition 2.6 will require the permittee to always perform a corrective action, per permit condition 2.6.a, even if the visible emissions are within the standard. The permittee should have the option to perform either 2.6.a (a corrective action) or 2.6.b (a Method 9 test), but not be required to do both in all cases, as there may be scenarios where visible emissions are present that meet the standard and the source does not need a corrective action. Thus the permittee should only be required to perform 2.6.b (a Method 9 test). Changing the last sentence of 2.6 paragraph one to "If any visible emissions are present from any point of emission, the permittee shall either:" and inserting "or" between 2.6.a and 2.6.b will require one or the other to be performed, but not both.

**DEQ Response #1:**

DEQ revised the permit to reflect this comment. DEQ revised Permit Condition 2.6 to read as follows:

"The permittee shall conduct a quarterly facility-wide inspection of potential sources of visible emissions, during daylight hours and under normal operating conditions. Sources that are monitored using a continuous opacity monitoring system (COMS) are not required to comply with this permit condition. The inspection shall consist of a see/no see evaluation for each potential source of visible emissions. If any visible emissions are present from any point of emission, the permittee shall either:

a) take appropriate corrective action as expeditiously as practicable to eliminate the visible emissions. Within 24 hours of the initial see/no see evaluation and after the corrective action, the permittee shall conduct a see/no see evaluation of the emissions point in question. If the visible emissions are not eliminated, the permittee shall comply with b).

or

b) perform a Method 9 opacity test in accordance with the procedures outlined in IDAPA 58.01.01.625. A minimum of 30 observations shall be recorded when conducting the opacity test. If opacity is greater than 20%, as measured using Method 9, for a period or periods aggregating more than three minutes in any 60-minute period, the permittee shall take all necessary corrective actions and report the period or periods as an excess emission in the annual compliance certification and in accordance with IDAPA 58.01.01.130–136."

**Facility Comment # 2**

Page 44- permit condition 9.2.8- Table 9.6 item 4.

Table 9.6 item number 4 should be deleted. Item 4 is not applicable to the option selected by the permittee (reducing CO emissions).

**DEQ Response #2:**

DEQ revised the permit to reflect this comment. Item 4 in Table 9.6 (Table 5 to Subpart ZZZZ) of the permit is not the option that is preferred by INL. Therefore, DEQ deleted item 4 in Table 9.6 in the draft permit.