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10-037

September 2016

## **National Emission Standards for Hazardous Air Pollutants Subpart ZZZZ**

### **Reciprocating Internal Combustion Engines**

#### **Applicable Citations per Source Classification & Engine Type** *Based on March 9, 2011 Amendments*

*The intent of this document is to provide an assistance tool for complying with the National Emission Standards for Hazardous Air Pollutant regulations. These tables are by no means inclusive and are not meant to serve as a substitute for being aware of and understanding all applicable regulations.*

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## Introduction

The Environmental Protection Agency (EPA) developed regulations to reduce hazardous air pollutant emission from reciprocating internal combustion engines. These regulations were initially finalized June 15, 2004 and have since been amended several times with the most recent being August 20, 2010. The regulations are found in 40 Code of Federal Regulations Part 63 – National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart ZZZZ for Reciprocating Internal Combustion Engines.

This regulation only applies to stationary sources. Stationary source engines are located at their “point of use” for 12 months (or less for seasonal sources). This regulation does not apply to non-road engines such as cranes, bulldozers, lawn mowers, etc. Stationary engines may be portable and still considered stationary sources (i.e. engines powering portable asphalt plants). If you have any questions regarding whether your engine is considered stationary, contact the Nebraska Department of Environmental Quality (NDEQ) Air Quality Permit Hotline at 877-834-0474.

The intent of this document is to provide an assistance tool for complying with the NESHAP regulations. These tables are by no means inclusive and are not meant to serve as a substitute for being aware of and understanding all applicable regulations.

### How to Use This Document

#### 1. Determine if You are Area or Major

To use this document you will first need to know if your source is an *area* or *major* source of hazardous air pollutants (HAPs). *Area sources* emit or have the potential-to-emit less than 10 tons per year of a single HAP or 25 tons per year of combined HAPs. *Major sources* emit or have the potential-to-emit greater than or equal to 10 tons per year of a single HAP or 25 tons per year of combined HAPs.

Potential-to-emit is the maximum quantity of HAPs a source could emit in a year given its physical and operational design. Your potential emissions can include reductions for control equipment or other process limitations if they are included in a federally enforceable permit or applicable federal regulation. If you need help determining whether you are an area or major source of HAP, contact the Nebraska Department of Environmental Quality (NDEQ) Air Quality Permit Hotline at 877-834-0474.

#### 2. Determine if You are New or Existing

Next, you’ll need to determine if your engine is classified as *existing* or *new* under the NESHAP regulations.

Your engine is classified as *existing* if it is:

- Located at a major source of HAP, is > 500 horsepower (HP), and the engine was installed or built on-site before 12/19/02; or
- Located at a major source of HAP, is ≤ 500 HP, and the engine was installed or built on-site before 6/12/06; or
- Located at an area source of HAP and the engine was installed or built on-site before 6/12/06.

The engine is classified as *new* if:

- The engine is installed, built on-site, or reconstructed on or after the above dates. A change in ownership of an existing engine doesn't reclassify the engine as a new engine.

### 3. Determine Your Engine Type & Use

The engine regulations are categorized by engine type, horsepower, and use. You'll make the following determinations for each engine.

Is the engine:

- Compression ignition or spark ignition?
  - If it is spark ignition, is it two-stroke lean burn (2SLB), four-stroke lean burn (4SLB), four-stroke rich burn (4SRB), or landfill/digester gas?
    - « Dual fuel engines using 2% or more diesel on a total energy basis are compression ignition even if they have spark plugs.
    - « Landfill/digester gas engines combust landfill or digester gas equivalent to 10% or more of gross heat input on annual basis.
- Emergency or non-emergency?
  - Emergency engines are limited to emergency situations and required testing & maintenance.
    - § Emergency engines can supply emergency power as part of financial agreement.
    - § There is no limit on the hours an engine can operate during emergencies
    - § Emergency engines can operate in non-emergency situations up to 100 hours per year.
      - This includes required testing & maintenance and 50 hours non-emergency operation, as long as it isn't for peak shaving.
      - The 100 hours includes 15 hours per year as part of demand response time if regional transmission organization has determined emergency conditions
  - It is a non-emergency engine if:
    - § It is used for peak shaving
    - § It is used to supply power to an electric grid or that supply non-emergency power as part of a financial agreement
    - § Exception: it can be used a maximum of 15 hours/year as part of demand response if regional transmission organization has determined emergency conditions and still be considered emergency.
- Black start or non-black start?
  - Black start engines are only used to start combustion turbine.
- Limited use?
  - Limited use engines operate less than 100 hours per year.

You will also need to know the brake horsepower (HP) for each engine and the displacement in liters per cylinder for compression ignition engines > 300 HP.

#### **4. Locate Table Based on Engine Type and Source Classification.**

There is a table for each type of engine and source classification. The document is divided into three sections: engines at area sources; engines  $\leq$  500 horsepower (HP) at major sources; and engines  $>$  500 HP at major sources.

Within each section existing engines will be listed first and new/reconstructed engines follow. Further, the tables will list requirements based on engine type (compression ignition or spark ignition) and engine size or use (HP rating, emergency, etc.). Each table will include regulatory citations from 40 CFR Part 63 NESHAP Subpart ZZZZ. The tables are divided into subsections including: applicability; general requirements and provisions, compliance, notifications, reports, and records. Following the subsection citations will be a general summary of the requirements. Be sure to read the rule citation for the specific requirements.

*Note: The Table of Contents includes a hyperlink to each engine table within the document. A hyperlink is located at the end of each table which will take you back to the Table of Contents.*

#### **Resources and Tools Available**

The NDEQ Air Toxics Notebook located at [www.deq.state.ne.us/AirToxic.nsf/pages/ZZZZ](http://www.deq.state.ne.us/AirToxic.nsf/pages/ZZZZ) contains the electronic Code of Federal Regulations link for the rule citations, federal register documents, guidance documents, training materials, and other helpful information.

You can also find the page by going to the NDEQ website and selecting "Focus on Air." The Air Toxics Notebook is under the Air Toxics Program. From the Notebook, select Subpart ZZZZ - Reciprocating Internal Combustion Engines. EPA's engine website can be found at <http://www.epa.gov/ttn/atw/rice/ricepg.html>. You can also contact the NDEQ Air Toxics Coordinator at (402) 471-2189.

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## **Engines at Area Sources**

## Area Source Requirements

### Existing Compression Ignition Engine Emergency and Black Start

| REQUIREMENTS   | CITATION  |
|--|---|
| <p><b>Applicability</b></p>  | 63.6580 = Purpose   |
|  | 63.6585 (a); (c); and (d) = Who is Subject  |
|  | 63.6590 (a)(1)(iii) and (iv) = What is Covered  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <p><b>General Requirements and Provisions</b></p>  | 63.6605 = General Compliance  |
|  | 63.6665 = General Provisions  |
|  | 63.6670 = Implementation & Enforcement  |
|  | 63.6675 = Definitions   |
|  | Table 8 = General Provisions  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |
| <p><b>Compliance</b></p>   | 63.6595 (a)(1) and (b) = Compliance Date  |
|  | 63.6603 (a) = Operating Limitations   |
|  | 63.6625 (e)(3); (f) [emergency engines only]; (h); and (i) = Monitoring/Operation/Maintenance |
|  | 63.6640 (a) and (f)(1) [emergency engines only]; = Continuous Compliance                      |
|  | Tables 2d (#4) and 6 (#9) = Requirements  |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 500 hours of operation or annually, whichever comes first; 2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(i).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> <li>• <i>Emergency engines must install a non-resettable hour meter. Black start engines are not required to install an hour meter.</i></li> </ul> |   |
| <p><b>Notifications</b></p>  | 63.6645 (a)(5)  |

## Area Source Requirements

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>No notifications are required for this source.</li> </ul>   |  |
| <b>Reports</b>   | na   |
| <ul style="list-style-type: none"> <li>No reports are required for this source.</li> </ul>   |  |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); (e)(2) [emergency engines only]; (e)(3) [black start engines only]; and (f)(2) [emergency engines only] |
|  | 63.6660  |
| <ul style="list-style-type: none"> <li>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</li> <li>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</li> <li>They must keep records of maintenance conducted.</li> <li>If the emergency engine doesn't meet the same emission standards as those applicable to non-emergency engines, the source must keep records of the hours spent for emergency operation, what classified the operation as emergency, and how many hours are spent for non-emergency operation. If the emergency engines are used for demand response operations, they must keep records of the notification of the emergency situation and the time the engine operated as part of demand response. This does not apply to black start engines.</li> <li>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</li> </ul> |  |

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## Area Source Requirements

### Existing Compression Ignition Engine Non-emergency ≤ 300 HP

| REQUIREMENTS  | CITATION  |
|---|---|
| <p><b>Applicability</b></p>   | 63.6580 = Purpose   |
|   | 63.6585 (a); (c); and (d) = Who is Subject                      |
|   | 63.6590 (a)(1)(iii) and (iv) = What is Covered                  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>   |   |
| <p><b>General Requirements and Provisions</b></p>   | 63.6605 = General Compliance                                    |
|   | 63.6665 = General Provisions                                    |
|   | 63.6670 = Implementation & Enforcement                          |
|   | 63.6675 = Definitions   |
|   | Table 8 = General Provisions                                    |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>   |   |
| <p><b>Compliance</b></p>  | 63.6595 (a)(1) and (b) = Compliance Date                        |
|   | 63.6603 (a) = Operating Limitations                             |
|   | 63.6625 (e)(4); (h); and (i) = Monitoring/Operation/Maintenance |
|   | 63.6640 (a) = Continuous Compliance                             |
|   | Tables 2d (#1) and 6 (#9) = Requirements                        |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 1,000 hours of operation or annually, whichever comes first; 2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(i).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |   |
| <p><b>Notifications</b></p>   | 63.6645 (a)(5)  |

## Area Source Requirements

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>No notifications are required for this source.</li> </ul>   |   |
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>No reports are required for this source.</li> </ul>   |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(3) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</li> <li>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</li> <li>They must keep records of maintenance conducted.</li> <li>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</li> </ul> |   |

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## Area Source Requirements

### Existing Compression Ignition Engine Non-emergency > 300 HP ≤ 500 HP

| REQUIREMENTS  | CITATION  |
|---|---|
| <p><b>Applicability</b></p>   | 63.6580 = Purpose   |
|   | 63.6585 (a); (c); and (d) = Who is Subject                      |
|   | 63.6590 (a)(1)(iii) and (iv) = What is Covered                  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>   |   |
| <p><b>General Requirements and Provisions</b></p>   | 63.6605 = General Compliance                                    |
|   | 63.6665 = General Provisions                                    |
|   | 63.6670 = Implementation & Enforcement                          |
|   | 63.6675 = Definitions   |
|   | Table 8 = General Provisions                                    |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>   |   |
| <p><b>Compliance</b></p>  | 63.6595 (a)(1); (b); and (c) = Compliance Date                  |
|   | 63.6603 (a) = Operating Limitations                             |
|   | 63.6604 = Fuel Requirements                                     |
|   | 63.6612 = Initial Performance Test                              |
|   | 63.6620 = Performance Test Procedures                           |
|   | 63.6625 (g) and (h) =<br>Monitoring/Operation/Maintenance       |
|   | 63.6630 = Initial Compliance                                    |
|   | 63.6640 (b) and (e) = Continuous Compliance                     |
|   | Tables 2d (#2); 4 (#1 or #3); and 5 (#12 or #13) = Requirements |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013 and comply with all notification requirements of this subpart and of Subpart A – General Provisions.</i></li> <li>• <i>The source must limit the concentration of carbon monoxide (CO) in the engine exhaust to 49 ppmvd at 15% oxygen or reduce the engine's CO emissions by 70% or more.</i></li> <li>• <i>Engines with displacement &lt; 30 liters per cylinder must utilize diesel fuel meeting the non-road diesel fuel requirements in 40 CFR 80.510(b); which requires a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or aromatic content of 35% volume.</i></li> <li>• <i>The source must perform an initial performance test within 180 days after the compliance date. An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart (5/3/10); 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes</i></li> </ul> |   |

## Area Source Requirements

|   |   |
|---|---|
| <p><i>have been made or they must be able to demonstrate the results of the test despite changes are still valid. Performance tests must be conducted according to the procedures in 63.6620.</i></p> <ul style="list-style-type: none"> <li>• <i>A closed crankcase ventilation system must be installed or an open crankcase filtration emission control system that reduces emissions from the crankcase must be installed. The source must operate and maintain the crankcase ventilation system and replace the crankcase filters according to the manufacturer's specified requirements. The source can request from the permitting authority to approve a different maintenance requirement.</i></li> <li>• <i>During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The source is not required to monitor operating parameters and have no specific requirements to demonstrate continuous compliance with the emission limit. There are no requirements listed in Table 6 for these engines.</i></li> <li>• <i>The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.</i></li> </ul>  |   |
| <b>Notifications</b>  | 63.6645 (a)(2); (g); and (h)  |
| <ul style="list-style-type: none"> <li>• <i>An initial notification must be submitted by August 31, 2010.</i></li> <li>• <i>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</i></li> <li>• <i>A Notification of Compliance Status must be submitted within 60 days of the performance test.</i></li> </ul>  |   |
| <b>Reports</b>  | 63.6650 (a); (b)(1) – (5); (c)(1) – (5); (d); and (f) = not limited use engine    |
|   | 63.6650 (a); (b)(6) – (9); (c)(1) – (5); (d); and (f) = <u>limited</u> use engine |
|   | Table 7 (#1) and (i) = not limited use engine                                     |
|   | Table 7 (#1) and (ii) = <u>limited</u> use engine                                 |
| <ul style="list-style-type: none"> <li>• <i>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</i></li> <li>• <i>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:</i> <ul style="list-style-type: none"> <li>○ <i>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</i></li> <li>○ <i>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</i></li> <li>○ <i>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</i></li> </ul> </li> <li>• <i>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</i></li> <li>• <i>If the engine is defined as "limited use" in accordance with the rule, an annual report is</i></li> </ul> |   |

## Area Source Requirements

|  |             |
|--|-------------|
| <i>required instead of semiannual.</i>   |             |
| <ul style="list-style-type: none"><li>○ <i>Annual reports are due January 31 for the period between January 1 through December 31.</i></li></ul>   |             |
| <b>Records</b>   | 63.6655 (a) |
|  | 63.6660     |
| <ul style="list-style-type: none"><li>· <i>The source must keep records of all notifications and reports submitted.</i></li><li>· <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li><li>· <i>They must keep records of performance tests and maintenance performed.</i></li><li>· <i>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li></ul> |             |

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## Area Source Requirements

### Existing Compression Ignition Engine Non-emergency > 500 HP

| REQUIREMENTS  | CITATION   |  |
|---|--|--|
| <p><b>Applicability</b></p>   | 63.6580 = Purpose  |  |
|   | 63.6585 (a); (c); and (d) = Who is Subject   |  |
|   | 63.6590 (a)(1)(iii) and (iv) = What is Covered   |  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>   | 63.6605 = General Compliance   |  |
|   | 63.6665 = General Provisions   |  |
|   | 63.6670 = Implementation & Enforcement   |  |
|   | 63.6675 = Definitions  |  |
|   | Table 8 = General Provisions   |  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul> | 63.6595 (a)(1); (b); and (c) = Compliance Date   |  |
|   | 63.6603 (a) = Operating Limitations  |  |
|   | 63.6604 = Fuel Requirements  |  |
|   | 63.6612 = Initial Performance Test   |  |
|   | 63.6615 = Subsequent Performance Tests   |  |
| <p><b>Compliance</b></p>  | 63.6620 = Performance Test Procedures  |  |
|   | 63.6625 (a); (b); (g); and (h) = Monitoring/Operation/Maintenance  |  |
|   | 63.6630 = Initial Compliance   |  |
|   | 63.6635 = Continuous Monitoring  |  |
|   | 63.6640 (a); (b); and (e) = Continuous Compliance  |  |
|   | Tables 2b; 2d (#3); 3 (#4 or #5); 4 (#1 or #3); 5 (#1 - #6); and Table 6 (#3, #10, #11, #12, or #13) = Requirements  |  |
|   | <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013 and comply with all notification requirements of this subpart and of Subpart A – General Provisions.</i></li> <li>• <i>The source must limit the concentration of carbon monoxide (CO) in the engine exhaust to 23 ppmvd at 15% oxygen or reduce the engine's CO emissions by 70% or more.</i></li> <li>• <i>Engines with displacement &lt; 30 liters per cylinder must utilize diesel fuel meeting the non-road diesel fuel requirements in 40 CFR 80.510(b); which requires a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or aromatic content of 35% volume.</i></li> <li>• <i>The source must perform an initial performance test within 180 days after the</i></li> </ul> |  |
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## Area Source Requirements

|  |                                 |
|--|---------------------------------|
| <p><i>compliance date. An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart (5/3/10); 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they must be able to demonstrate the results of the test despite changes are still valid. Performance tests must be conducted according to the procedures in 63.6620.</i></p> <ul style="list-style-type: none"> <li>• <i>The source must perform subsequent emission tests.           <ul style="list-style-type: none"> <li>○ <i>Not limited use = Test every 8,760 hours of operation or every three years, whichever comes first (Table 3, #4).</i></li> <li>○ <i>Limited use = Test every 8,760 hours of operation or every five years, whichever comes first (Table 3, #5).</i></li> </ul> </i></li> <li>• <i>A closed crankcase ventilation system must be installed or an open crankcase filtration emission control system that reduces emissions from the crankcase must be installed. The source must operate and maintain the crankcase ventilation system and replace the crankcase filters according to the manufacturer's specified requirements. The source can request from the permitting authority to approve a different maintenance requirement.</i></li> <li>• <i>During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>Sources have compliance and continuous monitoring options to demonstrate compliance with the CO emission limits.           <ul style="list-style-type: none"> <li>○ <i>If they use an oxidation catalyst or non-selective catalytic reduction (NSCR), they can utilize a continuous parameter monitoring system (CPMS). They must continuously monitor catalyst inlet temperature and record the catalyst pressure drop monthly. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually.</i></li> <li>○ <i>If they do not use an oxidation catalyst or NSCR, they must install a CPMS and monitor parameters as specified in the site specific monitoring plan. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually.</i></li> <li>○ <i>If they use a continuous emissions monitor (CEMS), they must continuously monitor CO and oxygen or carbon dioxide at the inlet and outlet of the oxidation catalyst. They must also conduct an annual relative accuracy test audit of the CEMS.</i></li> </ul> </i></li> <li>• <i>If they are using an oxidation catalyst:           <ul style="list-style-type: none"> <li>○ <i>The must maintain the catalyst so the pressure drop doesn't change by more than 2 inches of water at 100 percent load plus or minus 10% from the pressure drop measured during the performance test and</i></li> <li>○ <i>Maintain the temperature of the engine exhaust so catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F.</i></li> </ul> </i></li> <li>• <i>If they are not using an oxidation catalyst:           <ul style="list-style-type: none"> <li>○ <i>The must comply with any operating limitations approved by the EPA.</i></li> </ul> </i></li> <li>• <i>The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.</i></li> </ul> |                                 |
| <b>Notifications</b>   | 63.6645 (a)(2); (g); and (h)(2) |

## Area Source Requirements

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| <ul style="list-style-type: none"> <li>• An initial notification must be submitted by August 31, 2010.</li> <li>• A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</li> <li>• A Notification of Compliance Status must be submitted within 60 days of the performance test.</li> </ul>  |  |
| <b>Reports</b>   | 63.6650 (a); (b)(1) – (5); (c); (d); (e); and (f) = not limited use engine |
|  | 63.6650 (a); (b)(6) – (9); (c); (d); (e); and (f) = limited use engine     |
|  | Table 7 (#1) and (i) = not limited use engine                              |
|  | Table 7 (#1) and (ii) = limited use engine                                 |
| <ul style="list-style-type: none"> <li>• A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</li> <li>• Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:             <ul style="list-style-type: none"> <li>○ The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</li> <li>○ Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</li> <li>○ If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</li> </ul> </li> <li>• If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</li> <li>• If the engine is defined as “limited use” in accordance with the rule, an annual report is required instead of semiannual. Annual reports are due January 31 for the period between January 1 through December 31.</li> </ul> |  |
| <b>Records</b>   | 63.6655 (a); (b); and (d).   |
|  | 63.6660  |
| <ul style="list-style-type: none"> <li>• The source must keep records of all notifications and reports submitted.</li> <li>• This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</li> <li>• They must keep records of performance tests and maintenance performed.</li> <li>• They must keep all CPMS or CEMS records and all records required to demonstrate continuous compliance with the emissions limit.</li> <li>• Records must be in a form suitable, readily available for expeditious review, and kept for five years.</li> </ul>   |  |

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## Area Source Requirements

### Existing Spark Ignition Engine Emergency and Black Start

| REQUIREMENTS   | CITATION  |
|--|---|
| <p style="text-align: center;"><b>Applicability</b></p>  | 63.6580 = Purpose   |
|  | 63.6585 (a); (c); and (d) = Who is Subject  |
|  | 63.6590 (a)(1)(iii) and (iv) = What is Covered  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <p style="text-align: center;"><b>General Requirements and Provisions</b></p>  | 63.6605 = General Compliance  |
|  | 63.6665 = General Provisions  |
|  | 63.6670 = Implementation & Enforcement  |
|  | 63.6675 = Definitions   |
|  | Table 8 = General Provisions  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |
| <p style="text-align: center;"><b>Compliance</b></p>   | 63.6595 (a)(1) and (b) = Compliance Date  |
|  | 63.6603 (a) = Operating Limitations   |
|  | 63.6625 (e)(3); (f) [emergency engines only]; (h); and (j) = Monitoring/Operation/Maintenance |
|  | 63.6640 (a) and (f)(1) [emergency engines only] = Continuous Compliance                       |
|  | Tables 2d (#5) and 6 (#9) = Requirements  |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 500 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |   |

## Area Source Requirements

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| <ul style="list-style-type: none"> <li>Emergency engines must install a non-resettable hour meter. Black start engines are not required to install an hour meter.</li> </ul>   |  |
| <b>Notifications</b>   | 63.6645 (a)(5)   |
| <ul style="list-style-type: none"> <li>No notifications are required for this source.</li> </ul>   |  |
| <b>Reports</b>   | na   |
| <ul style="list-style-type: none"> <li>No reports are required for this source.</li> </ul>   |  |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); (e)(2) [emergency engines only]; (e)(3) [black start engines only]; and (f)(2) [emergency engines only] |
|  | 63.6660  |
| <ul style="list-style-type: none"> <li>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</li> <li>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</li> <li>They must keep records of maintenance conducted.</li> <li>If the emergency engine doesn't meet the same emission standards as those applicable to non-emergency engines, the source must keep records of the hours spent for emergency operation, what classified the operation as emergency, and how many hours are spent for non-emergency operation. If the emergency engines are used for demand response operations, they must keep records of the notification of the emergency situation and the time the engine operated as part of demand response. This does not apply to black start engines.</li> <li>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</li> </ul> |  |

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## Area Source Requirements

### Existing Spark Ignition Engine Non-emergency Landfill or Digester Gas

| REQUIREMENTS   | CITATION  |
|--|---|
| <p><b>Applicability</b></p>  | 63.6580 = Purpose   |
|  | 63.6585 (a); (c); and (d) = Who is Subject                      |
|  | 63.6590 (a)(1)(iii) and (iv) = What is Covered                  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <p><b>General Requirements and Provisions</b></p>  | 63.6605 = General Compliance                                    |
|  | 63.6665 = General Provisions                                    |
|  | 63.6670 = Implementation & Enforcement                          |
|  | 63.6675 = Definitions   |
|  | Table 8 = General Provisions                                    |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |
| <p><b>Compliance</b></p>   | 63.6595 (a)(1) and (b) = Compliance Date                        |
|  | 63.6603 (a) = Operating Limitations                             |
|  | 63.6625 (e)(6); (h); and (j) = Monitoring/Operation/Maintenance |
|  | 63.6640 (a) = Continuous Compliance                             |
|  | Tables 2d (#11) and 6 (#9) = Requirements                       |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 1,440 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |   |
| <p><b>Notifications</b></p>  | 63.6645 (a)(5)  |
| <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul>  |   |

## Area Source Requirements

|  |   |
|--|---|
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>· <i>No reports are required for this source.</i></li> </ul>  |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(3) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>· <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li>· <i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>· <i>They must keep records of maintenance conducted.</i></li> <li>· <i>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |   |

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## Area Source Requirements

### Existing Spark Ignition Engine Non-emergency Two-stroke Lean Burn (2SLB)

| REQUIREMENTS   | CITATION   |
|--|--|
| <p style="text-align: center;"><b>Applicability</b></p>  | 63.6580 = Purpose  |
|  | 63.6585 (a); (c); and (d) = Who is Subject                         |
|  | 63.6590 (a)(1)(iii) and (iv) = What is Covered                     |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |  |
| <p style="text-align: center;"><b>General Requirements and Provisions</b></p>  | 63.6605 = General Compliance                                       |
|  | 63.6665 = General Provisions                                       |
|  | 63.6670 = Implementation & Enforcement                             |
|  | 63.6675 = Definitions  |
|  | Table 8 = General Provisions                                       |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |  |
| <p style="text-align: center;"><b>Compliance</b></p>   | 63.6595 (a)(1) and (b) = Compliance Date                           |
|  | 63.6603 (a) = Operating Limitations                                |
|  | 63.6625 (e)(5); (h); and (j) =<br>Monitoring/Operation/Maintenance |
|  | 63.6640 (a) = Continuous Compliance                                |
|  | Tables 2d (#6) and 6 (#9) = Requirements                           |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 4,320 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |  |

## Area Source Requirements

|  |   |
|--|---|
| <b>Notifications</b>   | 63.6645 (a)(5)                          |
| <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul>  |   |
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>• <i>No reports are required for this source.</i></li> </ul>  |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(3) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li>• <i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>• <i>They must keep records of maintenance conducted.</i></li> <li>• <i>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |   |

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## Area Source Requirements

**Existing Spark Ignition Engine  
Non-emergency  
Four-stroke Lean Burn  $\leq$  500 HP  
Four-stroke Rich Burn  $\leq$  500 HP**

| REQUIREMENTS   | CITATION   |
|--|--|
| <b>Applicability</b>   | 63.6580 = Purpose  |
|  | 63.6585 (a); (c); and (d) = Who is Subject                             |
|  | 63.6590 (a)(1)(iii) and (iv) = What is Covered                         |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |  |
| <b>General Requirements and Provisions</b>   | 63.6605 = General Compliance   |
|  | 63.6665 = General Provisions   |
|  | 63.6670 = Implementation & Enforcement                                 |
|  | 63.6675 = Definitions  |
|  | Table 8 = General Provisions   |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |  |
| <b>Compliance</b>  | 63.6595 (a)(1) and (b) = Compliance Date                               |
|  | 63.6603 (a) = Operating Limitations                                    |
|  | 63.6625 (e)(7) or (8); (h); and (j) = Monitoring/Operation/Maintenance |
|  | 63.6640 (a) = Continuous Compliance                                    |
|  | Tables 2d (#7 or #9) and 6 (#9) = Requirements                         |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 1,440 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |  |

## Area Source Requirements

|  |   |
|--|---|
| <b>Notifications</b>   | 63.6645 (a)(5)                          |
| <ul style="list-style-type: none"> <li>No notifications are required for this source.</li> </ul>   |   |
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>No reports are required for this source.</li> </ul>   |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(3) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</li> <li>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</li> <li>They must keep records of maintenance conducted.</li> <li>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</li> </ul> |   |

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## Area Source Requirements

**Existing Spark Ignition Engine  
Non-emergency  
Four-stroke Lean Burn > 500 HP that operates ≤ 24 hours/year  
Four-stroke Rich Burn > 500 HP that operates ≤ 24 hours/year**

| REQUIREMENTS   | CITATION  |
|--|---|
| <b>Applicability</b>   | 63.6580 = Purpose   |
|  | 63.6585 (a); (c); and (d) = Who is Subject                              |
|  | 63.6590 (a)(1)(iii) and (iv) = What is Covered                          |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <b>General Requirements and Provisions</b>   | 63.6605 = General Compliance  |
|  | 63.6665 = General Provisions  |
|  | 63.6670 = Implementation & Enforcement                                  |
|  | 63.6675 = Definitions   |
|  | Table 8 = General Provisions  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |
| <b>Compliance</b>  | 63.6595 (a)(1) and (b) = Compliance Date                                |
|  | 63.6603 (a) = Operating Limitations                                     |
|  | 63.6625 (e)(9) or (10); (h); and (j) = Monitoring/Operation/Maintenance |
|  | 63.6640 (a) = Continuous Compliance                                     |
|  | Tables 2d (#5) and 6 (#9) = Requirements                                |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 500 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |   |
| <b>Notifications</b>   | 63.6645 (a)(5)  |
| <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul>  |   |

## Area Source Requirements

|  |   |
|--|---|
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>· <i>No reports are required for this source.</i></li> </ul>  |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(3) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>· <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li>· <i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>· <i>They must keep records of maintenance conducted.</i></li> <li>· <i>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |   |

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## Area Source Requirements

### Existing Spark Ignition Engine Non-emergency

**Four-stroke Lean Burn (4SLB) > 500 HP that operates > 24 hours/year**  
**Four-stroke Rich Burn (4SRB) > 500 HP that operates > 24 hours/year**

| REQUIREMENTS   | CITATION   |
|--|--|
| <p><b>Applicability</b></p>  | 63.6580 = Purpose  |
|  | 63.6585 (a); (c); and (d) = Who is Subject   |
|  | 63.6590 (a)(1)(iii) and (iv) = What is Covered   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are not required to obtain a Title V permit solely due to this subpart.</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |  |
| <p><b>General Requirements and Provisions</b></p>  | 63.6605 = General Compliance   |
|  | 63.6665 = General Provisions   |
|  | 63.6670 = Implementation & Enforcement   |
|  | 63.6675 = Definitions  |
|  | Table 8 = General Provisions   |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |  |
| <p><b>Compliance</b></p>   | 63.6595 (a)(1); (b); and (c) = Compliance Date   |
|  | 63.6603 (a) = Operating Limitations  |
|  | 63.6612 = Initial Performance Test   |
|  | 63.6615 = Subsequent Performance Tests   |
|  | 63.6620 = Performance Test Procedures  |
|  | 63.6625 (a); (b); and (h) = Monitoring/Operation/Maintenance   |
|  | 63.6630 = Initial Compliance   |
|  | 63.6635 = Continuous Monitoring  |
|  | 63.6640 (a); (b); and (e) = Continuous Compliance  |
|  | Tables 1b; 2b; 2d (#8 or #10); 3 (#4 or #5); 4 (#1-#3); 5 (#1-#11); and Table 6 (#3, #10, #11, #12, or #13) = Requirements |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013 and comply with all notification requirements of this subpart and of Subpart A – General Provisions.</i></li> <li>• <i>The source must limit their emissions to:</i> <ul style="list-style-type: none"> <li>○ <i>For 4SLB: Limit the concentration of carbon monoxide (CO) in the engine exhaust to 47 ppmvd at 15% oxygen or reduce the engine's CO emissions by 93% or more.</i></li> <li>○ <i>For 4SRB: Limit the concentration of formaldehyde in the engine exhaust to 2.7 ppmvd at 15% oxygen or reduce the engine's formaldehyde emissions</i></li> </ul> </li> </ul> |  |

## Area Source Requirements

by 76% or more.

- *The source must perform an initial performance test within 180 days after the compliance date. An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart (10/19/10); 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they must be able to demonstrate the results of the test despite changes are still valid. Performance tests must be conducted according to the procedures in 63.6620.*
- *The source must perform subsequent emission tests.*
  - *Not limited use = Test every 8,760 hours of operation or every three years, whichever comes first (Table 3, #4).*
  - *Limited use = Test every 8,760 hours of operation or every five years, whichever comes first (Table 3, #5).*
- *Sources have compliance and continuous monitoring options to demonstrate compliance with the CO or formaldehyde emission limits.*
  - *If they use an oxidation catalyst or non-selective catalytic reduction (NSCR) to reduce CO or formaldehyde, they can utilize a continuous parameter monitoring system (CPMS). They must continuously monitor catalyst inlet temperature and record the catalyst pressure drop monthly. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually.*
  - *If they do not use an oxidation catalyst or NSCR to reduce CO or formaldehyde, they must install a CPMS and monitor parameters as specified in the site specific monitoring plan. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually.*
  - *If they use a continuous emissions monitor (CEMS), they must continuously monitor CO and oxygen or carbon dioxide at the inlet and outlet of the oxidation catalyst. They must also conduct an annual relative accuracy test audit of the CEMS.*
- *If the 4SRB is reducing formaldehyde using an NSCR:*
  - *The must maintain the catalyst so the pressure drop doesn't change by more than 2 inches of water at 100 percent load plus or minus 10% from the pressure drop measured during the performance test and*
  - *Maintain the temperature of the engine exhaust so catalyst inlet temperature is greater than or equal to 750°F and less than or equal to 1250°F.*
- *If the 4SRB is reducing formaldehyde and are not using an NSCR:*
  - *The must comply with any operating limitations approved by the EPA.*
- *If the 4SLB is reducing CO and using an oxidation catalyst:*
  - *The must maintain the catalyst so the pressure drop doesn't change by more than 2 inches of water at 100 percent load plus or minus 10% from the pressure drop measured during the performance test and*
  - *Maintain the temperature of the engine exhaust so catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F.*
- *If the 4SLB is reducing formaldehyde and are not using an oxidation catalyst:*
  - *The must comply with any operating limitations approved by the EPA.*

## Area Source Requirements

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.</li> <li>The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.</li> </ul>  |  |
| <b>Notifications</b>  | 63.6645 (a)(2); (g); and (h)(2)  |
| <ul style="list-style-type: none"> <li>An initial notification must be submitted by February 16, 2011.</li> <li>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</li> <li>A Notification of Compliance Status must be submitted within 60 days of the performance test.</li> </ul>   |  |
| <b>Reports</b>  | 63.6650 (a); (b)(1) – (5); (c); (d); (e); and (f) = not limited use engine |
|   | 63.6650 (a); (b)(6) – (9); (c); (d); (e); and (f) = limited use engine     |
|   | Table 7 (#1) and (i) = not limited use engine                              |
|   | Table 7 (#1) and (ii) = limited use engine                                 |
| <ul style="list-style-type: none"> <li>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</li> <li>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule: <ul style="list-style-type: none"> <li>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</li> <li>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30<sup>th</sup> day following the end of each six month period.</li> <li>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</li> </ul> </li> <li>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</li> <li>If the engine is defined as “limited use” in accordance with the rule, an annual report is required instead of semiannual. <ul style="list-style-type: none"> <li>Annual reports are due January 31 for the period of January 1 through December 31.</li> </ul> </li> </ul> |  |
| <b>Records</b>  | 63.6655 (a); (b); and (d).   |
|   | 63.6660  |
| <ul style="list-style-type: none"> <li>The source must keep records of all notifications and reports submitted.</li> <li>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</li> <li>They must keep records of performance tests and maintenance performed.</li> </ul>   |  |

## Area Source Requirements

- *They must keep all CPMS or CEMS records and all records required to demonstrate continuous compliance with the emissions limit.*
- *Records must be in a form suitable, readily available for expeditious review, and kept for five years.*

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## Area Source Requirements

### Existing Engine Emergency Residential, Commercial, and Institutional

| REQUIREMENTS   | CITATION  |
|--|---|
| <b>Applicability</b>   | 63.6580 = Purpose   |
|  | 63.6585 (a) and (c) = Who is Subject  |
|  | 63.6590 (a)(1)(iii) and (iv) and (b)(3)(vi, vii, or viii) = What is Covered |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>This is an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> <li>• <i>They do not have to comply with any requirements of this subpart or Subpart A. Definitions of residential, commercial, and institutional emergency engines are found in 63.6675.</i></li> </ul> |   |

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## Area Source Requirements

### New/Reconstructed Engine

| REQUIREMENTS   | CITATION  |
|--|---|
| <b>Applicability</b>   | 63.6580 = Purpose   |
|  | 63.6585 (a) and (d) = Who is Subject                          |
|  | 63.6590 (a)(2)(iii) and (3)(iii) and (c)(1) = What is Covered |
| <ul style="list-style-type: none"> <li>• <i>This source is a reciprocating internal combustion engine (RICE) and an area source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are a new or reconstructed source (commenced construction or reconstruction on or after 6/12/06).</i></li> <li>• <i>They do not have to comply with any requirements of this subpart. They must comply with the New Source Performance Standards Subpart IIII for Compression Ignition Engines or Subpart JJJJ for Spark Ignition Engines (as applicable).</i></li> </ul> |   |

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## **Engines $\leq$ 500 HP at Major Sources**

## Major Source Requirements

### Existing Compression Ignition Engine Emergency and Black Start ≤ 500 HP

| REQUIREMENTS   | CITATION  |   |
|--|---|---|
| <p><b>Applicability</b></p>  | 63.6580 = Purpose                                 |   |
|  | 63.6585 (a) and (b) = Who is Subject              |   |
|  | 63.6590 (a)(1)(ii) and (iv) = What is Covered     |   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>   |   |   |
|  | <p><b>General Requirements and Provisions</b></p> | 63.6605 = General Compliance  |
| 63.6665 = General Provisions   |   |   |
| 63.6670 = Implementation & Enforcement   |   |   |
| 63.6675 = Definitions  |   |   |
| Table 8 = General Provisions   |   |   |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |   |
|  | <p><b>Compliance</b></p>                          | 63.6595 (a)(1) = Compliance Date  |
|  |   | 63.6602 = Operating Limitations   |
|  |   | 63.6625 (e)(2); (f) [emergency engines only]; (h); and (i) = Monitoring/Operation/Maintenance |
|  |   | 63.6640 (a) and (f)(1) [emergency engines only] = Continuous Compliance                       |
| Tables 2c (#1) and 6 (#9) = Requirements   |   |   |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 500 hours of operation or annually, whichever comes first; 2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(i).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> <li>• <i>Emergency engines must install a non-resettable hour meter. Black start engines are not required to install an hour meter.</i></li> </ul> |   |   |

## Major Source Requirements

|   |  |
|---|--|
| <b>Notifications</b>  | 63.6645 (a)(5)   |
| <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul>   |  |
| <b>Reports</b>  | na   |
| <ul style="list-style-type: none"> <li>• <i>No reports are required for this source.</i></li> </ul>   |  |
| <b>Records</b>  | 63.6655 (a)(2) and (5); (d); (e)(2) [emergency engines only]; (e)(3) [black start engines only]; and (f)(1) [emergency engines only] |
|   | 63.6660  |
| <ul style="list-style-type: none"> <li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li>• <i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>• <i>They must keep records of maintenance conducted.</i></li> <li>• <i>If the emergency engine doesn't meet the same emission standards as those applicable to non-emergency engines, the source must keep records of the hours spent for emergency operation, what classified the operation as emergency, and how many hours are spent for non-emergency operation. If the emergency engines are used for demand response operations, they must keep records of the notification of the emergency situation and the time the engine operated as part of demand response. This does not apply to black start engines.</i></li> <li>• <i>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |  |

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## Major Source Requirements

### Existing Compression Ignition Engine Non-emergency ≤ 100 HP

| REQUIREMENTS  | CITATION  |
|---|---|
| <p style="text-align: center;"><b>Applicability</b></p>   | 63.6580 = Purpose   |
|   | 63.6585 (a) and (b) = Who is Subject                            |
|   | 63.6590 (a)(1)(ii) and (iv) = What is Covered                   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <p style="text-align: center;"><b>General Requirements and Provisions</b></p>   | 63.6605 = General Compliance                                    |
|   | 63.6665 = General Provisions                                    |
|   | 63.6670 = Implementation & Enforcement                          |
|   | 63.6675 = Definitions   |
|   | Table 8 = General Provisions                                    |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>   |   |
| <p style="text-align: center;"><b>Compliance</b></p>  | 63.6595 (a)(1) = Compliance Date                                |
|   | 63.6602 = Operating Limitations                                 |
|   | 63.6625 (e)(1); (h); and (i) = Monitoring/Operation/Maintenance |
|   | 63.6640 (a) = Continuous Compliance                             |
|   | Tables 2c (#2) and 6 (#9) = Requirements                        |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 1,000 hours of operation or annually, whichever comes first; 2) Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(i).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |   |

## Major Source Requirements

|  |   |
|--|---|
| <b>Notifications</b>   | 63.6645 (a)(5)                          |
| <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul>  |   |
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>• <i>No reports are required for this source.</i></li> </ul>  |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(1) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li>• <i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>• <i>They must keep records of maintenance conducted.</i></li> <li>• <i>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |   |

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## Major Source Requirements

### Existing Compression Ignition Engine Non-emergency > 100 HP ≤ 300 HP

| REQUIREMENTS  | CITATION  |
|---|---|
| <p><b>Applicability</b></p>   | 63.6580 = Purpose   |
|   | 63.6585 (a) and (b) = Who is Subject                            |
|   | 63.6590 (a)(1)(ii) and (iv) = What is Covered                   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <p><b>General Requirements and Provisions</b></p>   | 63.6605 = General Compliance                                    |
|   | 63.6665 = General Provisions                                    |
|   | 63.6670 = Implementation & Enforcement                          |
|   | 63.6675 = Definitions   |
|   | Table 8 = General Provisions                                    |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>   |   |
| <p><b>Compliance</b></p>  | 63.6595 (a)(1) and (c) = Compliance Date                        |
|   | 63.6602 = Operating Limitations                                 |
|   | 63.6612 = Initial Performance Test                              |
|   | 63.6620 = Performance Test Procedures                           |
|   | 63.6625 (h) = Monitoring/Operation/Maintenance                  |
|   | 63.6630 = Initial Compliance                                    |
|   | 63.6640 (b) and (e) = Continuous Compliance                     |
|   | Tables 2c (#3); 4 (#1 or #3); and 5 (#12 or #13) = Requirements |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013 and comply with all notification requirements of this subpart and of Subpart A – General Provisions.</i></li> <li>• <i>The source must limit the concentration of carbon monoxide (CO) in the engine exhaust to 230 ppmvd at 15% oxygen.</i></li> <li>• <i>The source must perform an initial performance test within 180 days after the compliance date. An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart (5/3/10); 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they must be able to demonstrate the results of the test despite changes are still valid. Performance tests must be conducted according to the procedures in 63.6620.</i></li> <li>• <i>During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The source is not required to monitor operating parameters and have no specific requirements to demonstrate continuous compliance with the emission limit. There are no requirements listed in Table 6 for these engines.</i></li> <li>• <i>The source must report deviations of emission limitations and each instance conditions in</i></li> </ul> |   |

## Major Source Requirements

| <i>Table 8 (General Provisions) are not met.</i>  |  |
|---|--|
| <b>Notifications</b>  | 63.6645 (a)(1); (g); and (h)   |
| <ul style="list-style-type: none"> <li>• <i>An initial notification must be submitted by August 31, 2010.</i></li> <li>• <i>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</i></li> <li>• <i>A Notification of Compliance Status must be submitted within 60 days of the performance test.</i></li> </ul>  |  |
| <b>Reports</b>  | 63.6650 (a); (b)(1) – (5); (c)(1) – (5); (d); and (f) = not limited use engine |
|   | 63.6650 (a); (b)(6) – (9); (c)(1) – (5); (d); and (f) = limited use engine     |
|   | Table 7 (#1) and (i) = not limited use engine                                  |
|   | Table 7 (#1) and (ii) = limited use engine                                     |
| <ul style="list-style-type: none"> <li>• <i>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</i></li> <li>• <i>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:</i> <ul style="list-style-type: none"> <li>○ <i>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</i></li> <li>○ <i>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</i></li> <li>○ <i>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</i></li> </ul> </li> <li>• <i>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</i></li> <li>• <i>If the engine is defined as “limited use” in accordance with the rule, an annual report is required instead of semiannual.</i> <ul style="list-style-type: none"> <li>○ <i>Annual reports are due January 31 for the period between January 1 through December 31.</i></li> </ul> </li> </ul> |  |
| <b>Records</b>  | 63.6655 (a)  |
|   | 63.6660  |
| <ul style="list-style-type: none"> <li>• <i>The source must keep records of all notifications and reports submitted.</i></li> <li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>• <i>They must keep records of performance tests and maintenance performed.</i></li> <li>• <i>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul>   |  |

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### Existing Compression Ignition Engine Non-emergency > 300 HP ≤ 500 HP

## Major Source Requirements

| REQUIREMENTS   | CITATION  |  |
|--|---|--|
| <p style="text-align: center;"><b>Applicability</b></p>  | 63.6580 = Purpose   |  |
|  | 63.6585 (a) and (b) = Who is Subject  |  |
|  | 63.6590 (a)(1)(ii) and (iv) = What is Covered                                 |  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>   |   |  |
|  | <p style="text-align: center;"><b>General Requirements and Provisions</b></p> | 63.6605 = General Compliance             |
| 63.6665 = General Provisions   |   |  |
| 63.6670 = Implementation & Enforcement   |   |  |
| 63.6675 = Definitions  |   |  |
| Table 8 = General Provisions   |   |  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |  |
|  | <p style="text-align: center;"><b>Compliance</b></p>                          | 63.6595 (a)(1) and (c) = Compliance Date |
|  |   | 63.6602 = Operating Limitations          |
|  |   | 63.6604 = Fuel Requirements              |
| 63.6612 = Initial Performance Test   |   |  |
| 63.6620 = Performance Test Procedures  |   |  |
| 63.6625 (g) and (h) =<br>Monitoring/Operation/Maintenance  |   |  |
| 63.6630 = Initial Compliance   |   |  |
| 63.6640 (b) and (e) = Continuous Compliance  |   |  |
| Tables 2c (#4); 4 (#1 or #3); and 5 (#12 or #13) = Requirements  |   |  |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013 and comply with all notification requirements of this subpart and of Subpart A – General Provisions.</i></li> <li>• <i>The source must limit the concentration of carbon monoxide (CO) in the engine exhaust to 49 ppmvd at 15% oxygen or reduce CO emissions by 70% or more.</i></li> <li>• <i>Engines with displacement &lt; 30 liters per cylinder must utilize diesel fuel meeting the non-road diesel fuel requirements in 40 CFR 80.510(b); which requires a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or aromatic content of 35% volume.</i></li> <li>• <i>The source must perform an initial performance test within 180 days after the compliance date. An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart (5/3/10); 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they must be able to demonstrate the results of the test despite changes are still valid. Performance tests must be conducted according to the procedures in 63.6620.</i></li> </ul> |   |  |

## Major Source Requirements

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• <i>During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>A closed crankcase ventilation system must be installed or an open crankcase filtration emission control system that reduces emissions from the crankcase must be installed.</i></li> <li>• <i>The source must operate and maintain the crankcase ventilation system and replace the crankcase filters according to the manufacturer's specified requirements. The source can request from the permitting authority to approve a different maintenance requirement.</i></li> <li>• <i>The source is not required to monitor operating parameters and have no specific requirements to demonstrate continuous compliance with the emission limit. There are no requirements listed in Table 6 for these engines.</i></li> <li>• <i>The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.</i></li> </ul>  |  |
| <b>Notifications</b>  | 63.6645 (a)(1); (g); and (h)   |
| <ul style="list-style-type: none"> <li>• <i>An initial notification must be submitted by August 31, 2010.</i></li> <li>• <i>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</i></li> <li>• <i>A Notification of Compliance Status must be submitted within 60 days of the performance test.</i></li> </ul>  |  |
| <b>Reports</b>  | 63.6650 (a); (b)(1) – (5); (c)(1) – (5); (d); and (f) = not limited use engine |
|   | 63.6650 (a); (b)(6) – (9); (c)(1) – (5); (d); and (f) = limited use engine     |
|   | Table 7 (#1) and (i) = not limited use engine                                  |
|   | Table 7 (#1) and (ii) = limited use engine                                     |
| <ul style="list-style-type: none"> <li>• <i>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</i></li> <li>• <i>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:</i> <ul style="list-style-type: none"> <li>○ <i>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</i></li> <li>○ <i>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</i></li> <li>○ <i>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</i></li> </ul> </li> <li>• <i>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</i></li> <li>• <i>If the engine is defined as "limited use" in accordance with the rule, an annual report is required instead of semiannual.</i> <ul style="list-style-type: none"> <li>○ <i>Annual reports are due January 31 for the period between January 1 through December 31.</i></li> </ul> </li> </ul> |  |
| <b>Records</b>  | 63.6655 (a)  |

## Major Source Requirements

|  |         |
|--|---------|
|  | 63.6660 |
| <ul style="list-style-type: none"><li>• <i>The source must keep records of all notifications and reports submitted.</i></li><li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li><li>• <i>They must keep records of performance tests and maintenance performed.</i></li><li>• <i>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li></ul> |         |

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## Major Source Requirements

### Existing Spark Ignition Engine Emergency and Black Start Engines ≤ 500 HP

| REQUIREMENTS  | CITATION  |  |
|---|---|--|
| <p><b>Applicability</b></p>   | 63.6580 = Purpose   |  |
|   | 63.6585 (a) and (b) = Who is Subject  |  |
|   | 63.6590 (a)(1)(ii) and (iv) = What is Covered   |  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  | 63.6605 = General Compliance  |  |
|   | 63.6665 = General Provisions  |  |
|   | 63.6670 = Implementation & Enforcement  |  |
|   | 63.6675 = Definitions   |  |
|   | Table 8 = General Provisions  |  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>   | 63.6595 (a)(1) = Compliance Date  |  |
|   | 63.6602 = Operating Limitations   |  |
|   | 63.6625 (e)(2); (f); (h); and (j) = Monitoring/Operation/Maintenance                                      |  |
|   | 63.6640 (a) and (f)(1) = Continuous Compliance  |  |
|   | Tables 2c (#6) and 6 (#9) = Requirements  |  |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 500 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> <li>• <i>They must install a non-resettable hour meter.</i></li> </ul> | <p><b>Notifications</b></p>   |  |
|   | 63.6645 (a)(5)  |  |
|   | <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul> |  |

## Major Source Requirements

|   |   |
|---|---|
| <b>Reports</b>  | na  |
| <ul style="list-style-type: none"> <li><i>No reports are required for this source.</i></li> </ul>   |   |
| <b>Records</b>  | 63.6655 (a)(2) and (5); (d); (e)(2); and (f)(1) |
|   | 63.6660   |
| <ul style="list-style-type: none"> <li><i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li><i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li><i>They must keep records of maintenance conducted.</i></li> <li><i>If the engine doesn't meet the same emission standards as those applicable to non-emergency engines, the source must keep records of the hours spent for emergency operation, what classified the operation as emergency, and how many hours are spent for non-emergency operation. If the engines are used for demand response operations, they must keep records of the notification of the emergency situation and the time the engine operated as part of demand response.</i></li> <li><i>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |   |

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## Major Source Requirements

### Existing Spark Ignition Engine Non-emergency Engine ≤ 100 HP Except Two-Stroke Lean Burn

| REQUIREMENTS   | CITATION  |
|--|---|
| <b>Applicability</b>   | 63.6580 = Purpose   |
|  | 63.6585 (a) and (b) = Who is Subject                            |
|  | 63.6590 (a)(1)(ii) and (iv) = What is Covered                   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/2/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <b>General Requirements and Provisions</b>   | 63.6605 = General Compliance                                    |
|  | 63.6665 = General Provisions                                    |
|  | 63.6670 = Implementation & Enforcement                          |
|  | 63.6675 = Definitions   |
|  | Table 8 = General Provisions                                    |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |
| <b>Compliance</b>  | 63.6595 (a)(1) = Compliance Date                                |
|  | 63.6602 = Operating Limitations                                 |
|  | 63.6625 (e)(1); (h); and (j) = Monitoring/Operation/Maintenance |
|  | 63.6640 (a) = Continuous Compliance                             |
|  | Tables 2c (#7) and 6 (#9) = Requirements                        |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 1,440 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |   |
| <b>Notifications</b>   | 63.6645 (a)(5)  |
| <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul>  |   |

## Major Source Requirements

|  |   |
|--|---|
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>· <i>No reports are required for this source.</i></li> </ul>  |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(1) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>· <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li>· <i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>· <i>They must keep records of maintenance conducted.</i></li> <li>· <i>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |   |

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## Major Source Requirements

### Existing Spark Ignition Engine Non-emergency Two-Stroke Lean Burn (2SLB) ≤ 100 HP

| REQUIREMENTS   | CITATION  |   |
|--|---|---|
| <p><b>Applicability</b></p>  | 63.6580 = Purpose   |   |
|  | 63.6585 (a) and (b) = Who is Subject  |   |
|  | 63.6590 (a)(1)(ii) and (iv) = What is Covered   |   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>   |   |   |
|  | <p><b>General Requirements and Provisions</b></p>   | 63.6605 = General Compliance                                    |
| 63.6665 = General Provisions   |   |   |
| 63.6670 = Implementation & Enforcement   |   |   |
| 63.6675 = Definitions  |   |   |
| Table 8 = General Provisions   |   |   |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |   |
|  | <p><b>Compliance</b></p>  | 63.6595 (a)(1) = Compliance Date                                |
|  |   | 63.6602 = Operating Limitations                                 |
|  |   | 63.6625 (e)(1); (h); and (j) = Monitoring/Operation/Maintenance |
|  |   | 63.6640 (a) = Continuous Compliance                             |
| Tables 2c (#8) and 6 (#9) = Requirements   |   |   |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013.</i></li> <li>• <i>This source is required to perform the following maintenance: 1) Change their oil and filter every 4,320 hours of operation or annually, whichever comes first; 2) Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first; and 3) Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.</i></li> <li>• <i>They have an option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 63.6625(j).</i></li> <li>• <i>During periods of startup, they must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The engine must be operated and maintained according to the manufacturer's instructions or in accordance with a maintenance plan developed by the source which provides for maintenance and operation consistent with good air pollution control practices.</i></li> </ul> |   |   |
|  | <p><b>Notifications</b></p>   | 63.6645 (a)(5)  |
|  | <ul style="list-style-type: none"> <li>• <i>No notifications are required for this source.</i></li> </ul> |   |

## Major Source Requirements

|  |   |
|--|---|
| <b>Reports</b>   | na                                      |
| <ul style="list-style-type: none"> <li>· <i>No reports are required for this source.</i></li> </ul>  |   |
| <b>Records</b>   | 63.6655 (a)(2) and (5); (d); and (e)(1) |
|  | 63.6660                                 |
| <ul style="list-style-type: none"> <li>· <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable).</i></li> <li>· <i>Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>· <i>They must keep records of maintenance conducted.</i></li> <li>· <i>All records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |   |

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## Major Source Requirements

**Existing Spark Ignition Engine  
Non-emergency  
Two-Stroke Lean Burn (2SLB) >100 HP ≤ 500 HP  
Four-Stroke Lean Burn (4SLB) >100 HP ≤ 500 HP  
Four-Stroke Rich Burn (4SRB) >100 HP ≤ 500 HP  
Landfill or Digester Gas >100 HP ≤ 500 HP**

| REQUIREMENTS  | CITATION   |
|---|--|
| <b>Applicability</b>  | 63.6580 = Purpose                                    |
|   | 63.6585 (a) and (b) = Who is Subject                 |
|   | 63.6590 (a)(1)(ii) and (iv) = What is Covered        |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 6/12/06). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |  |
| <b>General Requirements and Provisions</b>  | 63.6605 = General Compliance                         |
|   | 63.6665 = General Provisions                         |
|   | 63.6670 = Implementation & Enforcement               |
|   | 63.6675 = Definitions                                |
|   | Table 8 = General Provisions                         |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>   |  |
| <b>Compliance</b>   | 63.6595 (a)(1) and (c) = Compliance Date             |
|   | 63.6602 = Operating Limitations                      |
|   | 63.6612 = Initial Performance Test                   |
|   | 63.6620 = Performance Test Procedures                |
|   | 63.6625 (h) = Monitoring/Operation/Maintenance       |
|   | 63.6630 = Initial Compliance                         |
|   | 63.6640 (b) and (e) = Continuous Compliance          |
|   | Tables 2c (#9 - #12); and 4 (#1 - #3) = Requirements |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by October 19, 2013 and comply with all notification requirements of this subpart and of Subpart A – General Provisions.</i></li> <li>• <i>The source must limit their emissions to:</i> <ul style="list-style-type: none"> <li>○ <i>For 2SLB: Limit the concentration of carbon monoxide (CO) in the engine exhaust to 225 ppmvd at 15% oxygen.</i></li> <li>○ <i>For 4SLB: Limit the concentration of CO in the engine exhaust to 47 ppmvd at 15%.</i></li> <li>○ <i>For 4SRB: Limit the concentration of formaldehyde in the engine exhaust to 10.3 ppmvd at 15% oxygen.</i></li> <li>○ <i>For Landfill or Digester Gas: Limit the concentration of CO in the engine exhaust to 177 ppmvd at 15% oxygen.</i></li> </ul> </li> <li>• <i>The source must perform an initial performance test within 180 days after the compliance date. An initial test may not be required if a performance test has already</i></li> </ul> |  |

## Major Source Requirements

|  |   |
|--|---|
| <p><i>been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart (10/19/10); 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they must be able to demonstrate the results of the test despite changes are still valid. Performance tests must be conducted according to the procedures in 63.6620.</i></p> <ul style="list-style-type: none"> <li>• <i>During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.</i></li> <li>• <i>The source is not required to monitor operating parameters and have no specific requirements to demonstrate continuous compliance with the emission limit. There are no requirements listed in Table 6 for these engines.</i></li> <li>• <i>The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.</i></li> </ul>   |   |
| <b>Notifications</b>   | 63.6645 (a)(1); (g); and (h)  |
| <ul style="list-style-type: none"> <li>• <i>An initial notification must be submitted by February 16, 2011.</i></li> <li>• <i>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</i></li> <li>• <i>A Notification of Compliance Status must be submitted within 60 days of the performance test.</i></li> </ul>   |   |
| <b>Reports</b>   | 63.6650 (a); (b)(1) – (5); (c)(1) – (5); (d); and (f) = not limited use engine    |
|  | 63.6650 (a); (b)(6) – (9); (c)(1) – (5); (d); and (f) = <u>limited</u> use engine |
|  | Table 7 (#1) and (i) = not limited use engine                                     |
|  | Table 7 (#1) and (ii) = <u>limited</u> use engine                                 |
| <ul style="list-style-type: none"> <li>• <i>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</i></li> <li>• <i>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:</i> <ul style="list-style-type: none"> <li>○ <i>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</i></li> <li>○ <i>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</i></li> <li>○ <i>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</i></li> </ul> </li> <li>• <i>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</i></li> <li>• <i>If the engine is defined as “limited use” in accordance with the rule, an annual report is required instead of semiannual.</i> <ul style="list-style-type: none"> <li>○ <i>Annual reports are due January 31 for the period of January 1 through December 31.</i></li> </ul> </li> </ul> |   |

## Major Source Requirements

| Records  | 63.6655 (a) and (d) |
|--|---------------------|
|  | 63.6660             |
| <ul style="list-style-type: none"><li>• <i>The source must keep records of all notifications and reports submitted.</i></li><li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li><li>• <i>They must keep records of performance tests and maintenance performed.</i></li><li>• <i>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li></ul> |                     |

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## Major Source Requirements

**New/Reconstructed Engine**  
**Compression Ignition  $\leq 500$  HP**  
**Spark Ignition 2SLB  $\leq 500$  HP**  
**Spark Ignition 4SLB  $\leq 250$  HP**  
**Spark Ignition 4SRB  $\leq 500$  HP**  
**Emergency and Limited Use (Except 4SLB  $> 250$  HP  $\leq 500$  HP)**  
**Landfill or Digester Gas  $\leq 500$  HP**

| REQUIREMENTS   | CITATION  |
|--|---|
| <b>Applicability</b>   | 63.6580 = Purpose   |
|  | 63.6585 (a) and (b) = Who is Subject                          |
|  | 63.6590 (a)(2)(ii) and (3)(ii) and (c)(2-7) = What is Covered |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are a new or reconstructed source (commenced construction or reconstruction on or after 6/12/06).</i></li> <li>• <i>They do not have to comply with any requirements of this subpart (reiterated in 63.6640(e)). They must comply with the New Source Performance Standards Subpart IIII for Compression Ignition Engines or Subpart JJJJ for Spark Ignition Engines (as applicable).</i></li> </ul> |   |

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## Major Source Requirements

### New/Reconstructed Spark Ignition Engine 4SLB > 250 HP ≤ 500 HP Manufactured After 1/1/08

| REQUIREMENTS  | CITATION   |
|---|--|
| <p><b>Applicability</b></p>   | 63.6580 = Purpose  |
|   | 63.6585 (a) and (b) = Who is Subject   |
|   | 63.6590 (a)(2)(ii) and (3)(ii) = What is Covered   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are a new or reconstructed source (commenced construction or reconstruction on or after 6/12/06).</i></li> </ul>  |  |
|   | <p><b>General Requirements and Provisions</b></p>  |
| 63.6665 = General Provisions  |  |
| 63.6670 = Implementation & Enforcement  |  |
| 63.6675 = Definitions   |  |
| Table 8 = General Provisions  |  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State’s the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>   |  |
| <p><b>Compliance</b></p>  | 63.6595 (a)(4) or (5) and (c) = Compliance Date  |
|   | 63.6601 = Operating Limitations  |
|   | 63.6611 = Initial Performance Test   |
|   | 63.6615 = Subsequent Tests   |
|   | 63.6620 = Performance Test Procedures  |
|   | 63.6625 (a); (b); (d)[emergency only]; and (h) = Monitoring/Operation/Maintenance                                  |
|   | 63.6630 = Initial Compliance   |
|   | 63.6635 = Continuous Monitoring  |
|   | 63.6640 (a); (b); (d); and (e) = Continuous Compliance   |
|   | Tables 2a(#2); 2b; 3 (#1 or #3); 4 (#1 or #3); 5 (#1, #3, #5, #6, #7, #10, or #11); and 6 (#7 or #8)= Requirements |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by January 18, 2008 or upon startup and comply with all notification requirements of this subpart and of Subpart A – General Provisions. Except that compliance with the continuous parameter monitoring provisions in 63.6625(b) and Table 5 is required by September 6, 2011.</i></li> <li>• <i>Emergency engines are required to install a non-resettable meter and do not have to meet any other requirements of this rule, except minimizing idle time during startup under 63.6625(h) .</i></li> <li>• <i>If the engine was manufactured on or after 1/1/08, they must comply with emission limitations in Table 2a and 2b.</i> <ul style="list-style-type: none"> <li>○ <i>Reduce carbon monoxide (CO) emissions by 93% or more or limit the concentration of formaldehyde in the engine exhaust to 14 ppmvd at 15%</i></li> </ul> </li> </ul> |  |

## Major Source Requirements

- oxygen.*
  - o Note: These engines may also have requirements under New Source Performance Standards for Spark Ignition Engines (40 CFR Part 60 Subpart JJJJ).*
- If the engine was manufactured before 1/1/08, they have no emission limits or compliance requirements under the NESHAP, but may have requirements under the New Source Performance Standards for Spark Ignition Engines (40 CFR Part 60 Subpart JJJJ).*
- The source must perform an initial performance test within 240 days after the compliance date. Performance tests must be conducted according to the procedures in 63.6620.*
- If they are reducing CO or formaldehyde using an oxidation catalyst:*
  - o The must maintain the catalyst so the pressure drop doesn't change by more than 2 inches of water at 100 percent load plus or minus 10% from the pressure drop measured during the performance test and*
  - o Maintain the temperature of the engine exhaust so catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F.*
- If they are reducing CO or formaldehyde and are not using an oxidation catalyst:*
  - o The must comply with any operating limitations approved by the EPA.*
- During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes. This applies to emergency engines also.*
- Sources have compliance and continuous monitoring options to demonstrate compliance with the CO or formaldehyde emission limits.*
  - o If they use an oxidation catalyst or non-selective catalytic reduction (NSCR) to reduce CO or formaldehyde, they can utilize a continuous parameter monitoring system (CPMS). They must continuously monitor catalyst inlet temperature and record the catalyst pressure drop monthly. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually..*
  - o If they do not use an oxidation catalyst or NSCR to reduce CO or formaldehyde, they must install a CPMS and monitor parameters as specified in the site specific monitoring plan. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually.*
  - o If they use a continuous emissions monitor (CEMS), they must continuously monitor CO and oxygen or carbon dioxide at the inlet and outlet of the oxidation catalyst. They must also conduct an annual relative accuracy test audit of the CEMS.*
- Subsequent emission tests:*
  - o If they are reducing CO and not using a continuous emissions monitor; they must conduct subsequent emission tests semiannually.*
  - o If they are reducing formaldehyde in the exhaust, they must conduct subsequent emission tests semiannually.*
  - o If they demonstrate compliance for two consecutive tests, they may reduce the frequency to annually. If results indicate noncompliance or they deviate from the operating limitations, they must resume semiannual performance tests.*
- The source must report deviations of emission limitations and each instance conditions*

## Major Source Requirements

|   |  |
|---|--|
| <p><i>in Table 8 (General Provisions) are not met.</i></p> <ul style="list-style-type: none"> <li>• <i>Deviations from the emission limitations that occur during the first 200 hours of operation from engine startup are not violations.</i></li> </ul>   |  |
| <b>Notifications</b>  | 63.6645 (a)(4); (d); (e); (g); and (h)(2)                                  |
| <ul style="list-style-type: none"> <li>• <i>An initial notification must be submitted by July 16, 2008 for sources that began operation before 3/18/08. An initial notification is due 120 days after startup if you startup operation after 3/18/08.</i></li> <li>• <i>Emergency engines do not have to submit any notifications.</i></li> <li>• <i>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</i></li> <li>• <i>A Notification of Compliance Status must be submitted within 60 days of the performance test.</i></li> </ul>   |  |
| <b>Reports</b>  | 63.6650 (a); (b)(1) – (5); (c); (d); (e); and (f) = not limited use engine |
|   | 63.6650 (a); (b)(6) – (9); (c); (d); (e); and (f) = limited use engine     |
|   | Table 7 (#1) and (i) = not limited use engine                              |
|   | Table 7 (#1) and (ii) = limited use engine                                 |
| <ul style="list-style-type: none"> <li>• <i>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</i></li> <li>• <i>Emergency engines do not have to submit reports.</i></li> <li>• <i>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:</i> <ul style="list-style-type: none"> <li>○ <i>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</i></li> <li>○ <i>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</i></li> <li>○ <i>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</i></li> </ul> </li> <li>• <i>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</i></li> <li>• <i>If the engine is defined as “limited use” in accordance with the rule, an annual report is required instead of semiannual.</i> <ul style="list-style-type: none"> <li>○ <i>Annual reports are due January 31 for the period of January 1 through December 31.</i></li> </ul> </li> </ul> |  |
| <b>Records</b>  | 63.6655 (a); (b); and (d)  |
|   | 63.6660  |
| <ul style="list-style-type: none"> <li>• <i>The source must keep records of all notifications and reports submitted.</i></li> <li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective</i></li> </ul>   |  |

## Major Source Requirements

- action taken.*
- *They must keep records of performance tests, maintenance performed.*
  - *They must keep all CPMS or CEMS records and all records required to demonstrate continuous compliance with the emissions limit.*
  - *Records must be in a form suitable, readily available for expeditious review, and kept for five years.*

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## **Engines > 500 HP at Major Source**

**Existing Engine**  
**Emergency > 500 HP**  
**Limited Use > 500 HP**  
**Landfill or Digester Gas > 500 HP**  
**Spark Ignition 2SLB > 500 HP**  
**Spark Ignition 4SLB > 500 HP**

| REQUIREMENTS  | CITATION   |
|---|--|
| <b>Applicability</b>  | 63.6580 = Purpose  |
|   | 63.6585 (a) and (b) = Who is Subject   |
|   | 63.6590 (a)(1)(i) and (iv) and (b)(3)(i, ii, iii, iv, or v)<br>= What is Covered |
| <ul style="list-style-type: none"> <li>· <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>· <i>This is an existing source (commenced construction before 12/19/02). A change in ownership doesn't make an existing engine a new engine.</i></li> <li>· <i>They do not have to comply with any requirements of this subpart or Subpart A. This is also reiterated in 63.6600(c) and 63.6640(e).</i></li> </ul> |  |

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## Major Source Requirements

### Existing Compression Ignition Non-emergency > 500 HP

| REQUIREMENTS   | CITATION  |   |
|--|---|---|
| <p><b>Applicability</b></p>  | 63.6580 = Purpose                                 |   |
|  | 63.6585 (a); and (b) = Who is Subject             |   |
|  | 63.6590 (a)(1)(i) and (iv) = What is Covered      |   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing source (commenced construction before 12/19/02). A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |   |
|  | <p><b>General Requirements and Provisions</b></p> | 63.6605 = General Compliance              |
| 63.6665 = General Provisions   |   |   |
| 63.6670 = Implementation & Enforcement   |   |   |
| 63.6675 = Definitions  |   |   |
| Table 8 = General Provisions   |   |   |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |   |
|  | <p><b>Compliance</b></p>                          | 63.6595 (a)(1); and (c) = Compliance Date |
|  |   | 63.6600 (d) = Operating Limitations       |
|  |   | 63.6604 = Fuel Requirements               |
| 63.6610 (a) and (d) = Initial Performance Test   |   |   |
| 63.6615 = Subsequent Performance Tests   |   |   |
| 63.6620 = Performance Test Procedures  |   |   |
| 63.6625 (a); (b); (g); and (h) = Monitoring/Operation/Maintenance  |   |   |
| 63.6630 = Initial Compliance   |   |   |
| 63.6635 = Continuous Monitoring  |   |   |
| 63.6640 (a); (b); and (e) = Continuous Compliance  |   |   |
| Tables 2b, 2c (#5); 3 (#4, or #5); 4 (#1 or #3); 5 (#1 - #6); and Table 6 (#3, #10, #11, #12, or #13) = Requirements   |   |   |
| <ul style="list-style-type: none"> <li>• <i>This source must be in compliance by May 3, 2013 and comply with all notification requirements of this subpart and of Subpart A – General Provisions.</i></li> <li>• <i>The source must limit the concentration of carbon monoxide (CO) in the engine exhaust to 23 ppmvd at 15% oxygen or reduce the engine's CO emissions by 70% or more.</i></li> <li>• <i>Engines with displacement &lt; 30 liters per cylinder must utilize diesel fuel meeting the non-road diesel fuel requirements in 40 CFR 80.510(b); which requires a maximum sulfur content of 15 ppm and a minimum cetane index of 40 or aromatic content of 35% volume.</i></li> <li>• <i>The source must perform an initial performance test within 180 days after the compliance date. An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart (May3, 2010); 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they</i></li> </ul> |   |   |
|  |   |   |
|  |   |   |
|  |   |   |

## Major Source Requirements

*must be able to demonstrate the results of the test despite changes are still valid. Performance tests must be conducted according to the procedures in 63.6620.*

- *The source must perform subsequent emission tests.
 
  - *Not limited use = Test every 8,760 hours of operation or every three years, whichever comes first (Table 3, #4).*
  - *Limited use = Test every 8,760 hours of operation or every five years, whichever comes first (Table 3, #5).**
- *A closed crankcase ventilation system must be installed or an open crankcase filtration emission control system that reduces emissions from the crankcase must be installed. The source must operate and maintain the crankcase ventilation system and replace the crankcase filters according to the manufacturer's specified requirements. The source can request from the permitting authority to approve a different maintenance requirement.*
- *During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.*
- *Sources have compliance and continuous monitoring options to demonstrate compliance with the CO emission limits.
 
  - *If they use an oxidation catalyst or non-selective catalytic reduction (NSCR) to reduce CO, they can utilize a continuous parameter monitoring system (CPMS). They must continuously monitor catalyst inlet temperature and record the catalyst pressure drop monthly. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually.*
  - *If they do not use an oxidation catalyst or NSCR to reduce CO, they must install a CPMS and monitor parameters as specified in the site specific monitoring plan. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually.*
  - *If they use a continuous emissions monitor (CEMS), they must continuously monitor CO and oxygen or carbon dioxide at the inlet and outlet of the oxidation catalyst. They must also conduct an annual relative accuracy test audit of the CEMS.**
- *If they are using an oxidation catalyst:
 
  - *The must maintain the catalyst so the pressure drop doesn't change by more than 2 inches of water at 100 percent load plus or minus 10% from the pressure drop measured during the performance test and*
  - *Maintain the temperature of the engine exhaust so catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F.**
- *If they are not using an oxidation catalyst:
 
  - *The must comply with any operating limitations approved by the EPA.**
- *The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.*

### **Notifications**

63.6645 (a)(3); (g); and (h)(2)

- *An initial notification must be submitted by August 31, 2010.*
- *A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.*
- *A Notification of Compliance Status must be submitted within 60 days of the test.*

### **Reports**

63.6650 (a); (b)(1) – (5); (c); (d); (e); and (f) = not limited use engine

## Major Source Requirements

|   |   |
|---|---|
|   | 63.6650 (a); (b)(6) – (9); (c); (d); (e); and (f) = <u>limited</u> use engine |
|   | Table 7 (#1) and (i) = not limited use engine                                 |
| <ul style="list-style-type: none"> <li>• A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</li> <li>• Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:             <ul style="list-style-type: none"> <li>○ The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</li> <li>○ Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</li> <li>○ If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</li> </ul> </li> <li>• If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</li> <li>• If the engine is defined as “limited use” in accordance with the rule, an annual report is required instead of semiannual.             <ul style="list-style-type: none"> <li>○ Annual reports are due January 31 for the period between January 1 through December 31.</li> </ul> </li> </ul> | Table 7 (#1) and (ii) = <u>limited</u> use engine                             |
| <b>Records</b>  | 63.6655 (a); (b); and (d).  |
| <ul style="list-style-type: none"> <li>• The source must keep records of all notifications and reports submitted.</li> <li>• This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</li> <li>• They must keep records of performance tests and maintenance performed.</li> <li>• They must keep all CPMS or CEMS records and all records required to demonstrate continuous compliance with the emissions limit.</li> <li>• Records must be in a form suitable, readily available for expeditious review, and kept for five years.</li> </ul>  | 63.6660   |

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## Major Source Requirements

### Existing and New/Reconstructed Spark Ignition Non-emergency 4SRB > 500 HP

| REQUIREMENTS   | CITATION  |
|--|---|
| <p><b>Applicability</b></p>  | 63.6580 = Purpose   |
|  | 63.6585 (a) and (b) = Who is Subject  |
|  | 63.6590 (a)(1)(i) and (iv); (2)(i); or (3)(i) = What is Covered   |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are an existing or new or reconstructed source depending on if they commenced construction or reconstruction before or on or after 12/19/02. A change in ownership doesn't make an existing engine a new engine.</i></li> </ul>  |   |
| <p><b>General Requirements and Provisions</b></p>  | 63.6605 = General Compliance  |
|  | 63.6665 = General Provisions  |
|  | 63.6670 = Implementation & Enforcement  |
|  | 63.6675 = Definitions   |
|  | Table 8 = General Provisions  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State's the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |
| <p><b>Compliance</b></p>   | 63.6595 (a)(1); (2); or (3) and (c) = Compliance Date   |
|  | 63.6600 (a) = Operating Limitations   |
|  | 63.6610 = Initial Performance Test  |
|  | 63.6615 = Subsequent Tests  |
|  | 63.6620 = Performance Test Procedures   |
|  | 63.6625 (b); and (h) = Monitoring/Operation/Maintenance   |
|  | 63.6630 = Initial Compliance  |
|  | 63.6635 = Continuous Monitoring   |
|  | 63.6640 (a); (b); (d); and (e) = Continuous Compliance<br>Tables 1a; 1b; 3 (#2 or #3); 4 (#2 or #3); 5 (#7, #8, #10, or #11); 6 (#4, #5, #6, #7, or #8)= Requirements |
| <ul style="list-style-type: none"> <li>• <i>Existing sources must be in compliance by 6/15/07. New/Reconstructed sources that started up before 8/16/04 must comply by 8/16/04. Those that startup after 8/16/04, must comply upon startup. They must comply with all notification requirements of this subpart and of Subpart A – General Provisions. Except that compliance with the continuous parameter monitoring provisions in 63.6625(b) and Table 5 is required by September 6, 2011.</i></li> <li>• <i>The engine must meet the following emission limits:</i> <ul style="list-style-type: none"> <li>○ <i>Reduce formaldehyde emissions by 76% or more. If they commenced</i></li> </ul> </li> </ul> |   |

## Major Source Requirements

- construction or reconstruction between 12/19/02 and 6/15/04, they may reduce formaldehyde emissions by 75% or more until 6/15/07 or*
  - *Limit the concentration of formaldehyde in the engine exhaust to 350 ppbvd at 15% oxygen.*
- *The source must perform an initial performance test within 180 days after the compliance date. Performance tests must be conducted according to the procedures in 63.6620.*
  - *If they commenced construction or reconstruction between 12/19/02 and 6/15/04, they must demonstrate compliance with the proposed emission limits or promulgated emission limits by 2/10/05 or within 180 days of startup.*
  - *If the sources above choose to comply with the proposed emission limits, they must conduct a second performance test to demonstrate compliance with the promulgated emission limits by 12/13/07 or after startup.*
  - *An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart; 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they must be able to demonstrate the results of the test despite changes are still valid.*
- *If they are reducing formaldehyde emissions by percent reduction using an non-selective catalytic reduction (NSCR);*
  - *The must maintain the catalyst so the pressure drop doesn't change by more than 2 inches of water at 100 percent load plus or minus 10% from the pressure drop measured during the performance test and*
  - *Maintain the temperature of the engine exhaust so catalyst inlet temperature is greater than or equal to 750°F and less than or equal to 1250°F.*
- *If they are reducing formaldehyde emissions by percent reduction and are not using an NSCR:*
  - *The must comply with any operating limitations approved by the EPA.*
- *During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.*
- *Sources have compliance and continuous monitoring options to demonstrate compliance with the formaldehyde emission limits.*
  - *If they use an (NSCR) to reduce formaldehyde, they can utilize a continuous parameter monitoring system (CPMS). They must continuously monitor catalyst inlet temperature and record the catalyst pressure drop monthly. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually...*
  - *If they do not use an NSCR to reduce formaldehyde, they must install a CPMS and monitor parameters as specified in the site specific monitoring plan. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually...*
- *Subsequent emission tests:*
  - *They must conduct subsequent emission tests semiannually.*
  - *If they demonstrate compliance for two consecutive tests, they may reduce the frequency to annually. If results indicate noncompliance or they deviate*

## Major Source Requirements

|  |  |
|--|--|
| <p><i>from the operating limitations, they must resume semiannual performance tests.</i></p> <ul style="list-style-type: none"> <li><i>Deviations from the emission limitations that occur during the first 200 hours of operation from engine startup are not violations (new/reconstructed sources).</i></li> <li><i>The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.</i></li> </ul>  |  |
| <b>Notifications</b>   | 63.6645 (a)(3); (b); (c); (g); and (h)(2)                                  |
| <ul style="list-style-type: none"> <li><i>An initial notification was required to be submitted by December 13, 2004 for sources that began operation before 8/16/04. An initial notification is due 120 days after startup if you startup operation after 8/16/04.</i></li> <li><i>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</i></li> <li><i>A Notification of Compliance Status must be submitted within 60 days of the performance test.</i></li> </ul>  |  |
| <b>Reports</b>   | 63.6650 (a); (b)(1) – (5); (c); (d); (e); and (f) = not limited use engine |
|  | 63.6650 (a); (b)(6) – (9); (c); (d); (e); and (f) = limited use engine     |
|  | Table 7 (#1) and (i) = not limited use engine                              |
|  | Table 7 (#1) and (ii) = limited use engine                                 |
| <ul style="list-style-type: none"> <li><i>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</i></li> <li><i>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:</i> <ul style="list-style-type: none"> <li><i>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</i></li> <li><i>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</i></li> <li><i>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</i></li> </ul> </li> <li><i>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</i></li> <li><i>If the engine is defined as “limited use” in accordance with the rule, an annual report is required instead of semiannual.</i> <ul style="list-style-type: none"> <li><i>Annual reports are due January 31 for the period of January 1 through December 31.</i></li> </ul> </li> </ul> |  |

## Major Source Requirements

| Records  | 63.6655 (a); (b); and (d) |
|--|---------------------------|
|  | 63.6660                   |
| <ul style="list-style-type: none"><li>• <i>The source must keep records of all notifications and reports submitted.</i></li><li>• <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li><li>• <i>They must keep records of performance tests, maintenance performed.</i></li><li>• <i>They must keep all CPMS records and all records required to demonstrate continuous compliance with the emissions limit.</i></li><li>• <i>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li></ul> |                           |

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## Major Source Requirements

### New/Reconstructed Engine Emergency and Limited Use > 500 HP

| REQUIREMENTS  | CITATION  |
|---|---|
| <p style="text-align: center;"><b>Applicability</b></p>   | 63.6580 = Purpose   |
|   | 63.6585 (a) and (b) = Who is Subject                      |
|   | 63.6590 (a)(2)(i) and (3)(i) and (b)(1) = What is Covered |
| <ul style="list-style-type: none"> <li>· <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>· <i>They are a new or reconstructed source (commenced construction or reconstruction on or after 12/19/02).</i></li> <li>· <i>They do not have to comply with any requirements of this subpart or subpart A except the initial notification requirements. This is also reiterated in 63.6600(c) and 63.6640(e).</i></li> </ul> |   |
| <b>Notifications</b>  | 63.6645 (a)(3); (b); (c); and (f).                        |
| <ul style="list-style-type: none"> <li>· <i>An initial notification was required to be submitted by December 13, 2004 for sources that began operation before 8/16/04. An initial notification is due 120 days after startup if you startup operation after 8/16/04.</i></li> <li>· <i>They must include in the notification a statement that no other requirements apply and explain why (i.e. they are a new, emergency engine &gt; 500 HP at a major source).</i></li> </ul>   |   |

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## Major Source Requirements

**New/Reconstructed Engine  
Non-emergency  
Compression Ignition > 500 HP  
Spark Ignition 4SLB > 500 HP  
Spark Ignition 2SLB > 500 HP**

| REQUIREMENTS   | CITATION  |
|--|---|
| <b>Applicability</b>   | 63.6580 = Purpose   |
|  | 63.6585 (a) and (b) = Who is Subject  |
|  | 63.6590 (a)(2)(i); or (3)(i) = What is Covered  |
| <ul style="list-style-type: none"> <li>• <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>• <i>They are a new or reconstructed source (commenced construction or reconstruction on or after 12/19/02).</i></li> </ul>  |   |
| <b>General Requirements and Provisions</b>   | 63.6605 = General Compliance  |
|  | 63.6665 = General Provisions  |
|  | 63.6670 = Implementation & Enforcement  |
|  | 63.6675 = Definitions   |
|  | Table 8 = General Provisions  |
| <ul style="list-style-type: none"> <li>• <i>Sources must comply with limitations at all times. They must operate in a manner consistent with good air pollution control practices and have a general duty to minimize emissions at all times.</i></li> <li>• <i>Sources must comply with applicable requirements of Subpart A – General Provisions.</i></li> <li>• <i>EPA can delegate to the State’s the authority to enforce and implement the subpart requirements. EPA maintains authority over approval of specified compliance alternatives.</i></li> <li>• <i>The definitions apply to all sources subject.</i></li> </ul>  |   |
| <b>Compliance</b>  | 63.6595 (a)(2) or (3) and (c) = Compliance Date   |
|  | 63.6600 (b) = Operating Limitations   |
|  | 63.6610 = Initial Performance Test  |
|  | 63.6615 = Subsequent Tests  |
|  | 63.6620 = Performance Test Procedures   |
|  | 63.6625 (a); (b); and (h) =<br>Monitoring/Operation/Maintenance   |
|  | 63.6630 = Initial Compliance  |
|  | 63.6635 = Continuous Monitoring   |
|  | 63.6640 (a); (b); (d); and (e) = Continuous<br>Compliance   |
|  | Tables 2a; 2b; 3 (#1 or #3); 4 (#1-3); 5 (#1, #2,<br>#3, #4, #5, #6, #10, or #11); 6 (#1, #2, #3, #7, or<br>#8)= Requirements |
| <ul style="list-style-type: none"> <li>• <i>New/Reconstructed sources that started up before 8/16/04 must comply by 8/16/04. Those that startup after 8/16/04, must comply upon startup. They must comply with all notification requirements of this subpart and of Subpart A – General Provisions. Except that compliance with the continuous parameter monitoring provisions in 63.6625(b) and Table 5 is required by September 6, 2011.</i></li> <li>• <i>The engine must meet the following emission limits:</i> <ul style="list-style-type: none"> <li>○ <i>2SLB = Reduce carbon monoxide (CO) by 58% or more or limit the concentration of formaldehyde in the exhaust to 12 ppmvd or less at 15%</i></li> </ul> </li> </ul> |   |

## Major Source Requirements

- oxygen. If they commenced construction between 12/19/02 and 6/15/04, they may limit formaldehyde to 17 ppmvd or less at 15% oxygen until 6/15/07.*

  - o 4SLB = Reduce CO by 93% or more or limit the concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% oxygen.*
  - o Compression Ignition = Reduce CO by 70% or more or limit the concentration of formaldehyde in the exhaust to 580 ppbvd or less at 15% oxygen.*
- The source must perform an initial performance test within 180 days after the compliance date. Performance tests must be conducted according to the procedures in 63.6620.*

  - o If they commenced construction or reconstruction between 12/19/02 and 6/15/04, they must demonstrate compliance with the proposed emission limits or promulgated emission limits by 2/10/05 or within 180 days of startup.*
  - o If the sources above choose to comply with the proposed emission limits, they must conduct a second performance test to demonstrate compliance with the promulgated emission limits by 12/13/07 or after startup.*
  - o An initial test may not be required if a performance test has already been conducted on the engine if the following conditions are met: 1) Test conducted according to the same methods in this subpart and performed correctly; 2) Test conducted no earlier than two years prior to the effective date of the subpart; 3) Test is reviewed and accepted by the EPA; and 4) No process or equipment changes have been made or they must be able to demonstrate the results of the test despite changes are still valid.*
- If they are reducing CO or formaldehyde emissions using an oxidation catalyst:*

  - o The must maintain the catalyst so the pressure drop doesn't change by more than 2 inches of water at 100 percent load plus or minus 10% from the pressure drop measured during the performance test and*
  - o Maintain the temperature of the engine exhaust so catalyst inlet temperature is greater than or equal to 450°F and less than or equal to 1350°F.*
- If they are reducing CO or formaldehyde emissions and are not using an oxidation catalyst:*

  - o The must comply with any operating limitations approved by the EPA.*
- During periods of startup, the source must minimize the engine idle at startup time not to exceed 30 minutes.*
- Sources have compliance and continuous monitoring options to demonstrate compliance with the CO or formaldehyde emission limits.*

  - o If they use an oxidation catalyst, they can utilize a continuous parameter monitoring system (CPMS). They must continuously monitor catalyst inlet temperature and record the catalyst pressure drop monthly. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually...*
  - o If they do not use an oxidation catalyst, they must install a CPMS and monitor parameters as specified in the site specific monitoring plan. They must develop and operate the CPMS in accordance with a site-specific monitoring plan in accordance with 63.6625(b). They must conduct equipment performance evaluations, system accuracy audits, or other procedures in accordance with the monitoring plan at least annually...*
  - o If they use a continuous emissions monitor (CEMS), they must continuously*

## Major Source Requirements

|   |  |
|---|--|
| <p><i>monitor CO and oxygen or carbon dioxide at the inlet and outlet of the oxidation catalyst. They must also conduct an annual relative accuracy test audit of the CEMS.</i></p> <ul style="list-style-type: none"> <li>• <i>Subsequent emission tests:</i> <ul style="list-style-type: none"> <li>○ <i>They must conduct subsequent emission tests semiannually if they are reducing CO emissions and not using a CEMS or reducing formaldehyde in the exhaust.</i></li> <li>○ <i>If they demonstrate compliance for two consecutive tests, they may reduce the frequency to annually. If results indicate noncompliance or they deviate from the operating limitations, they must resume semiannual performance tests.</i></li> </ul> </li> <li>• <i>Deviations from the emission limitations that occur during the first 200 hours of operation from engine startup are not violations.</i></li> <li>• <i>The source must report deviations of emission limitations and each instance conditions in Table 8 (General Provisions) are not met.</i></li> </ul>  |  |
| <b>Notifications</b>  | 63.6645 (a)(3); (b); (c); (g); and (h)(2)                                  |
| <ul style="list-style-type: none"> <li>• <i>An initial notification must be submitted by December 13, 2004 for sources that began operation before 8/16/04. An initial notification is due 120 days after startup if you startup operation after 8/16/04.</i></li> <li>• <i>A Notice of Intent to conduct a performance test must be submitted 60 days prior to the performance test.</i></li> <li>• <i>A Notification of Compliance Status must be submitted within 60 days of the performance test.</i></li> </ul>  |  |
| <b>Reports</b>  | 63.6650 (a); (b)(1) – (5); (c); (d); (e); and (f) = not limited use engine |
|   | 63.6650 (a); (b)(6) – (9); (c); (d); (e); and (f) = limited use engine     |
|   | Table 7 (#1) and (i) = not limited use engine                              |
|   | Table 7 (#1) and (ii) = limited use engine                                 |
| <ul style="list-style-type: none"> <li>• <i>A semiannual compliance report must be submitted detailing malfunctions, deviations, and corrective actions. If no deviations occurred, include a statement in the report that there were no deviations.</i></li> <li>• <i>Unless the permitting authority has approved an alternate schedule, compliance reports must be submitted according to the following schedule:</i> <ul style="list-style-type: none"> <li>○ <i>The first compliance report must cover the period beginning on the compliance date and ending on June 30 or December 31, whichever is the first date following the compliance date.</i></li> <li>○ <i>Each subsequent compliance report must cover January 1 through June 30 and July 1 through December 31. The reports must be postmarked no later than the 30th day following the end of each six month period.</i></li> <li>○ <i>If the source has obtained a Title V (Class I) operating permit requiring semiannual deviations reports be submitted on an alternate schedule (i.e. March 31 and September 30); the source can submit the semiannual compliance report in accordance with that schedule instead of the schedule outlined by the rule.</i></li> </ul> </li> <li>• <i>If the source has obtained a Title V (Class I) operating permit, they are required to report all deviations as defined in this rule in their semiannual monitoring report. If the source submits a report pursuant to Table 7 along with, or as part of, the semiannual monitoring report required by their operating permit and it includes all required information, it will satisfy both requirements.</i></li> <li>• <i>If the engine is defined as “limited use” in accordance with the rule, an annual report is</i></li> </ul> |  |

## Major Source Requirements

|  |                           |
|--|---------------------------|
| <i>required instead of semiannual.</i>   |                           |
| <ul style="list-style-type: none"> <li>○ <i>Annual reports are due January 31 for the period of January 1 through December 31.</i></li> </ul>  |                           |
| <b>Records</b>   | 63.6655 (a); (b); and (d) |
|  | 63.6660                   |
| <ul style="list-style-type: none"> <li>· <i>The source must keep records of all notifications and reports submitted.</i></li> <li>· <i>This source must keep records of the occurrence and duration of each malfunction of operation (or air pollution control or monitoring, if applicable). Records of actions taken during periods of malfunction to minimize emissions must be kept including corrective action taken.</i></li> <li>· <i>They must keep records of performance tests, maintenance performed.</i></li> <li>· <i>They must keep all CPMS or CEMS records and all records required to demonstrate continuous compliance with the emissions limit.</i></li> <li>· <i>Records must be in a form suitable, readily available for expeditious review, and kept for five years.</i></li> </ul> |                           |

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## Major Source Requirements

### New/Reconstructed Spark Ignition Engine Landfill or Digester Gas > 500 HP

| REQUIREMENTS   | CITATION  |
|--|---|
| <b>Applicability</b>   | 63.6580 = Purpose   |
|  | 63.6585 (a) and (b) = Who is Subject                      |
|  | 63.6590 (a)(2)(i) and (3)(i) and (b)(2) = What is Covered |
| <ul style="list-style-type: none"> <li>· <i>This source is a stationary reciprocating internal combustion engine (RICE) and a major source of hazardous air pollutant (HAP).</i></li> <li>· <i>They are a new or reconstructed source (commenced construction or reconstruction on or after 12/19/02).</i></li> <li>· <i>They have to comply with limited requirements of this subpart. This is also reiterated in 63.6600(c) and 63.6640(e).</i> <ul style="list-style-type: none"> <li>○ <i>Initial notification, monitoring, reporting, and recordkeeping.</i></li> </ul> </li> </ul> |   |
| <b>Compliance</b>  | 63.6625 (c)   |
| <ul style="list-style-type: none"> <li>· <i>They must monitor and record fuel usage daily with separate fuel meters to measure volumetric flow rate of each fuel.</i></li> <li>· <i>They must operate in a manner which minimizes HAP emissions</i></li> </ul>   |   |
| <b>Notifications</b>   | 63.6645 (a)(3); (b); (c); and (f)                         |
| <ul style="list-style-type: none"> <li>· <i>An initial notification must be submitted by December 13, 2004 for sources that began operation before 8/16/04. An initial notification is due 120 days after startup if you startup operation after 8/16/04.</i></li> </ul>   |   |
| <b>Reports</b>   | 63.6650 (a); (b) (6-9); and (g)                           |
|  | Table 7 (#2)  |
| <ul style="list-style-type: none"> <li>· <i>They must submit an annual report with fuel flow rate of each fuel, heating values used in calculations, percentage of heat input provided by landfill or digester gas, operating limits provided in your federally enforceable permit, and deviations from the limits.</i></li> <li>· <i>Annual reports are due January 31 for the period of January 1 through December 31, unless the permitting authority has established an alternate schedule.</i></li> </ul>   |   |
| <b>Records</b>   | 63.6655(c)  |
| <ul style="list-style-type: none"> <li>· <i>They must keep daily records of fuel usage.</i></li> </ul>   |   |

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