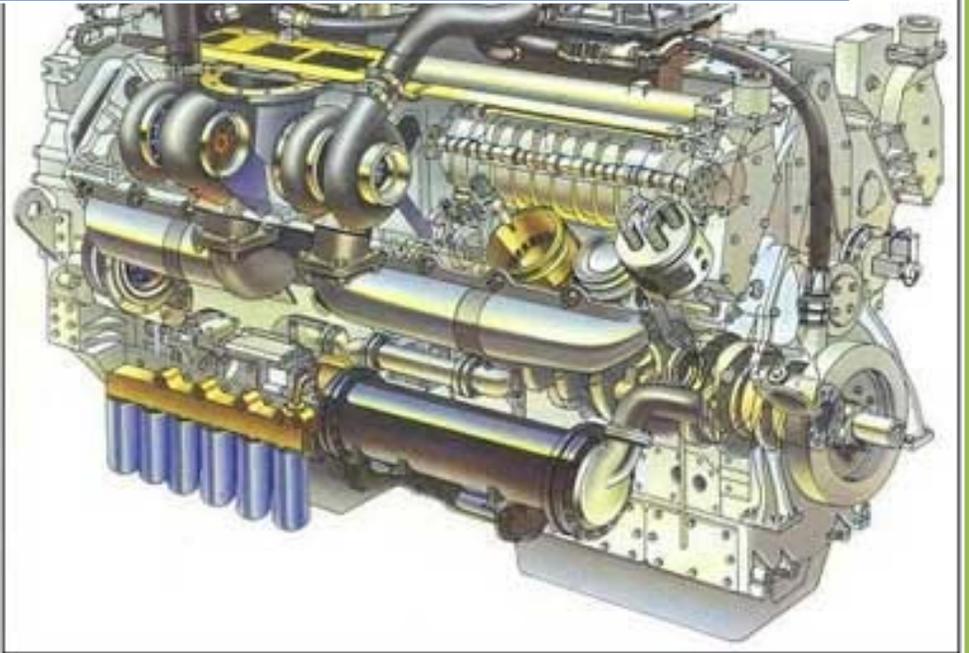


2010

Summary of RICE NESHAP Rule



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Ohio EPA, Division of Air Pollution
Control

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Disclaimer

The Ohio EPA, Division of Air Pollution Control has developed this guidance in order to provide assistance to the regulated community concerning the applicability of U.S. EPA's stationary reciprocating internal combustion engine (RICE) standards. Every effort has been made to ensure the accuracy and completeness of this guidance. However, due to the complex nature of the RICE standards, no guarantee is given concerning the accuracy and completeness of this guidance.

This guidance is intended for informational purposes. It cannot be relied upon to create any rights enforceable by any party in litigation with the United States or Ohio EPA. This guidance is not a final action, and it does not constitute rule making. U.S. EPA and/or Ohio EPA officials may decide to follow the guidance provided herein, or they may act at variance with the guidance, based on site-specific circumstances. The guidance may be reviewed and/or changed at any time without public notice. Before relying on the use of this guidance, parties should review the RICE standards and verify that they are following the standards. If any conflict between the RICE standards are followed and this guidance is found, it is recommended that the RICE standards are followed and not this guidance.

Comments and Suggestions

Any comments and suggestions concerning this guidance should be sent to:

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Introduction:

The Ohio EPA, Division of Air Pollution Control has developed this document in order to provide technical assistance concerning the use of U.S. EPA's stationary reciprocating internal combustion engine (RICE) regulations. These regulations are a part of the Maximum Achievable Control Technology (MACT) standards authorized by the 1990 Clean Air Act. The RICE regulations can be found at 40 CFR 63, subpart ZZZZ.

Under these regulations, a RICE is any engine which uses reciprocating motion to convert heat energy into mechanical work and is not mobile. There are two types of RICE: compression ignition (CI) engines and spark ignition (SI) engines. Compression ignition engines use the heat of compression to initiate ignition to burn the fuel. Spark ignition engines are engines where the initiation of the combustion process of the air-fuel mixture is ignited within the combustion chamber by a spark from a spark plug.

U.S. EPA has issued multiple regulations that cover different types of RICEs. U.S. EPA promulgated the NESHAP for existing, new, and reconstructed stationary RICE greater than 500 horsepower (HP) located at major sources on June 15, 2004 (69 FR 33474). U.S. EPA promulgated the NESHAP for new and reconstructed stationary RICE that are located at area sources of HAP emissions and for new and reconstructed stationary RICE that have a site rating of less than or equal to 500 HP that are located at major sources of HAP emissions on January 18, 2008 (73 FR 3568). On March 3, 2010, U.S. EPA promulgated the NESHAP for existing stationary compression ignition (CI) RICE with a site rating of less than or equal to 500 HP located at major sources, existing non-emergency CI engines with a site rating greater than 500 HP at major sources, and existing stationary CI RICE of any site rating located at area sources (75 FR 9674). On August 20, 2010, U.S. EPA promulgated the NESHAP for stationary spark ignition (SI) RICE that are located at area sources of HAP or have a site rating of less than or equal to 500 brake HP and are located at major sources of HAP (75 FR 51570).

Emission data collected during development of these NESHAPs show that several HAPs are emitted from stationary RICE. These HAP emissions are formed during combustion or result from HAP compounds contained in the fuel burned. The HAP which have been measured in emission tests conducted on natural gas fired and distillate oil fired RICE include: 1,1,2,2 tetrachloroethane, 1,3-butadiene, 2,2,4-trimethylpentane, acetaldehyde, acrolein, benzene, chlorobenzene, chloroethane, ethylbenzene, formaldehyde, methanol, methylene chloride, n-hexane, naphthalene, polycyclic aromatic hydrocarbons, polycyclic organic matter, styrene, tetrachloroethane, toluene, and xylene. Metallic HAP from distillate oil fired stationary RICE that have been measured are: cadmium, chromium, lead, manganese, mercury, nickel, and selenium. Although numerous HAPs may be emitted from RICE, only a few account for essentially all of the mass of HAP emissions from stationary RICE. These HAPs are formaldehyde, acrolein, methanol, and acetaldehyde.

Note: This rule summary will only cover the national emission standards for hazardous air pollutants (NESHAP). New source performance standards (NSPS) are not included at this time. Certain engines covered under 40 CFR part 63 subpart ZZZZ may also have requirements under 40 CFR part 60 subpart IIII and JJJJ. For more information on the sequencing of these rules see Figure 1.

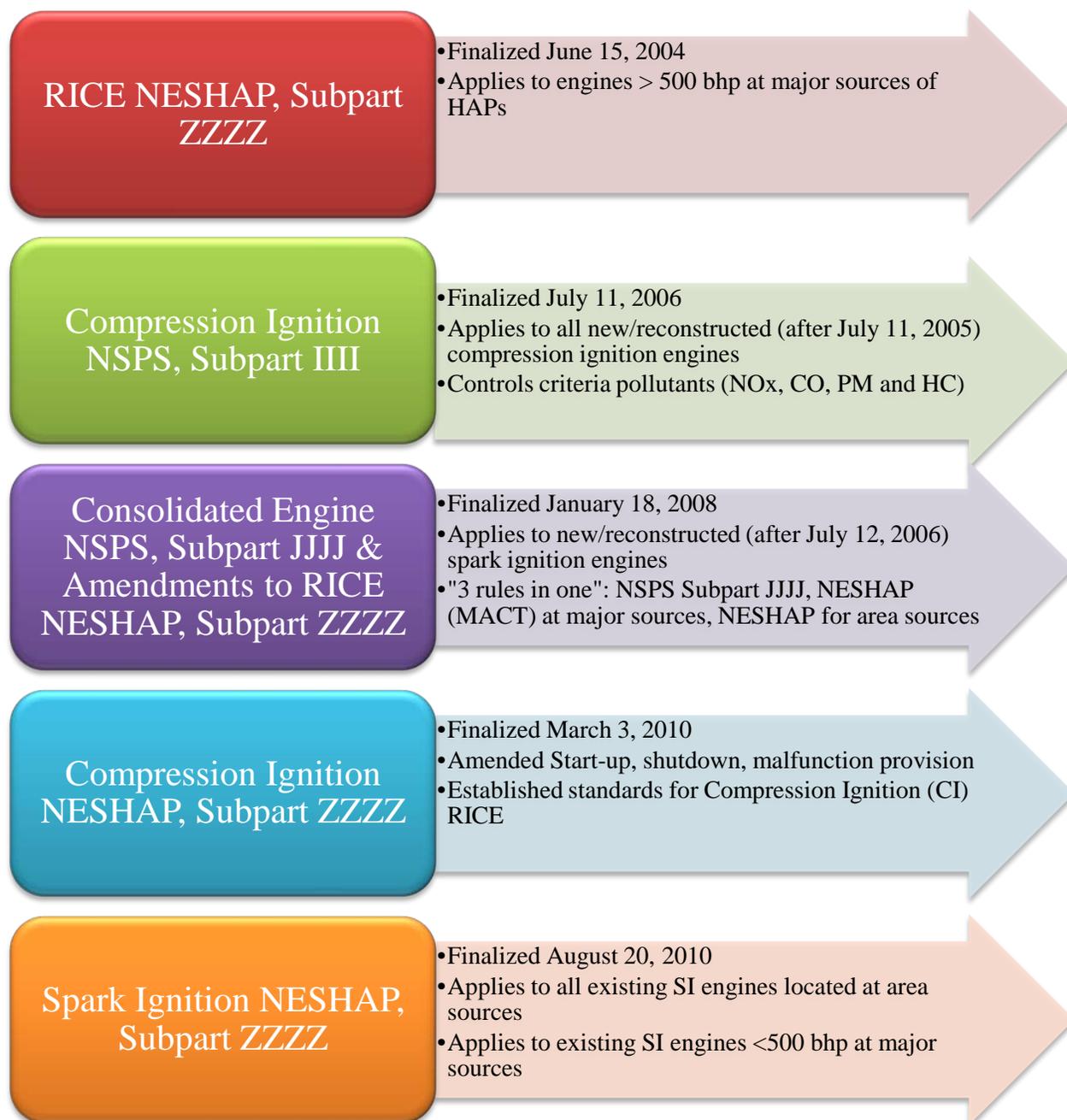


Figure 1. Diagram explaining the various promulgations and applicability for the RICE NESHAP, NSPS subpart IIII, and NSPS subpart JJJJ

40 CFR Part 63 Subpart ZZZZ-National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAPs) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions.

A stationary RICE is considered to be any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile.

These rules do not independently require owner or operators to obtain a permit. However, in many cases, Ohio EPA rules will require a permit. Please consult with Ohio EPA representatives prior to installing one of these engines in order to determine any permit requirements.

Acronyms:

HAP: hazardous air pollutant

bhp: brake horsepower*

RICE: reciprocating internal combustion engine

CI: Compression ignition

SI: Spark ignition

SLB: Stroke lean burn

SRB: Stroke rich burn

*for this rule, bph and horsepower are synonyms

Categories covered by the rule:

1. Existing stationary SI RICE that are located at area sources of HAPs.
2. Existing stationary SI RICE that have a site rating of less than or equal to 500 bhp located at major sources of HAPs.
3. Stationary RICE with a site rating of more than 500 bhp.
4. New and reconstructed stationary RICE which are located at area sources of HAPs.
5. New and reconstructed stationary RICE that have a site rating of less than or equal to 500 bhp and are located at major sources of HAPs.
6. Existing stationary CI RICE which are located at area sources of HAPs.
7. Existing stationary CI RICE that have a site rating of less than or equal to 500 bhp and are located at major sources of HAPs.
8. Existing non-emergency stationary CI RICE greater than 500 bhp that are located at major sources of HAPs.

Sources exempt from this rule (§63.6590):

- Existing spark ignition 2 stroke lean burn (2SLB) and spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of more than 500 bhp located at a major source of HAPs.
- Existing **emergency** stationary RICE with a site rating of more than 500 bhp located at a major source of HAPs.
- Existing **limited use** stationary RICE with a site rating of more than 500 bhp located at a major source of HAPs.
- Existing stationary RICE with a site rating of more than 500 bhp located at a major source of HAPs that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis
- Existing residential, commercial, and institutional emergency stationary RICE located at an area source of HAPs (as defined in the rule).

Effective Dates:

October 19, 2010 for existing stationary SI RICE that are located at area sources of HAPs and existing stationary SI RICE that have a site rating of less than or equal to 500 bhp located at major sources of HAPs.

1. Existing Stationary SI RICE less than or equal to 500 bhp at major sources of HAPs.

Categories:

- Non-emergency 2-stroke lean burn (2SLB) stationary SI RICE 100-500 bhp
 - Non-emergency 4-stroke lean (4SLB) stationary SI RICE 100-500 bhp
 - Non-emergency 4-stroke rich burn (4SRB) stationary RICE 100-500 bhp
 - Non-emergency landfill and digester gas stationary SI RICE 100-500 bhp
 - Non-emergency stationary SI RICE <100 bhp
 - Emergency stationary SI RICE
2. Existing stationary SI RICE at area sources of HAPs
 - Categories
 - Non-emergency 2SLB stationary SI RICE
 - Non-emergency landfill and digester gas stationary SI RICE
 - Emergency stationary SI RICE
 - Non-emergency 4SLB stationary SI RICE
 - Less than or equal to 500 bhp
 - Greater than 500 bhp that operate more than 24 hours per calendar year
 - Greater than 500 bhp that operate less than 24 hours per calendar year
 - Non-emergency 4SRB stationary RICE

- Less than or equal to 500 bhp that operate more than 24 hours per calendar year
- Greater than 500 bhp that operate 24 hours or less per calendar year

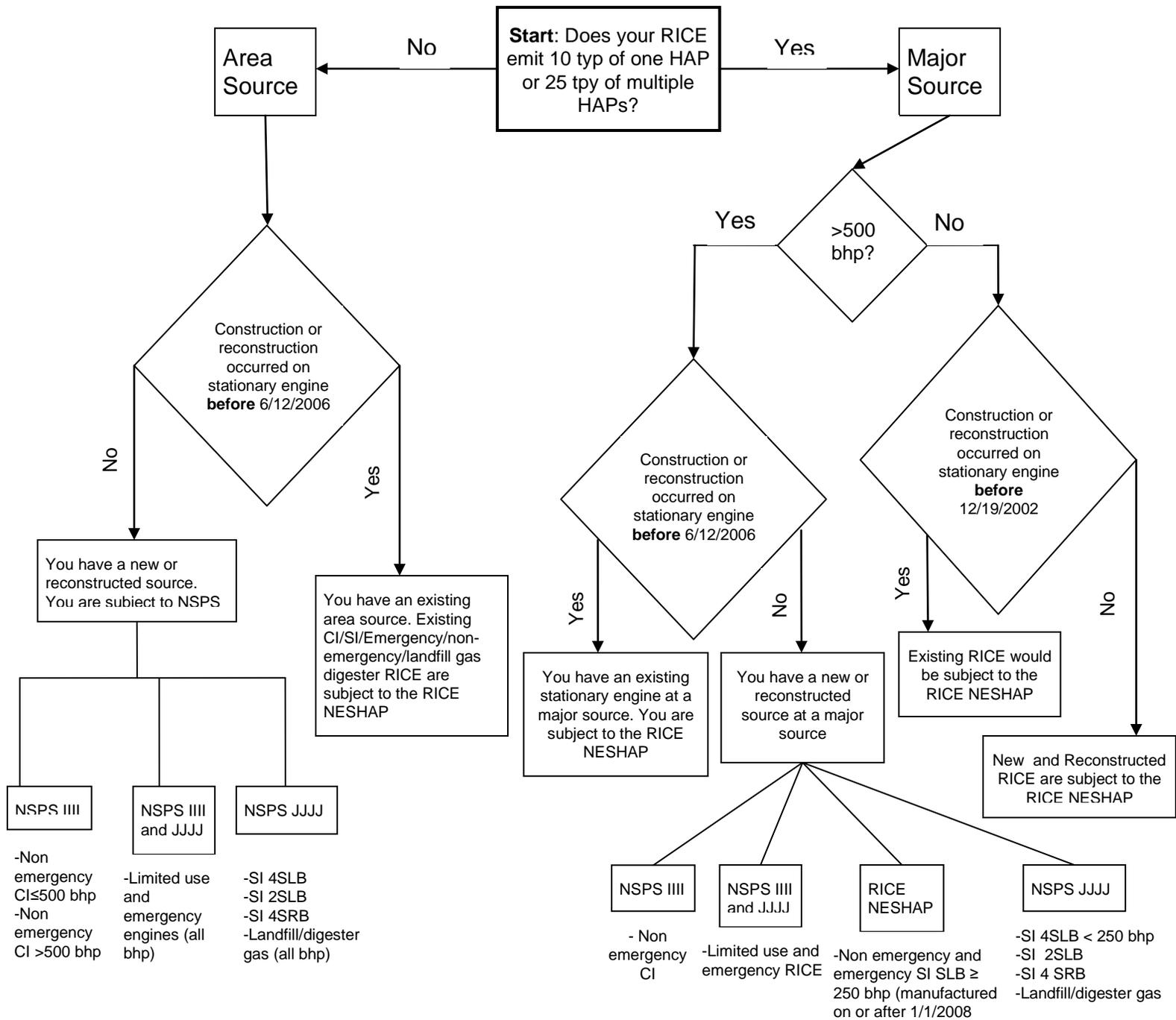
May 3, 2010 for existing stationary CI RICE that either are located at area sources of hazardous air pollutant emissions, existing stationary CI RICE site rating of less than or equal to 500 bhp and are located at major sources of HAPs, and existing non-emergency stationary CI RICE greater than 500 bhp that are located at major sources of HAPs

1. Non-emergency engines greater than 300 bhp located at major and area sources
2. Non-emergency engines between 100 and 300 bhp located at major sources
3. Engines that are...
 - Less than 100 bhp at major sources
 - Non-emergency engines less than 300 bhp that are at area sources
 - All emergency engines located at major and area sources

March 18, 2008 for new and reconstructed stationary RICE that either are located at area sources of HAPs or that have a site rating of less than or equal to 500 bhp and are located at major sources of HAPs

August 16, 2004 for stationary RICE with a site rating of more than 500 bhp

Please refer to Figure 1 for further detail regarding applicability.



Start-up Requirements:

Engine start-up definition (§63.6675): Time from initial start until applied load and engine and associated equipment reaches steady state or normal operation.

Start-up, Shutdown, Malfunction:

In 2008, the United States Court of Appeals vacated the Start-up, Shutdown, Malfunction provision in section 112 of the CAA. Since the vacatur of this provision, 40 CFR 63 subpart ZZZZ, was amended to accommodate this vacatur. Affected sources are now required to comply with emission standards during periods of shutdown and malfunction. Also, an operating time of 30 minutes or less has been set for periods of start-up. Owners and operators must minimize the engine's time spent at idle and minimize the engine's startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the engine must meet the otherwise applicable emission standards.

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

Table 1. Compliance dates for RICE NESHP.

RICE category	Compliance Date
Existing stationary RICE with a site rating of more than 500 bhp located at major source	June 15, 2007
<ul style="list-style-type: none"> • Existing non-emergency CI stationary RICE with a site rating of more than 500 bhp located at a major source • Existing stationary CI RICE with a site rating of less than or equal to 500 bhp located at major sources • Existing stationary CI RICE located at an area sources 	May 13, 2013
<ul style="list-style-type: none"> • Existing stationary SI RICE with a site rating of less than or equal to 500 bhp located at a major source • Existing stationary SI RICE located at an area source 	October 19, 2013
Start up new or reconstructed stationary RICE with a site rating of more than 500 bhp located at a major source before August 16, 2004	August 16, 2004
Start up new or reconstructed stationary RICE with a site rating of more than 500 bhp located at a major source after August 16, 2004	Upon start up
Start up new or reconstructed stationary RICE with a site rating of less than or equal to 500 bhp located at a major source before January 18, 2008	January 18, 2008

Start up new or reconstructed stationary RICE with a site rating of less than or equal to 500 bhp located at a major source after January 18, 2008	Upon start up
Start up new or reconstructed stationary RICE located at an area source before January 18, 2008	January 18, 2008
Start up new or reconstructed stationary RICE located at an area source after January 18, 2008	Upon start up
Area sources that become major sources <ol style="list-style-type: none"> 1. Stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source 2. Stationary RICE for which construction or reconstruction is commenced before the date when your area source becomes a major source 	<ol style="list-style-type: none"> 1. Must be in compliance upon start up 2. Must be in compliance 3 years after your area source becomes a major source

Emission and Operating Limits (§63.6600, §63.6601, §63.6602, §63.6603, §63.6604)

The following emission and operating limits are required at all times, except during start-up periods.

Table 2. Emission Limitations for Existing, New, and Reconstructed Spark Ignition, 4SRB Stationary RICE >500 bhp Located at Major Sources, New and Reconstructed 2SLB and Compression Ignition Stationary RICE >500 bhp and New and Reconstructed 4SLB Stationary RICE ≥250 bhp Located at Major Sources

4SRB RICE (§63.6600(a) and Table 1a)	<p>a. Reduce formaldehyde emissions by 76 percent or more. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may reduce formaldehyde emissions by 75 percent or more until June 15, 2007</p> <p>or</p> <p>b. Limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percent O₂.</p>
2SLB Stationary RICE (§ 63.6600(b) and Table 2a)	<p>a. Reduce CO emissions by 58 percent or more or</p> <p>b. Limit concentration of formaldehyde in the stationary RICE exhaust to 12 ppmvd or less at 15 percent O₂.</p>

	-If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may limit concentration of formaldehyde to 17 ppmvd or less at 15 percent O ₂ until June 15, 2007.
4SLB Stationary RICE (§63.6600(b) and Table 2a)	a. Reduce CO emissions by 93 percent or more or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 14 ppmvd or less at 15 percent O ₂ .
CI Stationary RICE (§63.6600(b) and Table 2a)	a. Reduce CO emissions by 70 percent or more or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 580 ppbvd or less at 15 percent O ₂ .

Table 3. Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE ≤500 bhp Located at a Major Sources

Emergency stationary CI RICE and black start stationary CI RICE. (§63.6602 and Table 2c)	a. Change oil and filter every 500 hours of operation or annually, whichever comes first * b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary
Non-Emergency, non-black start stationary CI RICE < 100 bhp. (§63.6602 and Table 2c)	a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first * b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary
Non-Emergency, non-black start CI stationary RICE 100 ≤bhp≤300 bhp. (§63.6602 and Table 2c)	Limit concentration of CO in the stationary RICE exhaust to 230 ppmvd or less at 15 percent O ₂ .
Non-Emergency, non-black start CI stationary RICE 300 <bhp≤ 500. (§63.6602 and Table 2c)	a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd or less at 15 percent O ₂ or b. Reduce CO emissions by 70 percent or more

Non-Emergency, non-black start stationary CI RICE >500 bhp. (§63.6602 and Table 2c)	<p>a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd or less at 15 percent O₂ or</p> <p>b. Reduce CO emissions by 70 percent or more</p>
Emergency stationary SI RICE and black start stationary SI RICE. (§63.6602 and Table 2c)	<p>a. Change oil and filter every 500 hours of operation or annually, whichever comes first *</p> <p>b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first</p> <p>c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary</p>
Non-Emergency, non-black start stationary SI RICE < 100 bhp that are not 2SLB stationary RICE. (§63.6602 and Table 2c)	<p>a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first *</p> <p>b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first</p> <p>c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.</p>
Non-Emergency, non-black start 2SLB stationary SI RICE < 100 bhp. (§63.6602 and Table 2c)	<p>a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first *</p> <p>b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first</p> <p>c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary</p>
Non-emergency, non-black start 2SLB stationary RICE 100 ≤bhp≤500. (§63.6602 and Table 2c)	Limit concentration of CO in the stationary RICE exhaust to 225 ppmvd or less at 15 percent O ₂ .
Non-emergency, non-black start 4SLB stationary RICE 100 ≤bhp≤500. (§63.6602 and Table 2c)	Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd or less at 15 percent O ₂ .
Non-emergency, non-black start 4SRB stationary RICE 100 ≤bhp≤500. (§63.6602 and Table 2c)	Limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent O ₂ .
Non-emergency, non-black start landfill or digester gas-fired stationary RICE 100 ≤bhp≤ 500. (§63.6602 and Table 2c)	Limit concentration of CO in the stationary RICE exhaust to 177 ppmvd or less at 15 percent O ₂ .

* Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change

Table 4. Requirements for Existing Stationary RICE located at Area Sources

Non-Emergency, non-black start CI stationary RICE \leq 300 bhp. (§63.6603 and Table 2d)	<ul style="list-style-type: none"> a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first * b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary
Non-Emergency, non-black start CI stationary RICE 300 <bhp \leq 500. (§63.6603 and Table 2d)	<ul style="list-style-type: none"> a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O₂ or b. Reduce CO emissions by 70 percent or more.
Non-Emergency, non-black start CI stationary RICE > 500 bhp. (§63.6603 and Table 2d)	<ul style="list-style-type: none"> a. Limit concentration of CO in the stationary RICE exhaust to 23 ppmvd at 15 percent O₂ or b. Reduce CO emissions by 70 percent or more
Emergency stationary CI RICE and black start stationary CI RICE. (§63.6603 and Table 2d)	<ul style="list-style-type: none"> a. Change oil and filter every 500 hours of operation or annually, whichever comes first * b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary
Emergency stationary SI RICE; black start stationary SI RICE; non-emergency, non-black start 4SLB stationary RICE > 500 bhp that operate 24 hours or less per calendar year; non-emergency, non-black start 4SRB stationary RICE > 500 bhp that operate 24 hours or less per calendar year. (§63.6603 and Table 2d)	<ul style="list-style-type: none"> a. Change oil and filter every 500 hours of operation or annually, whichever comes first * b. Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary
Non-emergency, non-black start 2SLB stationary RICE. (§63.6603 and Table 2d)	<ul style="list-style-type: none"> a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first * b. Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first

	c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary
Non-emergency, non-black start 4SLB stationary RICE \leq 500 bhp. (§63.6603 and Table 2d)	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first * b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary
Non-emergency, non-black start 4SLB stationary RICE > 500 bhp. (§63.6603 and Table 2d)	a. Limit concentration of CO in the stationary RICE exhaust to 47 ppmvd at 15 percent O ₂ or b. Reduce CO emissions by 93 percent or more
Non-emergency, non-black start 4SRB stationary RICE \leq 500 bhp. (§63.6603 and Table 2d)	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first * b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary
Non-emergency, non-black start 4SRB stationary RICE > 500 bhp. (§63.6603 and Table 2d)	a. Limit concentration of formaldehyde in the stationary RICE exhaust to 2.7 ppmvd at 15 percent O ₂ or b. Reduce formaldehyde emissions by 76 percent or more
Non-emergency, non-black start landfill or digester gas-fired stationary RICE. (§63.6603 and Table 2d)	a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first * b. Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary

* Sources have the option to utilize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change

When do I need to meet initial compliance requirements?

Category 1: Stationary RICE with a site rating of more than 500 bhp located at a major source of HAP.

Table 5. Initial compliance requirements for Category 1.

Stationary RICE with a site rating of >500 bhp located at a major source of HAP	180 days after the compliance date that is specified in §63.6595
Commence construction or reconstruction between December 19, 2002 and June 15, 2004	No later than February 10, 2005 or no later than 180 days after start up of the source
Commence construction or reconstruction between December 19, 2002 and June 15, 2004 and chose to comply with the proposed emission limitations when demonstrating initial compliance	You must conduct a second performance test by December 13, 2007 or after start up, whichever is later

Category 2: 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 bhp located at major sources

- ❖ Within 240 days after the compliance date specified in §63.6595

Category 3: Existing stationary RICE with a site rating of less than or equal to 500 bhp located at a major source or an existing stationary RICE located at an area source.

- ❖ Within 180 days after the compliance date specified in §63.6595

Continuous Compliance and Performance Testing:

Table 6. Continuous compliance requirement citations for applicable sources.

Category	Continuous Compliance Requirements (rule citations)	Performance Testing Requirements (rule citations)
Existing stationary engine ≤ 500 bhp located at area sources	§63.6605, §63.6640	No requirements except non-emergency CI 300<HP≤500 are required to follow §63.6612, §63.6620, Table 4, and Table 5
Existing stationary engine > 500 bhp located at area sources	§63.6605, §63.6640, and/or §63.6635 (applies to some)	Either no requirements or sources must follow §63.6612, §63.6615, §63.6620, Tables 3, 4, and 5
New and reconstructed stationary engines ≤ 500 bhp located at area sources	Subject to NSPS (40 CFR 60 subparts IIII and JJJJ)	Subject to NSPS (40 CFR 60 subparts IIII and JJJJ)

New and reconstructed stationary engines > 500 bhp located at area sources	Subject to NSPS (40 CFR 60 subparts IIII and JJJJ)	Subject to NSPS (40 CFR 60 subparts IIII and JJJJ)
Existing stationary engine ≤ 500 bhp located at major sources	§63.6605, §63.6640	Either no requirements or sources must follow §63.6612, §63.6620, Table 4, and Table 5
Existing stationary engine > 500 bhp located at major sources	Some sources are subject to §63.6605, §63.6635, and §63.6640	Either not applicable or sources are subject to §63.6610, §63.6615, §63.6620, Tables 3,4, and 5
New and reconstructed stationary engines ≤ 500 bhp located at major sources	Some sources are subject to NSPS (40 CFR 60 subparts IIII and JJJJ) Some sources are subject to §63.6605, §63.6635, and §63.6605	Not applicable, no requirements, or sources must follow §63.6611, §63.6615, §63.6620, Tables 3 and 4
New and reconstructed stationary engine > 500 bhp located at major sources	All sources: §63.6605 Some sources: §63.6635 and/or §63.6640	Either no requirements or §63.6610, §63.6615, §63.6620, Tables 3, 4, and 5

Notification, Reports, and Records (§63.6650):

Table 7: Notification requirements for applicable sources.

An existing stationary CI RICE with a site rating of ≤ 500 bhp located at a major source of HAPs	<ul style="list-style-type: none"> -Initial Notifications -Notification of Performance Test -Notification of Performance Evaluation -Request to use alternative monitoring procedure -Petition to use alternative to relative accuracy test -Request for extension of compliance -Notification that source is subject to special compliance requirements -Notification of performance test -Additional notifications for sources with continuous monitoring systems -Notification of compliance status. <p>For new sources:</p> <ul style="list-style-type: none"> -A notification of intention to construct a new affected source, reconstruct an affected source, or reconstruct a source such that the source becomes an affected source -notification of the actual date of startup of the source
An existing stationary CI RICE located at an area source of HAPs	
A stationary RICE with a site rating of > 500 bhp located at a major source	
A stationary RICE with a site rating of > 500 bhp located at a major source	
New or reconstructed 4SLB stationary RICE with a site rating of ≥ 250 bhp located at a major source of HAPs	
*Please note: This requirement does not apply if you own or operate an existing stationary CI RICE less than 100 bhp, an existing stationary emergency CI RICE, or an existing stationary CI RICE that is not subject to any numerical emission standards	

If you own or operate an existing stationary CI RICE less than 100 bhp, an existing stationary emergency CI RICE, or an existing stationary CI RICE that is not subject to any numerical emission standards, you are required to keep records of maintenance and hours of operation.

Refer to § 63.6650 and Table 7 in the rule for more detail on report submission. There are two separate date ranges for semi-annual compliance report submissions.

If your source is required to conduct a performance test: submit a Notification of Intent to conduct a performance test at least 60 days before the test

If your source is required to conduct a performance test or other initial compliance demonstration (Tables 4 and 5): submit a Notification of Compliance Status

When do I need to submit my Initial Notification (§63.6645)?

Table 8. Dates for initial notification submission.

New or reconstructed stationary RICE with a site rating of more than 500 bhp located at a major source started up before effective date	December 13, 2004
New or reconstructed stationary RICE with a site rating of more than 500 bhp started up after August 16, 2004	120 days after you are subject
Start up of source less than or equal to 500 bhp before effective date	July 16, 2008
Start up of source less than or equal to 500 bhp after March 18, 2008	120 days after you are subject
*If you are required to submit an initial notification but are otherwise not affected by the requirements of this subpart, your notification should include the requirements in §63.9(b)(2)(i) through (v) and a statement that your RICE has no additional requirements	

Records to keep (§63.6655):

If you are required to comply with emission limits and operating limitations, you are required to keep:

- ❖ A copy of each notification and report that you submitted to comply with this subpart
- ❖ Records of the occurrence and duration of each malfunction of operation
- ❖ Records of performance tests and evaluations as required
- ❖ Records of all required maintenance performed on the air pollution control and monitoring equipment
- ❖ Records of actions taken during periods of malfunction

Note: owners and operators of sources that utilize a CEMS or CPMS have additional records to keep listed in §63.6655.

Table 9. Additional records to keep for applicable sources.

<ul style="list-style-type: none"> ❖ New or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input (annually) 	Keep records of your daily fuel usage monitors
<ul style="list-style-type: none"> ❖ Existing stationary RICE with a site rating of less than 100 bhp located at a major source of HAP emissions ❖ Existing stationary emergency RICE ❖ Existing stationary RICE located at an area source of HAP emissions subject to management practices. 	Keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan
<ul style="list-style-type: none"> ❖ An existing emergency stationary RICE with a site rating of ≤ 500 bhp located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines. ❖ An existing emergency stationary RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines. 	Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation and non-emergency operation.

More specific requirements for recordkeeping are listed in §63.6655.

Length: you must keep each record for 5 years following the date of each occurrence
 Note also that if you are required to obtain an Ohio EPA air permit, you must follow any required record keeping and reporting found in the permit.

Who should I talk to if I have additional questions concerning this rule?

Ohio EPA recommends that if you have any questions about the applicability of these rules that you first contact your Ohio EPA permit writer at the District Office (DO) or Local Air Agency (Laa) that applies to your facility. You can determine who to talk to by reviewing the map found at: <http://www.epa.ohio.gov/dapc/general/dolaa.aspx> and calling the DO/Laa that is responsible for your facility.