

NOTIFICATION OF PERFORMANCE TESTING FOR STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE) -Compression Ignition Engines-

NESHAP
40 CFR, Part 63, Subpart ZZZZ [§ 63.6580 - 63.6675]

Instructions

1. Who Must Provide Notification?

On March 3, 2010, the U.S. Environmental Protection Agency (U.S. EPA) finalized a National Emission Standard for Hazardous Air Pollutants (NESHAP) for stationary reciprocating internal combustion engines (RICE). This standard is referred to as the NESHAP and requires certain RICE to provide notifications to the U.S. EPA. Those notifications are explained below.

The need to file the “Notification of Performance Testing” associated with the March 3, 2010, NESHAP standard is specific to compression ignition (CI) engines [§ 63.6600, 63.6602, 63.6603, 63.6620, Tables 3 & 4].

NOTE: This notification form is only for businesses operating CI engines. However, the NESHAP also addresses spark ignition engines at both major and area sources. Please refer to the Michigan Department of Environmental Quality (DEQ) “Compression Ignition Engines: NESHAP Subpart ZZZZ” guidance publication located at www.michigan.gov/degenvassistance, and select “Clean Air Assistance” under “Related Links” and then select “RICE” under “Federal Regulation” to understand if you are required to provide a notification of performance testing per § 63.6600, 63.6602, 63.6603, and 63.6620, Tables 3 & 4.

2. Definitions

Area source – any stationary source that has the potential to emit less than 10 tons per year of a single hazardous air pollutant (HAP) and less than 25 tons per year of any combination of HAPs.

Black start engine – an engine whose only purpose is to start up a combustion turbine.

Compression ignition engine – relating to a type of stationary internal combustion engine that is not a spark ignition engine. A spark ignition engine is a gasoline-fueled engine; or any other type of engine a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for chlorine and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Emergency stationary RICE – means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary RICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary RICE used to pump water in the case of fire or flood, etc. Stationary RICE used for peak shaving are not considered emergency stationary RICE. Stationary RICE used to supply power to an electric grid or that supply non-emergency power as part of a financial arrangement with another entity are not considered to be emergency engines, except as permitted under §63.6640(f). All emergency stationary RICE must comply with the requirements specified in §63.6640(f) in order to be considered emergency stationary RICE. If the engine does not comply with the requirements specified in §63.6640(f), it is not considered to be an emergency stationary RICE under this subpart.

*A **commercial emergency stationary RICE** means an emergency stationary RICE used in commercial establishments such as office buildings, hotels, stores, telecommunications facilities, restaurants, financial institutions such as banks, doctor's offices, and sports and performing arts facilities.*

An **institutional emergency stationary RICE** means an emergency stationary RICE used in institutional establishments such as medical centers, nursing homes, research centers, institutions of higher education, correctional facilities, elementary and secondary schools, libraries, religious establishments, police stations, and fire stations.

A **residential emergency stationary RICE** means an emergency stationary RICE used in residential establishments such as homes or apartment buildings.

Existing source (>500 HP site rating) – a major source of HAP emissions with a stationary RICE that commenced construction or reconstruction of the stationary RICE before December 19, 2002.

Existing source (≤500 HP site rating) – a major source of HAP emissions with a stationary RICE that commenced construction or reconstruction of the stationary RICE before June 12, 2006.

Existing source – an area source of HAP emissions with a stationary RICE that commenced construction or reconstruction of the stationary RICE before June 12, 2006.

Limited use – refers to any stationary RICE that operates less than 100 hours per year.

Major source – any stationary source or group of stationary sources located within a contiguous area and under common control that emits, or has the potential to emit, considering controls, 10 tons per year (tpy) or more of any single HAP, or 25 tpy or more of any combination of HAPs.

New source (>500 HP site rating) – a major source of HAP emissions with a stationary RICE that commenced construction or reconstruction of the stationary RICE on or after December 19, 2002.

New source (≤500 HP site rating) – a major source of HAP emissions with a stationary RICE that commenced construction or reconstruction of the stationary RICE on or after June 12, 2006.

Reconstructed Source - a source whose modifications, i.e., the fixed capital costs associated with the changes to the stationary compression ignition RICE exceeded 50 percent of the fixed capital cost that would be required to construct a comparable new engine:

- For a major source of HAP emissions with a site rating of more than 500 brake horsepower (HP) that commenced construction or reconstruction of the stationary RICE on or after December 19, 2002.
- For a major source of HAP emissions with a site rating of equal to or less than 500 brake horsepower (HP) that commenced construction or reconstruction of the stationary RICE on or after June 12, 2006.
- For an area source of HAP emissions that commenced construction or reconstruction of the stationary RICE on or after June 12, 2006.

3. How Do I Complete the Notification of Performance Testing Form?

The “**Facility Information**” section of the form must be completed by all businesses with stationary CI engines required to submit a notification.

Part A – Date of Schedule Performance Test(s). Identify the engine (i.e., serial number), whether it is an existing or new/reconstructed engine, engine’s site rating, and date of installation on the form. Check the boxes corresponding to the test procedures you will be performing on your engine(s). Identify the date the performance tests will be conducted.

The purpose of the notification is to give the U.S. EPA the opportunity to review and approve the site-specific test plan as required under Title 40, Part 63, Subpart A, Section 63.7(c) of the Code of Federal Regulations (40 CFR 63). The test plan shall include a test program summary, the test schedule, data quality objectives, and both an internal and external quality assurance (QA) program.

Part B – Compliance Certification must be completed by all businesses required to submit a notification.

3. When Must the Notification Forms Be Submitted?

For **new sources**, the performance tests must be conducted upon startup of the engine. For **existing sources**, the performance tests must be conducted by March 3, 2013. The Notification of Performance Testing must be submitted at least 60 days before the day of the performance test.

4. Where Do I Send The Completed Form?

Please make copies of this form and submit the original signed copy by U.S. mail, or by another courier, to the **U.S. EPA Region 5 Office** at the following address, and mail one copy to your local DEQ District Office (refer to map on page 6):

U.S. EPA Region 5,
Compliance Tracker (AE-17J)
77 West Jackson Blvd.
Chicago, IL 60604

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-Compression Ignition Engines-

NESHAP
40 CFR, Part 63, Subpart ZZZZ [§ 63.6580 - 63.6675]

Please review the Instructions before completing this form. Please print or type all information.

Source Type (please check one) Major source of HAPS (attach emissions data generated for notification)
 Area source of HAPS

PART A – FACILITY INFORMATION

Company Information

Company Name: _____ Telephone Number: _____
 Mailing Address: _____ Fax Number: _____
 City: _____ State: _____ Zip: _____

Owner/Operator Information

Name and Title: _____ Telephone Number: _____
 Mailing Address: _____ E-mail: _____
 City: _____ State: _____ Zip: _____

Please check whether the person listed above is owner or operator of the Facility: Owner Operator

Facility Location Information (If different from Company Information)

Company Name: _____
 Street Address: _____ County: _____
 City: _____ State: _____ Zip: _____

Compression Ignition (CI) RICE Information

(Refer to Instructions for definitions)

Identify the CI engines located at the above location.

Source Type	Site Rating (brake HP)	Fuels Combusted	Engine Type	
<input type="checkbox"/> New <input type="checkbox"/> Existing			<input type="checkbox"/> Non-Emergency <input type="checkbox"/> Emergency	<input type="checkbox"/> Emergency –Residential, Commercial, Institutional <input type="checkbox"/> Limited Use
<input type="checkbox"/> New <input type="checkbox"/> Existing			<input type="checkbox"/> Non-Emergency <input type="checkbox"/> Emergency	<input type="checkbox"/> Emergency –Residential, Commercial, Institutional <input type="checkbox"/> Limited Use
<input type="checkbox"/> New <input type="checkbox"/> Existing			<input type="checkbox"/> Non-Emergency <input type="checkbox"/> Emergency	<input type="checkbox"/> Emergency –Residential, Commercial, Institutional <input type="checkbox"/> Limited Use

PART B – Performance Tests

B.1 Describe Any Performance Tests that you are required to do for each stationary CI engine at the location above.

Please refer to § 63.6600, §63.6602, §63.6603, §63.6620 and Tables 3 and 4 for more information on the required test for your specific CI engine.

Example Information:

CI RICE ID #	Location	Test Date (future)	Equipment/Method to be used	Other

PART C – COMPLIANCE CERTIFICATION

H.1 Compliance Certification Statement

I certify the truth and accuracy and completeness of this notification and (*Please check one of the following three statements*):

- (a) Yes, I am subject to Subpart ZZZZ, and considered an existing source in compliance with the relevant requirements by May 3, 2013.
- (b) Yes, I am subject to Subpart ZZZZ, and considered a new source and will be/am compliant upon startup.
- (c) Yes, I am subject to Subpart ZZZZ, and considered a new source that is not operating in compliance with Subpart ZZZZ. The following is an explanation of the noncompliance and details of the corrective actions being taken to achieve compliance.

Certifying Official: Owner Operator (check one)

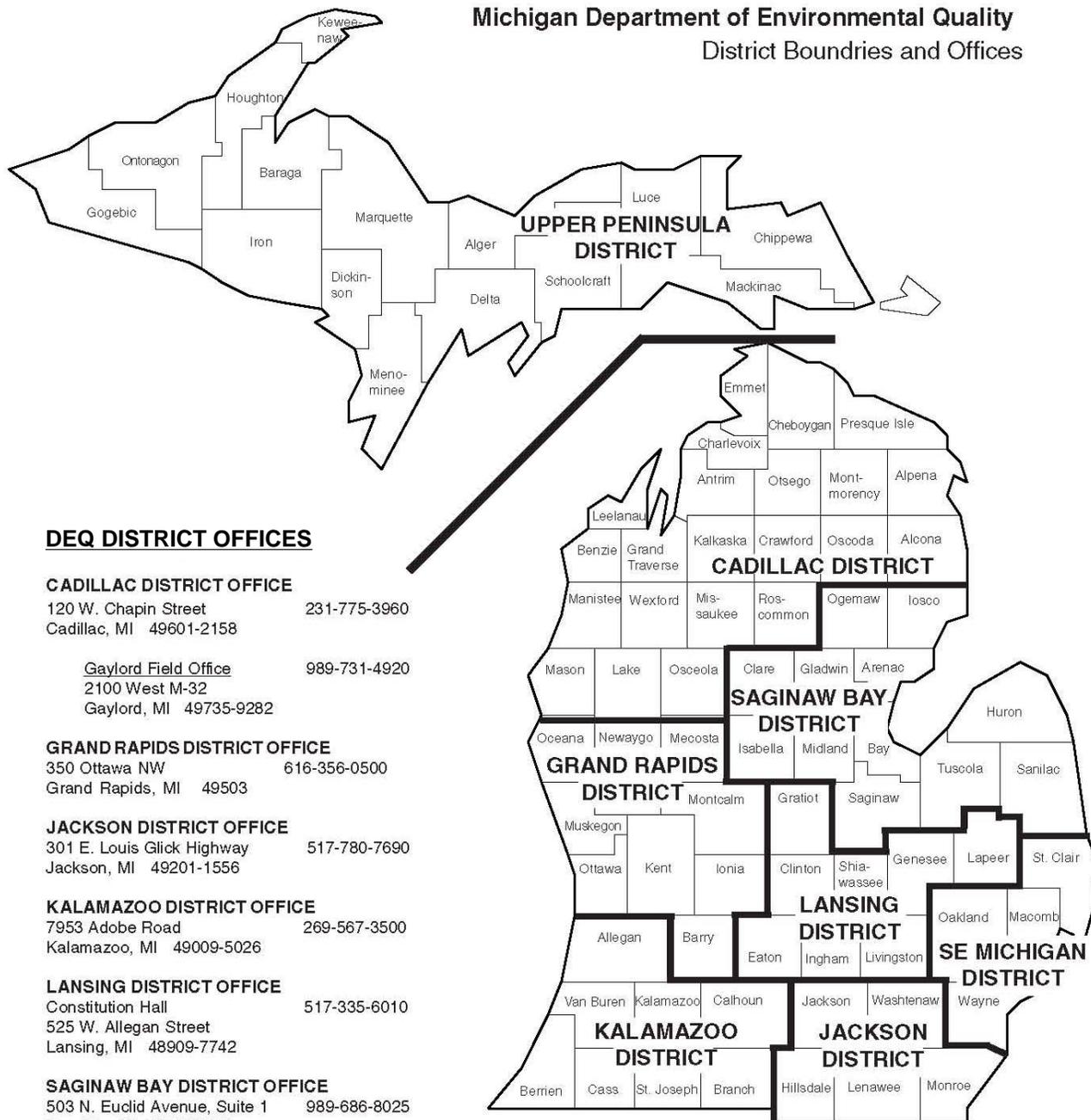
Name of Certifying Official (print or type) Title

Signature of Certifying Official Date

Please make copies of this form and submit the original signed copy by U.S. mail, or by another courier, to the **U.S. EPA Region 5 Office** at the following address. Mail one copy to your local DEQ District Office (refer to map on page 6):

U.S. EPA Region 5,
Compliance Tracker (AE-17J)
77 West Jackson Blvd.
Chicago, IL 60604

Michigan Department of Environmental Quality
District Boundries and Offices



DEQ DISTRICT OFFICES

CADILLAC DISTRICT OFFICE

120 W. Chapin Street 231-775-3960
Cadillac, MI 49601-2158

Gaylord Field Office 989-731-4920
2100 West M-32
Gaylord, MI 49735-9282

GRAND RAPIDS DISTRICT OFFICE

350 Ottawa NW 616-356-0500
Grand Rapids, MI 49503

JACKSON DISTRICT OFFICE

301 E. Louis Glick Highway 517-780-7690
Jackson, MI 49201-1556

KALAMAZOO DISTRICT OFFICE

7953 Adobe Road 269-567-3500
Kalamazoo, MI 49009-5026

LANSING DISTRICT OFFICE

Constitution Hall 517-335-6010
525 W. Allegan Street
Lansing, MI 48909-7742

SAGINAW BAY DISTRICT OFFICE

503 N. Euclid Avenue, Suite 1 989-686-8025
Bay City, MI 48706-2925

SOUTHEAST MICHIGAN DISTRICT OFFICE

27700 Donald Court 586-753-3700
Warren, MI 48092-2793

Detroit Field Office 313-456-4700
Cadillac Place
3058 West Grand Boulevard, Suite 2-300
Detroit, MI 48202-6058

UPPER PENINSULA DISTRICT OFFICE

420 5th Street 906-346-8300
Gwinn, MI 49841

ENVIRONMENTAL ASSISTANCE CENTER

(for general information):

Telephone: 800-662-9278
Fax: 517-241-0673

POLLUTION EMERGENCIES

Telephone: 800-292-4706

DEQ WEB PAGE

www.michigan.gov/deq