INITIAL NOTIFICATION 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) located at major or area sources of hazardous air pollutants (HAP) emissions. 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 "*Initial Notification"* associated with the March 3, 2010, NESHAP standard is specific to compression ignition engines. NOTE: This notification form is only for businesses operating compression ignition engines. However, the NESHAP also addresses spark ignition engines at both major and area sources of HAP emissions.

*Who **Does** Notify:*

- ✓ Existing compression ignition engines at major and area sources of HAP emissions.
- ✓ New or reconstructed compression ignition engines with a site rating of less than or equal to 500 brake horsepower (HP) at major sources of HAP emissions.

*Who **Does Not** Notify:*

- ✓ Existing stationary emergency compression ignition engines with a site rating of more than 500 brake HP located at major sources of HAP emissions.
- ✓ Existing stationary limited use compression ignition engines with a site rating of more than 500 brake HP located at major sources of HAP emissions.
- ✓ Existing stationary compression ignition engines with a site rating of more than 500 brake HP located at major sources of HAP emissions that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.
- ✓ Existing stationary residential, commercial, or institutional compression ignition engines located at an area source of HAP emissions.
- ✓ New or reconstructed stationary compression ignition engines located at an area source of HAP emissions subject to and meeting the requirements of 40 CFR part 60 subpart IIII (*New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines*, § 60.4200-60.4219).
- ✓ New or reconstructed stationary compression ignition engines with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis subject to and meeting the requirements of 40 CFR part 60 subpart IIII (*New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines*, § 60.4200-60.4219).
- ✓ New or reconstructed stationary emergency, limited use or non-emergency compression ignition engines with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions subject to and meeting the requirements of 40 CFR part 60 subpart IIII (*New Source Performance Standard for Stationary Compression Ignition Internal Combustion Engines*, § 60.4200-60.4219).

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 CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

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

> *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. When Must the Notification Forms Be Submitted?

Existing sources were supposed to submit their Initial Notification by August 31, 2010. If the Initial Notification deadline was missed, the form should still be submitted.

The deadline for **new/reconstructed sources** to submit the initial notification was August 31, 2010, or 120 days after the source becomes subject to the rule.

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-

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

Source Type *(please check one)* ☐ Major source of HAPS ☐ Area source

FACILITY INFORMATION

Company Information

Company Name: _____

Mailing Address: _____ Telephone Number: _____

_____ Fax Number: _____

City: _____ State: _____ Zip: _____

Owner/Operator Information

Name and Title: _____

Mailing Address: _____ Telephone Number: _____

_____ 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	
☐ New ☐ Existing			☐ Non-Emergency ☐ Emergency	☐ Emergency –Residential, Commercial, Institutional ☐ Limited Use
☐ New ☐ Existing			☐ Non-Emergency ☐ Emergency	☐ Emergency –Residential, Commercial, Institutional ☐ Limited Use
☐ New ☐ Existing			☐ Non-Emergency ☐ Emergency	☐ Emergency –Residential, Commercial, Institutional ☐ Limited Use
☐ New ☐ Existing			☐ Non-Emergency ☐ Emergency	☐ Emergency –Residential, Commercial, Institutional ☐ Limited Use

PART B – COMPLIANCE CERTIFICATION

B.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 and will be 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)

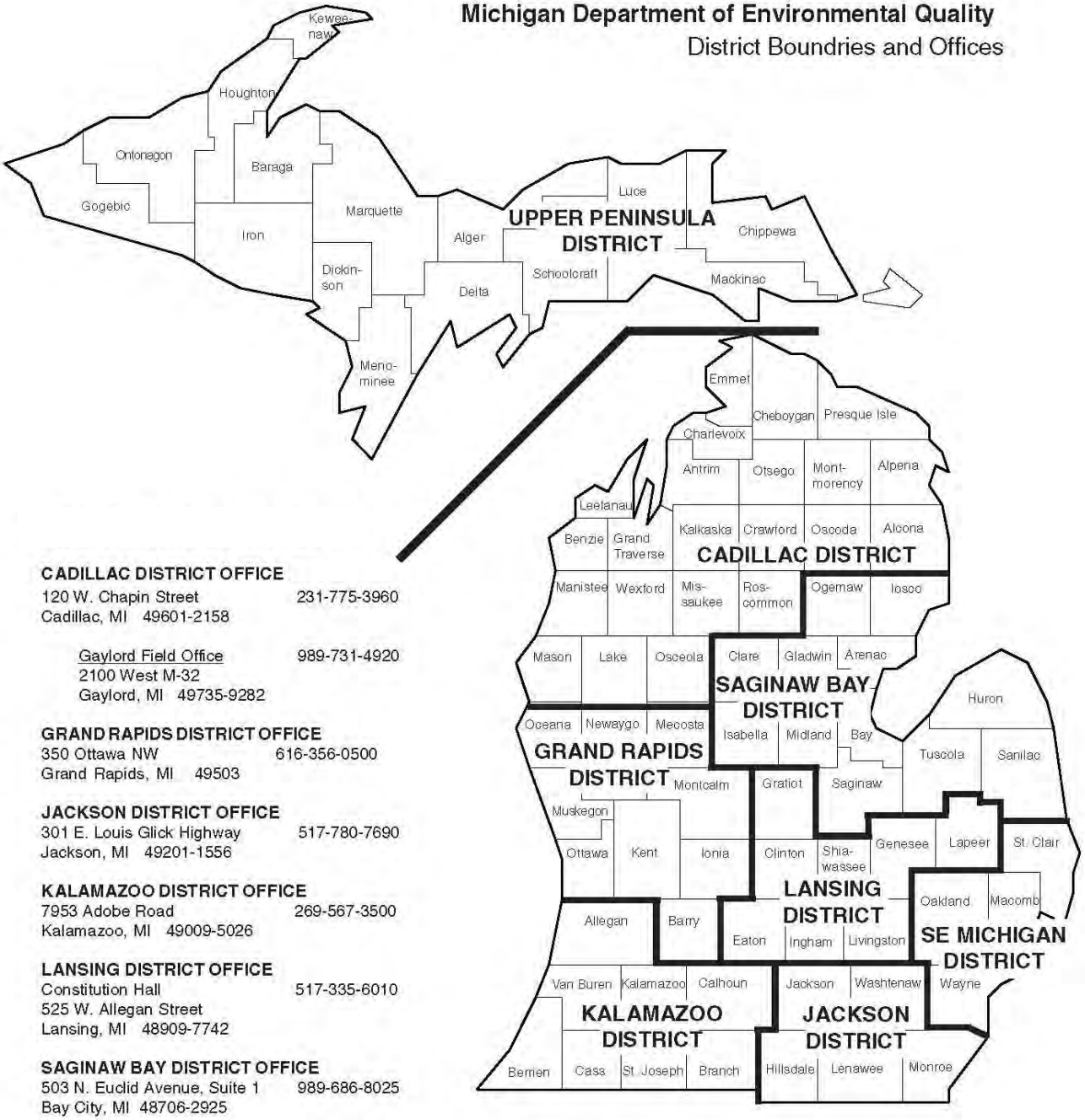
Name of Certifying Official (print or type) Title

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



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