

National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines (RICE Rule) Training Module 40 CFR 63 Subpart ZZZZ

Script- Major Source New Compression Ignition Limited Use Engine >500 Horsepower

NARRATOR:

[Slide 2:]

Welcome to the Connecticut Department of Energy & Environmental Protection's Online Training for the National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines, also known as the RICE Rule!

This tool is designed to help owners and operators of reciprocating internal combustion engines, also known as RICE, determine their requirements under 40 CFR Section 63, subpart ZZZZ. By answering the successive questions, your specific requirements have been estimated. Please note that they may not be complete, and refer any questions to your local authority.

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We have established that you own or operate a new compression ignition limited use engine, greater than 500 horsepower, located at a major source. Keep in mind, your engine is only considered limited use if it operates less than 100 hours per year. Now, let's discuss your requirements.

The rule requires you to submit an Initial Notification within 120 days after the effective date of the rule or 120 days after construction or reconstruction of the unit. A sample Initial Notification of Applicability form can be found on the EPA RICE Compliance web page. The address for this site will be provided later in this module.

The Initial Notification must include the following information:

- The owner or operator's name and address.
- The address where the affected source is physically located.
- The relevant standard which requires submission of a notification, and your compliance date.
- A short description of the engine, including its size, nature, design, method of operation, and the types of emission points within the affected source that are subject to the applicable standard, along with the hazardous air pollutants emitted.
- An indication as to whether the engine is located at an area or major source of hazardous air pollutants; and
- A statement indicating that the unit has no additional requirements along with an explanation of the exclusion. In this instance, the exclusion is based on the fact that the engine operates as a limited use engine if it has a site rating of greater than 500 horsepower at a major source.

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All notifications and reports should be sent to EPA Region 1 at the address shown here.

[Slide 5:]

You must be in compliance with all applicable requirements by the date shown here.

[Slide 6:]

Since your unit is subject to the Compression Ignition New Source Performance Standards, or "CINSPS", you are required to meet emission and operating limits, testing requirements, and fuel sulfur limits. As of October 1st, 2010

engines with a displacement of less than 30 liters per cylinder must meet a fuel sulfur limit of 15 ppm. As of June 1st, 2012 engines with a displacement of greater than or equal to 30 liters per cylinder must meet a fuel sulfur limit of 1,000 ppm.

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If you own or operate an engine with a displacement less than 30 liters per cylinder that is 2007 model year or later, or a fire pump engine that is a 2008 through 2011 model year or later, depending on engine size, you must:

- Purchase a certified engine
- Install, configure, operate, and maintain the unit in accordance with the manufacturer's written instructions and procedures. Performance testing is not required. Note that you can operate in a manner other than that which the manufacturer has recommended; however, you must then complete a performance test to demonstrate compliance.

If your engine is not required to be certified, you can demonstrate compliance by one of the following methods:

- Purchase a certified engine
- Keep records of performance testing conducted on a similar engine
- Keep records of engine manufacturer data indicating compliance
- Keep records of control device vendor data indicating compliance
- Conduct an initial performance test.

Engines with a displacement greater than or equal to 30 liters per cylinder must conduct initial and annual performance tests and continuously monitor operating parameters.

[Slide 8:]

This plate, mounted on an engine, shows proof of engine certification.

[Slide 9:]

In case you are not familiar with an EPA Certificate of Conformity, here's what it looks like.

[Slide 10:]

The owner or operator of any compression ignition engine that is required to meet the NSPS performance standard and is equipped with a diesel particulate filter must include a backpressure monitor that notifies when the high backpressure limit of the engine is approached and keep records of any corrective actions taken after the monitor has notified that the limit is approached.

Non-emergency engines greater than 3,000 horsepower or having a displacement of greater than 10 liters per cylinder, and non-emergency engines installed prior to the 2007 model year that are greater than 175 horsepower and not certified must submit an Initial Notification, keep records of notifications and maintenance, and if certified, keep engine certification records. If the engine is not certified, you must keep records of compliance demonstrations.

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Please study this table to determine your applicable emission standards, importing and installing requirements, compliance requirements, testing requirements, reporting requirements and general requirements.

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If you would like more information about the RICE rule, please visit the EPA RICE Compliance web page at the address provided. This site provides resources such as Q and A documents, fact sheets, sample notification forms, and recordings of webinars, all of which are designed to help you comply with this rule.

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Let's summarize your requirements under this rule.

- You must submit an Initial Notification of Applicability within 120 days after the effective date or after construction or reconstruction.
- Your engine must be in compliance with all requirements of this rule by the date shown on screen.
- Your engine must comply with all applicable CI NSPS requirements.