

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 Spark 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, spark 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 Spark Ignition New Source Performance Standards, or "SI NSPS," you must meet emission and operating limits, testing requirements, and a fuel sulfur limit of 80 parts per million.

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If you have a certified engine, you must install, configure, operate and maintain the engine according to the manufacturer's instructions. If you do not operate or maintain your engine according to the manufacturer's instructions, or your engine is not certified, then you must keep your maintenance plan and maintenance records, operate consistent with good air pollution control practices, and conduct an initial performance test and subsequent testing every 8,760 operating hours or three years, whichever comes first.

All owners and operators must maintain records of the EPA Certificate of Conformity and maintain records of engine maintenance. Owners or operators of non-certified engines must also submit an Initial Notification. A Notification of Intent to Conduct Performance Testing must be submitted 30 days prior to a performance test. Submit results of performance testing within 60 days of completing the test.

[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:]

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

[Slide 11:]

You must conduct performance tests for nitrogen oxides and carbon monoxide according to the procedures and formulas here. Each test must be conducted within 10% of 100% or the highest achievable load and according to the requirements in 40 CFR 60.8. You may not conduct tests during periods of startup, shutdown, or malfunction.

[Slide 12:]

If you are testing for compliance with the volatile organic compound, or VOC, limit, do not include formaldehyde emissions. To determine compliance with the VOC mass per unit output emission limit, convert the concentration of VOC in the engine exhaust using the equation shown here.

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If you choose to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, you have the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using the equations listed here. The corrected VOC concentration can then be placed on a propane basis using the last equation in this section.

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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 SI NSPS requirements.