

National Emission Standards for Hazardous Air Pollutants for
Reciprocating Internal Combustion Engines (RICE Rule) Training Module
40 CFR 63 Subpart ZZZZ
Script- Area Source New Non-Emergency Compression Ignition
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, non-emergency compression ignition engine, less than or equal to 500 horsepower, at an area source. Now, let's discuss your requirements.

You must comply with the rule by meeting the requirements in the Compression Ignition New Source Performance Standards, also known as "CI NSPS." You must comply with the applicable requirements upon startup of the engine.

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You are subject to the CI NSPS, listed in 40 CFR 60 part IIII, if you own or operate a compression ignition engine that was constructed after July 11th, 2005 **and** manufactured after April 1st, 2006 (or July 1st, 2006 if it is a fire pump engine). For the purposes of this rule, the date that construction commences is the date the engine is *ordered* by the owner or operator. You are also subject to the CI NSPS if you own or operate a compression ignition engine that was modified or reconstructed after July 11th, 2005.

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If you are subject to the CI NSPS, you must meet the following requirements:

- For emission limits, operating limits, testing requirements, and monitoring requirements, please refer to the table listed later in this module.
- All standards must be met for the life of the engine.

Now let's discuss your fuel requirements. As of October 1st, 2010, you must use ultra low sulfur diesel for engines having a displacement of less than 30 liters per cylinder. You may use up any diesel fuel acquired prior to October 1st, 2010 that does not meet the requirements for nonroad diesel fuel.

If your engine has a displacement greater than or equal to 30 liters per cylinder, you must use diesel fuel having a maximum per-gallon sulfur content of 1,000 parts per million as of June 1st, 2012.

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If you are subject to the CI NSPS, you must also meet the following requirements:

- 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 2008-2011 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 must employ one of the following methods for demonstrating compliance:
 - Purchase a certified engine, or
 - Keep records of a performance test conducted on a similar engine, or
 - Keep records of engine manufacturer data indicating compliance, or
 - Keep records of control device vendor data indicating compliance, or
 - Conduct an initial performance test.
- If your engine has a displacement of 30 liters per cylinder or greater, you must complete an initial performance test, conduct annual performance testing to demonstrate continuous compliance with the emission standards, and continuously monitor the operating parameters.

[Slide 7:]

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

[Slide 8:]

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

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Next, we will discuss your recordkeeping and reporting requirements. If your engine is equipped with a diesel particulate filter, you must install a backpressure monitor to notify when the high backpressure limit is approached and keep records of corrective actions taken after the backpressure monitor has given this notification.

If your engine is greater than 3,000 horsepower or has a displacement greater than 10 liters per cylinder, and is pre-2007 model year non-certified, you must:

- Submit an initial notification
- Keep records of all notifications submitted and maintenance performed
- If the engine is certified, keep engine certification records
- If the engine is not certified, 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.

[Slide 11:]

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

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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 the requirements for your new or reconstructed, non-emergency compression ignition engine at an area source with a site rating of less than or equal to 500 horsepower.

You must comply with all Compression Ignition New Source Performance Standards requirements, as applicable.

You must be in compliance with all requirements upon startup of the engine.