

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 Spark Ignition 4-Stroke Rich Burn
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.

[Slide 3:]

We have established that you own or operate a new, non-emergency spark ignition 4-stroke rich burn engine, having a site rating less than or equal to 500 horsepower, at an area source. Now, let's discuss your requirements.

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

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You are subject to the SI NSPS if you own or operate a spark ignition engine which was constructed after June 12th, 2006 **and** manufactured on or after July 1st, 2008 for engines less than 500 horsepower or July 1st, 2007 for engines equal to 500 horsepower. 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 SI NSPS if you own or operate a spark ignition engine that was modified or reconstructed after June 12th, 2006.

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If your engine is subject to the SI NSPS, you must meet the following requirements:

- For applicable emission limits, operating limits, testing requirements, and monitoring requirements, please refer to the table listed later in this module.
- You must meet all standards for the life of the engine.

Now let's discuss your fuel requirements. If your engine runs on gasoline, the gasoline must comply with the sulfur limit of 80 parts per million per gallon.

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If you have a certified engine:

- You must install, operate, and maintain the unit in accordance with the manufacturer's written instructions
- If you do not adhere to the manufacturer's instructions and your engine is greater than or equal to 100 horsepower, you must keep a maintenance plan and maintenance records, and operate the engine in

accordance with good air pollution control practices. Failure to adhere to the manufacturer's instructions will also trigger the requirement to conduct an initial performance test. You are not required to conduct subsequent performance testing unless the stationary engine is rebuilt or undergoes major repair or maintenance.

If you have a non-certified engine that is greater than 25 horsepower, you must keep a maintenance plan and complete an initial performance test. You are not required to conduct subsequent performance testing unless the stationary engine is rebuilt or undergoes major repair or maintenance.

All engines subject to the SI NSPS are required to keep the following records:

- Documentation of certification (for example, the EPA Certificate of Conformity); and
- Records of engine maintenance.

You must submit an Initial Notification if you own or operate a non-certified engine that is **equal to** 500 horsepower. A Notification of Intent to Conduct Performance Testing must be submitted 30 days prior to a performance test. Results of performance testing must be submitted within 60 days of the test.

[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.

[Slide 9:]

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

[Slide 10:]

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

[Slide 11:]

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.

[Slide 12:]

Let's summarize the requirements for your new or reconstructed, non-emergency spark ignition 4-stroke rich burn engine at an area source with a site rating less than or equal to 500 horsepower.

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

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