

RICE NESHAP Overview

Energy Solutions for Business
February 16, 2012



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Overview will provide:

- Brief regulatory background
 - RICE NESHAP (Reciprocating Internal Combustion Engines National Emissions Standards for Hazardous Air Pollutants)
 - NSPS (New Source Performance Standards)
- Compliance assistance contact information
- Additional information resources
- Key questions to determine RICE NESHAP and NSPS compliance requirements



Background

- Purpose of NSPS and NESHAP: Reduce criteria and air toxic pollutants to provide improvements in protecting human health and the environment
- RICE NESHAP rule promulgated in phases
- Recent RICE NESHAP regulatory changes impact existing RICE located at area sources of HAP emissions
- RICE NESHAP Compliance Dates
 - **May 3, 2013:** Existing Stationary Compression Ignition RICE
 - **October 19, 2013:** Existing Spark Ignition RICE



EPA's Small Business Websites



www.smallbiz-enviroweb.org



www.epa.gov/smallbusiness

Small Business Ombudsman

www.epa.gov/sbo

or 1-800-368-5888



EPA Program Contacts



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e-CFR

- **RICE NESHAP:** Title 40, Part 63, Subpart ZZZZ (§§ 63.6580 – 63.6675)
- **NSPS CI Engines:** Title 40, Part 60, Subpart IIII (§§ 60.4200 – 60.4219)
- **NSPS SI Engines:** Title 40, Part 60, Subpart JJJJ (§§ 60.4230 – 60.4248)

The screenshot shows the GPO Access website for the Electronic Code of Federal Regulations (e-CFR). The page features a navigation bar with categories: LEGISLATIVE, EXECUTIVE, JUDICIAL, HELP, and ABOUT. Below this is a search bar with a 'Go' button and a 'Resources by Topic' dropdown. The main content area displays the title 'Electronic Code of Federal Regulations e-CFR' and a red notice: 'e-CFR Data is current as of February 7, 2012'. A 'USER NOTICE' section explains that the e-CFR is a currently updated version of the Code of Federal Regulations (CFR) and is not an official legal edition. It is produced by the National Archives and Records Administration's Office of the Federal Register (OFR) and the Government Printing Office. The OFR updates the material on a daily basis. Below the notice, there is a 'Browse' section with a dropdown menu showing 'Title 40 - Protection of Environment' and a 'Go' button. The left sidebar contains 'DATABASE FEATURES' such as Browse, Simple Search, Advanced Search, Boolean, Proximity, Search History, Search Tips, Corrections, Latest Updates, User Info, FAQs, Agency List, Incorporation by Reference, and e-CFR Main Page. At the bottom, there are 'RELATED RESOURCES' including Code of Federal Regulations.

EPA Rule Implementation and Info.

RICE NESHAP:

<http://www.epa.gov/ttn/atw/rice/ricepg.html>

NSPS CI Engines (Diesel Engines):

<http://www.epa.gov/ttn/atw/nsps/cinsps/cinspspg.html>

NSPS SI Engines:

<http://www.epa.gov/ttn/atw/nsps/sinsps/sinspspg.html>

- Rule Information
- Technical Information
- Fact Sheets
- Implementation Information



Implementation Information

The screenshot shows a web browser window titled "Rule and Implementation Information for Reciprocating Internal Combustion Engines - Windows Internet Explorer". The address bar shows the URL "http://www.epa.gov/ttn/atw/rice/ricepg.html". The page content is titled "Implementation Information" and lists several items with their dates and descriptions. Two red arrows point to the following items:

- 12/7/11 Stationary RICE NESHAP and NSPS webinar
- 4/5/11 Regulation Navigation Tool

Other items in the list include:

- 05/18/11 MEMO: Control Costs for Existing Stationary Compression Ignition RICE
- 05/18/11 MEMO: Control Costs for Existing Stationary Spark Ignition RICE
- 10/7/10 Example Notification of Compliance Status Report
- 09/30/10 Guidance on RICE NESHAP residential-institutional-commercial emergency engine definition
- 10/14/10 Initial Notification Example for Stationary Spark Ignition Reciprocating Internal Combustion Engines area source rule 40 CFR Part 63 Subpart ZZZZ
- 7/2/10 Initial Notification Example for Stationary Reciprocating Internal Combustion Engines area source rule 40 CFR Part 63 Subpart ZZZZ
- 11/4/10 Stationary Reciprocating Internal Combustion Engines: Applicability Flowchart

The browser's taskbar at the bottom shows several open applications, including "Calendar - karin.kamu...", "7 Reminders", "hawaiianelectric.net...", "RICE NESHAP_Energ...", and "Rule and Implementa...". The system tray shows the date and time as "3:20 PM".

EPA Air Pollution Training Institute RICE NESHAP & NSPS Webinar

<http://www.epa.gov/apti/broadcast.html#december72011webinar>

The screenshot shows a Windows Internet Explorer browser window displaying the EPA's 2005 Training Calendar. The address bar shows the URL: <http://www.epa.gov/apti/broadcast.html#december72011webinar>. The page content is organized into sections, each with a blue header bar. A red arrow points to the first entry in the 'Stationary RICE NESHAP and NSPS Webinar - December 7, 2011' section.

Title	Format	Length (hr:min:sec)	Size (MB)	Actions
Stationary RICE NESHAP and NSPS Webinar - December 7, 2011				
Stationary RICE NESHAP and NSPS webinar - December 7, 2011	Flash	01:21:45		PLAY VIDEO
Materials	PDF	53 Pages, 3,198 KB		Materials
Top of page				
Addressing Air Emissions from the Petroleum Refinery Sector - October 18, 2011				
Addressing Air Emissions from the Petroleum Refinery Sector - October 18, 2011	Flash	01:42:00		PLAY VIDEO
Materials	PDF	52 Pages, 633 KB		Materials
Top of page				
Pulp and Paper Webinar - June 30, 2011				
Pulp and Paper Webinar - June 30, 2011	Flash	00:35:16		PLAY VIDEO
Top of page				
How to Create a Successful Air Toxics Monitoring Program Webinar Part 3, September 7, 2011				
How to Create a Successful Air Toxics Monitoring Program Webinar - Part 3	Flash	00:95:29		PLAY VIDEO
September 7, 2011				




Regulation Navigation Tool

<http://www.epa.gov/ttn/atw/rice/output/quiz.html>

Stationary Reciprocating Internal Combustion Engines (RICE)

REG NAV:

National Emission Standards for
Hazardous Air Pollutants for
Reciprocating Internal Combustion
Engines
(RICE rule)



NEXT ►



Key RICE NESHAP Questions

- Major or Area Source of HAP Emissions?
- New, Reconstructed, or Existing Stationary RICE
- Engine Use?
 - Non-emergency
 - Limited Use
 - Black Start
 - Emergency

(Note: RICE NESHAP and NSPS definitions of emergency engine are not the same)
- Engine Type?
 - Compression Ignition
 - Spark Ignition



RICE NESHAP Compliance Requirements Non-Emergency RICE

- Emission Limits
 - Limit carbon monoxide or formaldehyde
 - Dependent on engine type and power
 - Pollution controls may be necessary
- Ultra Low Sulfur Diesel (ULSD) for certain compression ignition RICE
- Periodic performance testing
- Notification and recordkeeping



RICE NESHAP Compliance Requirements Emergency RICE

- Emergency stationary RICE subject to fewer compliance requirements
- Existing emergency stationary RICE must comply with requirements in § 63.6640(f) which includes:
 - **Limit of 15 hours per year as part of an emergency demand response (DR) program**
(Note: NSPS does not allow any operation as part of an emergency DR program)
- EPA to revise RICE NESHAP and NSPS to increase DR limit to 60 hours
 - Proposed rules by April 20, 2012
 - Final rules by December 14, 2012



Key NSPS Questions

- Date construction commenced?
- New, Modified, or Reconstructed Stationary RICE?
- Engine Use?
 - Non-emergency
 - Emergency

(Note: RICE NESHAP and NSPS definitions of emergency engine are not the same)
- Engine Type?
 - Compression Ignition
 - Spark Ignition
- Other Engine Information
 - Model Year
 - Engine Power
 - Displacement



NSPS Compliance Requirements

- Dependent on answers to key questions
- Emission limits
 - Dependent on engine model year, type, and power
 - Pollution controls may be necessary
- Fuel sulfur limits for certain engines
- Notification and recordkeeping



Questions?

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