

# Area Source Boiler Rule

1

**40 CFR PART 63  
FINAL CHANGES, SUMMARY OF HIGHLIGHTS  
JANUARY 2013  
GEORGE FRANTZ, SUSAN LANCEY  
EPA R1**

# Area Source Boiler Changes

2

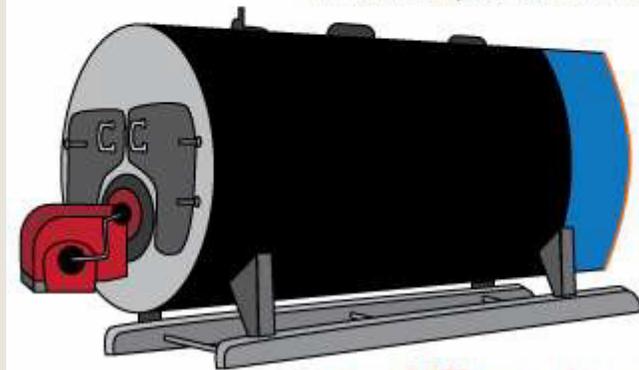
## Overview

- December 20, 2012, EPA finalized a specific set of adjustments to March 2011 Clean Air Act standards, for boilers and certain solid waste incinerators.
- These adjustments:
  - maintain extensive public health protections by reducing toxic air pollution, including mercury and particle pollution.
  - increase the rules' flexibility and address concerns raised by stakeholders, maintain the dramatic cuts in the cost of implementation that were achieved in the final standards issued in March 2011.
  - provide clarity in identifying which non-hazardous secondary materials are, or are not, solid wastes when burned in combustion units.
- Overall, these final standards address new data provided to the agency and additional information about real-world performance and conditions under which affected boilers and incinerators operate.

## Less than 1% of boilers need to meet limits

About **1.3 million** are clean and do nothing under these rules

About **197,000** will only need to do annual tune ups to reduce toxics



About **2,300** may need to use controls to reduce toxics and meet emission limits

## More Area Sources Changes

3

- The deadline for initial notification for existing area source boilers was adjusted to no later than January 20, 2014.
- Existing area source boilers will have until March 21, 2014 to comply with these standards.
- For coal-fired units, sources may request an additional year to comply, for installation of controls, if needed.
- EPA also has tools to address additional concerns arising for individual sources on a case-by-case basis.

# Breakdown of Major and Area Source Boilers

4

## Major Source Boilers

- About 14,000 covered units
- **88% (about 12,300) would need to follow** work practice standards, such as annual tune ups, to minimize toxics.
- **12% (about 1,700) would need to meet** numerical emission limits to minimize toxics.
- **88% follow** Work practices
- **12% have** numerical emission limits

## Area Source Boilers

- About 183,000 covered units
- No natural gas boilers are covered by this rule.
- **99% (about 182,400) would need to follow** work practice standards, such as tunes ups on a biennial or 5-year basis
- **Less than 1%** (about 600) would need to meet emission limits to minimize toxics

# Compliance Dates

5

- We changed the deadline for **initial notification** for existing area source boilers to January 20, 2014.
- Delayed by two years the **initial compliance date** for existing area source boilers subject to the tune-up requirement, until March 21, 2014
- Existing boilers of >10 MM BTU/hr capacity, which are subject to the **energy assessment** requirement must still achieve compliance no later than **March 21, 2014**.

# Specific Changes – Area Source Boilers

6

New Definition of Hot Water Heaters – (which are not covered by the rule):

- **Hot water heater** means a closed vessel with a capacity of no more than 120 U.S. gallons in which water is heated by combustion of gaseous, liquid, or biomass fuel and hot water is withdrawn for use external to the vessel. Hot water boilers (i.e., not generating steam) combusting gaseous, liquid, or biomass fuel with a heat input capacity of less than 1.6 million Btu per hour are included in this definition. The 120 U.S. gallon capacity threshold to be considered a hot water heater is independent of the 1.6 million Btu per hour heat input capacity threshold for hot water boilers. Hot water heater also means a tankless unit that provides on-demand hot water.
- **Gas-fired** or electric boilers are not covered by the rule
- **Seasonal Use and Limited Use Subcategories** - EPA is establishing subcategories for seasonal use boilers and limited use boilers that will reduce the compliance burden for these less frequently used boilers.

## Specific Changes (cont'd)

7

- **Temporary boilers**, i.e., units used temporarily in place of another boiler while that unit is being replaced or repaired, generally over an operational period of less than 12 months, unless an extension is approved are not covered by the rule.
- **Residential boilers**, i.e, boilers intended primarily for heat or power for a residential unit of up to four families, or a single unit residence that has been converted or subdivided into apartments or condos are not covered by the rule.
- **Dual-fueled boilers** - revised provisions for existing dual-fuel fired units that fuel switch from gas to coal, biomass or oil such that they would still be considered existing sources.

# Additional Changes

8

- Electronic Reporting –
  - OAQPS is developing an electronic reporting package for the area source boiler rule.
  - It will include the compliance reporting elements and is planned to be ready for use by October 2013.
    - ✦ Sources will be required to go to an EPA website, create a CDX identity and submit required reports (*notice of compliance status and performance test reports*) online. They will receive an email confirming EPA's receipt of the electronic documents.
  - But... it will not include the initial reporting requirements

# Specific Changes (cont'd)

- **Small oil-fired boilers** with a heat input capacity of < 5MM BTU/HR (40 CFR Part 63.11223), established separate requirements requiring them to complete a tune-up every five years, instead of every two years.
- **Energy assessment** - more clearly defined the scope and allowed for more streamlined assessments, including allowing sources already operating under certain energy management programs to satisfy the assessment requirement, e.g., ISO 50001 energy management system.
- **Larger boilers subject to emission limit requirements**, revised particulate matter (PM) requirements so that combustion of low sulfur oil\* by new oil-fired boilers is considered an alternative method of meeting the PM emission standard and that such units are not required to meet the PM emission limit.
  - ✦ < .5 weight percent sulfur content requirements

## For Additional Information

10

- Susan Lancey – 617-918-1656 lancey.susan @epa.gov
- George Frantz – 617-918-1883 [frantz.george@epa.gov](mailto:frantz.george@epa.gov)
- Mary Johnson – 919-541-5025 [johnson.mary@epa.gov](mailto:johnson.mary@epa.gov)
- <http://www.epa.gov/boilercompliance>