



Kansas Department of Health and Environment – Bureau of Air
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**Industrial, Commercial, and Institutional Boilers located at an area source of HAPS
 40 CFR Part 63, Subpart JJJJJ**

New Boilers - commenced construction or reconstruction after June 4, 2010 ¹					
Heat capacity	Subcategory	Requirements Tables 1 and 2	Performance Testing Tables 4 and 5	Notification and Report Submission	Other Requirements
Large ²	Coal (not limited-use boilers)	<ul style="list-style-type: none"> Numeric emission limits for Hg, CO, and PM (Table 1) Fuel analyses (Table 5 and §63.11213) 	Show initial compliance w/in 180 days after startup	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) Annual report 	<ul style="list-style-type: none"> Minimize startup and shutdown periods and conduct according to manufacturer's recommended procedures Operating limits in Tables 3 and 6 Stack tests and procedures §63.11212 Continuous compliance §63.11222 or §63.11223
	Biomass and Oil (not limited-use and not seasonal boilers)	<ul style="list-style-type: none"> Numeric emission limit for PM⁴ Tune-up every other yr, or every 5 yrs if using O₂ trim system 			
Small ³	Coal, Biomass, and Oil (> 5MMBtu/hr)	<ul style="list-style-type: none"> Tune-up every other yr, or every 5 yrs if using O₂ trim system 	NA	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) 2- or 5-year report 	<ul style="list-style-type: none"> Continuous compliance §63.11223
≤ 5 MMBtu/hr	Oil	<ul style="list-style-type: none"> Tune-up every 5 years 	NA NA	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) 5-year report 	<ul style="list-style-type: none"> Continuous compliance §63.11223 Limited use - keep copy of fed enforceable permit and records of fuel use Seasonal - keep records of days of operation per year
Either	Seasonal and limited-use boilers				
	Gas (all types)	<ul style="list-style-type: none"> None (NA to rule) 	NA	NA	NA

¹A new or reconstructed dual-fuel gas-fired boiler that meets the applicability requirements of subpart JJJJJ after June 4, 2010 due to a fuel switch from gaseous fuel to solid fossil fuel, biomass, or liquid fuel is considered to be a new source.

²Large – heat capacity is greater than or equal (≥) to 10 MMBtu/hr.

³Small – heat capacity is less than (<) to 10 MMBtu/hr.

⁴New oil-fired boilers that combust only oil with no more than 0.50 wt % sulfur or a mixture of 0.50 wt % sulfur oil with other fuels are not subject to a PM emission limit and that do not use a post-combustion technology (except a wet scrubber) to reduce PM or SO₂ emissions are not subject to the PM emission limit (monitor and record monthly the type of fuel combusted).

This page reflects rules in effect on February 1, 2013, updated sheets can be found at:

<http://www.kdheks.gov/air-permit/download.html>



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 40 CFR Part 63, Subpart JJJJJ**

Existing Boilers - commenced construction or reconstruction on or before June 4, 2010 ¹					
Heat capacity	Subcategory	Requirements Tables 1 and 2	Performance Testing Tables 4 and 5	Notification and Report Submission	Other Requirements
Large ²	Coal (not limited-use boilers)	<ul style="list-style-type: none"> Numeric emission limits for Hg and CO (Table 1) One-time energy assessment Fuel analyses (Table 5 and §63.11213) 	Show initial compliance w/in 180 days after compliance date (3/21/14)	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) Annual report 	<ul style="list-style-type: none"> Minimize startup and shutdown periods and conduct according to manufacturer's recommended procedures Operating limits in Tables 3 and 6 Stack tests and procedures §63.11212 Continuous compliance §63.11222
	Biomass and Oil (not limited-use boilers)	<ul style="list-style-type: none"> Tune-up initially and every other year or every 5 years⁴ One-time energy assessment 	NA	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) 2- or 5-year report 	<ul style="list-style-type: none"> Continuous compliance §63.11223
Small ³	Coal, Biomass, and Oil (> 5MMBtu/hr)	<ul style="list-style-type: none"> Tune-up initially and every other year or every 5 years⁴ 	NA	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) 5-year report 	<ul style="list-style-type: none"> Continuous compliance §63.11223 Limited use - keep copy of fed enforceable permit and records of fuel use Seasonal - keep records of days of operation per year
≤ 5 MMBtu/hr	Oil	<ul style="list-style-type: none"> Tune-up initially and every 5 years 	NA	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) 5-year report 	<ul style="list-style-type: none"> Continuous compliance §63.11223 Limited use - keep copy of fed enforceable permit and records of fuel use Seasonal - keep records of days of operation per year
Either	Seasonal and limited-use	<ul style="list-style-type: none"> Tune-up initially and every 5 years 	NA	<ul style="list-style-type: none"> Initial notification Notification of compliance status (electronic) 5-year report 	<ul style="list-style-type: none"> Continuous compliance §63.11223 Limited use - keep copy of fed enforceable permit and records of fuel use Seasonal - keep records of days of operation per year
	Gas (all types)	<ul style="list-style-type: none"> None (NA to rule) 	NA	NA	NA

¹An existing dual-fired boiler meeting the definition of gas-fired boiler that meets the applicability requirements of subpart JJJJJ after June 4, 2010 due to a fuel switch from gaseous fuel to solid fossil fuel, biomass, or liquid fuel is considered to be an existing source under this rule as long as the boiler was designed to accommodate the alternate fuel.

²Large – heat capacity is greater than or equal (≥) to 10 MMBtu/hr.

³Small – heat capacity is less than (<) to 10 MMBtu/hr.

⁴If boiler uses an oxygen trim system that maintains an optimum air-to-fuel ratio, then tune every 5 years.

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