

REQUIRED EMISSIONS LIMITS AND WORK PRACTICES FOR AREA SOURCE BOILERS



► **OIL** - Includes any boiler that burns any liquid fuel and is not in either the biomass or coal subcategories.

Subcategory	Hg, lb/TBTU	CO, ppm @ 7% O ₂	PM lb/MMBTU	Conduct Tune-Up Every Other Year	Conduct One-Time Energy Assessment
Small Existing Boiler (<10 MMBTU/hr)	-	-	-	Yes	No
Small New Boiler (<10 MMBTU/hr)	-	-	-	Yes	No
Large Existing Boiler	-	-	-	Yes	Yes
Large New Boiler	-	-	0.03	Yes	No

► **BIOMASS** - Includes any boiler that burns at least 15 percent biomass on an annual heat input basis.

Subcategory	Hg, lb/TBTU	CO, ppm @ 7% O ₂	PM lb/MMBTU	Conduct Tune-Up Every Other Year	Conduct One-Time Energy Assessment
Small Existing Boiler (<10 MMBTU/hr)	-	-	-	Yes	No
Small New Boiler (<10 MMBTU/hr)	-	-	-	Yes	No
Large Existing Boiler	-	-	-	Yes	Yes
Large New Boiler	-	-	0.03 (≥30 MMBTU/hr) 0.42 (≥10 to <30 MMBTU/hr)	Yes	No

► **COAL** - Includes any boiler that burns any solid fossil fuel and no more than 15 percent biomass on an annual heat input basis.

Subcategory	Hg, lb/TBTU	CO, ppm @ 7% O ₂	PM lb/MMBTU	Conduct Tune-Up Every Other Year	Conduct One-Time Energy Assessment
Small Existing Boiler (<10 MMBTU/hr)	-	-	-	Yes	No
Small New Boiler (<10 MMBTU/hr)	-	-	-	Yes	No
Large Existing Boiler	4.8	400	-	No	Yes
Large New Boiler	4.8	400	0.03 (≥30 MMBTU/hr) 0.42 (≥10 to <30 MMBTU/hr)	No	No

► **NATURAL GAS** - Includes any boiler that burns gaseous fuels, including: natural gas, process gas, landfill gas, coal-derived gas, refinery gas, hydrogen, or biogas, not combined with any solid fuels. If a unit burns liquid fuel (e.g., oil) only during periods of gas curtailment, gas supply emergencies, or periodic testing, it may still be considered a gas-fired boiler. Periodic burning of a liquid fuel shall not exceed a combined total of 48 hours during any calendar year in order to maintain status as a gas-fired boiler. Boilers should be individually metered for fuel quantity and run time if a liquid backup fuel is used, in order to prove applicability of the gas-fired subcategory.

Subcategory	Hg, lb/TBTU	CO, ppm @ 7% O ₂	PM lb/MMBTU	Conduct Tune-Up Every Other Year	Conduct One-Time Energy Assessment
Small Existing Boiler (<10 MMBTU/hr)	-	-	-	No	No
Small New Boiler (<10 MMBTU/hr)	-	-	-	No	No
Large Existing Boiler	-	-	-	No	No
Large New Boiler	-	-	-	No	No

KEY

- **Fuel Subcategory:** If you are not sure which fuel subcategory applies to your boiler, use the Fuel Subcategory Calculation Tool at <http://cleaverbrooks.com/Reference-Center/EPA-Compliance/Step-2/Step-2.aspx> to conduct an annual heat input fuel calculation.
- **Boiler Size:** Boiler size is expressed in terms of rated design heat input capacity and is measured in million British thermal units per hour, or MMBTU/hr. A boiler is considered "small" if its input is <10 MMBTU/hr.
- **New vs. Existing:** A boiler is considered "New" by EPA standards if you contracted to purchase it or have it rebuilt after June 4, 2010.

For more information about Area Source Rule Requirements, including boiler classification, visit the Cleaver-Brooks website at <http://cleaverbrooks.com/Reference-Center/EPA-Compliance/Index.aspx> or call your local Cleaver-Brooks representative at <http://cleaverbrooks.com/Find-a-Rep/Index.aspx>.

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