

Emission Limitations for New Major Source Boiler MACT

40 CFR Part 63, Subpart DDDDD • Summary of Emission Limitations for New Sources

Subcategory ^(a)	Mercury (Hg)	Hydrochloric Acid (HCl)	Carbon Monoxide (CO) at 3% Oxygen (O ₂)		Particulate Matter (PM) OR Total Selected Metals ^(f) (TSM)	
			Stack Test ^(c)	CEMS ^(d)	PM	TSM
	lb/MMBtu ^(b)	lb/MMBtu ^(b)	ppm ^(e)		lb/MMBtu ^(b)	
New Small Units	-	-	-	-	-	-
New Large Pulverized Coal	8.00E-06	2.20E-02	130	320	1.10E-03	2.30E-05
New Large Coal-fired Stoker	8.00E-06	2.20E-02	130	340	1.10E-03	2.30E-05
New Large Coal-fired Fluidized Bed	8.00E-06	2.20E-02	130	230	1.10E-03	2.30E-05
New Large Coal-fired Fluidized Bed with Integrated Heat Exchanger	8.00E-06	2.20E-02	140	150	1.10E-03	2.30E-05
New Large Wet Biomass Stoker	8.00E-06	2.20E-02	620	390	3.00E-02	2.60E-05
New Large Kiln-dried Biomass Stoker	8.00E-06	2.20E-02	460	-	3.00E-02	4.00E-03
New Large Biomass Fluidized Bed	8.00E-06	2.20E-02	230	310	9.80E-03	8.30E-05
New Large Biomass Suspension Burner	8.00E-06	2.20E-02	2,400	2,000	3.00E-02	6.50E-03
New Large Biomass Dutch Oven/Pile Burner	8.00E-06	2.20E-02	330	520	3.20E-03	3.90E-05
New Large Biomass Fuel Cell	8.00E-06	2.20E-02	910	-	2.00E-02	2.90E-05
New Large Biomass Hybrid Suspension Grate	8.00E-06	2.20E-02	1,100	900	2.60E-02	4.40E-04
New Large Heavy Liquid	4.80E-07	4.40E-04	130		1.30E-02	7.50E-05
New Large Light Liquid	4.80E-07	4.40E-04	130		1.10E-03	2.90E-05
New Large Liquid Non-continenta ^(g)	4.80E-07	4.40E-04	130		2.30E-02	8.60E-04
New Large Gas 2 Gases ^(h)	7.90E-06	1.70E-03	130		6.70E-03	2.10E-04

- (a) A small source has a rated heat input capacity of less than 10 MMBtu/hr. A large source has a rated heat input capacity of 10 MMBtu/hr or greater.
- (b) Pound per Million British Thermal Unit (lb/MMBtu).
- (c) Stack test 3-run average.
- (d) Continuous Emissions Monitoring System (CEMS) 30-day rolling average. To demonstrate compliance with the applicable alternative CO CEMS emission standard, you must install, certify, operate, and maintain a CO CEMS and an oxygen analyzer.
- (e) Parts Per Million (ppm).
- (f) Total Selected Metals (TSM) means the sum of the following metallic Hazardous Air Pollutants (HAP): arsenic, beryllium, cadmium, chromium, lead, manganese, nickel and selenium.
- (g) A non-continental unit means an industrial, commercial, or institutional boiler or process heater meeting the definition of the "unit designed to burn liquid" subcategory located in the State of Hawaii, the Virgin Islands, Guam, American Samoa, the Commonwealth of Puerto Rico, or the Northern Mariana Islands.
- (h) Gas 2 gases are gaseous fuels burned in combination with less than 10 percent solid fossil fuel, less than 10 percent biomass, and less than 10 percent liquid fuel on an annual heat input basis.