

Emission Limitations for Existing Major Source Boiler MACT

40 CFR Part 63, Subpart DDDDD • Summary of Emission Limitations for Existing 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)	
Existing Small Units	-	-	-	-	-	-
Existing Large Pulverized Coal	5.70E-06	2.20E-02	130	320	4.00E-02	5.30E-05
Existing Large Coal-fired Stoker	5.70E-06	2.20E-02	160	340	4.00E-02	5.30E-05
Existing Large Coal-fired Fluidized Bed	5.70E-06	2.20E-02	130	230	4.00E-02	5.30E-05
Existing Large Coal-fired Fluidized Bed with Integrated Heat Exchanger	-	-	-	-	-	-
Existing Large Wet Biomass Stoker	5.70E-06	2.20E-02	1,500	720	3.70E-02	2.40E-04
Existing Large Kiln-dried Biomass Stoker	5.70E-06	2.20E-02	460	-	3.20E-01	4.00E-03
Existing Large Biomass Fluidized Bed	5.70E-06	2.20E-02	470	310	1.10E-01	1.20E-03
Existing Large Biomass Suspension Burner	5.70E-06	2.20E-02	2,400	2,000	5.10E-02	6.50E-03
Existing Large Biomass Dutch Oven/Pile Burner	5.70E-06	2.20E-02	770	520	2.80E-01	2.00E-03
Existing Large Biomass Fuel Cell	5.70E-06	2.20E-02	1,100	-	2.00E-02	5.80E-03
Existing Large Biomass Hybrid Suspension Grate	5.70E-06	2.20E-02	2,800	900	4.40E-01	4.50E-04
Existing Large Heavy Liquid	2.00E-06	1.10E-03	130		6.20E-02	2.00E-04
Existing Large Light Liquid	2.00E-06	1.10E-03	130		7.90E-03	6.20E-05
Existing Large Liquid Non-continental ^(g)	2.00E-06	1.10E-03	130		2.70E-01	8.60E-04
Existing 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.