

Overview of NESHAP for Industrial, Commercial & Institutional Boilers & Process Heaters

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NESHAPs Overview

- “Boiler MACT” found at 40 CFR 63.7480 (Subpart DDDDD)
- Published in Federal Register on September 13, 2004
- Applies only to boilers and process heaters located at major HAP sources

Key Definitions

- Boiler - Enclosed device using controlled flame for the primary purpose of recovering heat in the form of steam or hot water (does not include waste heat boilers).
- Process Heater - Enclosed device using a controlled flame for the primary purpose of transferring heat indirectly to a process material (liquid, gas or solid).
 - Does NOT include units for comfort heat, space heat, food preparation for on-site combustion or autoclaves.
 - Combustion gases do not come into contact with the process materials

Key Definitions (cont'd)

- New or Reconstructed Unit – Units that commence construction or reconstruction after January 13, 2003.

Exemptions

- Municipal waste combustors (covered by NSPS AAAA, BBBB or Cb);
- Medical waste incinerators (covered by NSPS Ce or Ec);
- Electric utility steam generator > 25 MW that produces electricity for sale;
- Units required to have a permit under Section 3005 of the Solid Waste Disposal Act or covered by NESHAPs EEE;
- Solid waste incinerator covered by NSPS CCCC or DDDD;
- Recovery boilers of furnace covered by NSPS MM;
- R&D boilers or process heaters;
- Hot water heaters;
- Refining kettles covered by NESHAPs X;
- Ethylene cracking furnace covered by NESHAPs YY;
- Any other unit specifically listed under any other NESHAPs;
- Temporary boilers;
- Blast furnace gas fired boilers and process heaters.

Compliance Schedule

● Compliance Date –

- Existing sources = September 13, 2007
- New/Reconstructed sources = September 13, 2004 or at startup (whichever is later)

● Initial Notification – January 10, 2005

Emission Limits – New Sources

Subcategory	PM (lbs/MMBtu)	Selected Metals (lbs/MMBtu)	HCl (lbs/MMBtu)	Hg (lbs/MMBtu)	CO (ppm)
Solid Fuel, Large	0.025 or	0.0003	0.02	0.000003	400 @ 7% O ₂
Solid Fuel, Small	0.025 or	0.0003	0.02	0.000003	-
Solid Fuel, Limited	0.025 or	0.0003	0.02	0.000003	400 @ 7% O ₂
Liquid Fuel, Large	0.03	-	0.0005	-	400 @ 3% O ₂
Liquid Fuel, Small	0.03	-	0.0009	-	-
Liquid Fuel, Limited	0.03	-	0.0009	-	400 @ 3% O ₂
Gaseous Fuel, Large	-	-	-	-	400 @ 3% O ₂
Gaseous Fuel, Small	-	-	-	-	-
Gaseous Fuel, Limited	-	-	-	-	400 @ 3% O ₂

Emission Limits – Existing Sources

Subcategory	PM (lbs/MMBtu)	Selected Metals (lbs/MMBtu)	HCl (lbs/MMBtu)	Hg (lbs/MMBtu)	CO (ppm)
Solid Fuel, Large	0.07 or	0.001	0.09	0.000009	-
Solid Fuel, Small	-	-	-	-	-
Solid Fuel, Limited	0.21 or	0.004	-	-	-
Liquid Fuel, Large	-	-	-	-	-
Liquid Fuel, Small	-	-	-	-	-
Liquid Fuel, Limited	-	-	-	-	-
Gaseous Fuel, Large	-	-	-	-	-
Gaseous Fuel, Small	-	-	-	-	-
Gaseous Fuel, Limited	-	-	-	-	-

Other Key Points

- NO requirements for the following:
 - Existing small solid fuel units
 - Existing small liquid fuel units
 - Existing small gaseous fuel units
 - New small gaseous fuel units
- Only Initial Notification requirements for:
 - Existing large and limited use gaseous fuel units
 - Existing large and limited use liquid fuel units
 - New small liquid fuel units burning only gaseous fuels or distillate oil.