



# Industrial Boiler MACT Compliance Insights

Do you have a boiler or fired heater that burns coal or some other solid fuel? If the answer is yes, you may be subject to the United States Environmental Protection Agency's (USEPA's) Maximum Achievable Control Technology (MACT) Standard for Industrial, Commercial and Institutional Boilers and Process Heaters 40 CFR 63 Subpart DDDDD (the "Boiler MACT"). The regulation was published in the Federal Register in September 2004.

The regulation has many detailed nuances, but, in general, it regulates the emission of hydrogen chloride (HCl), particulate matter (PM), and mercury (Hg) from boilers and fired heaters. Compliance with the regulation is required by September 13, 2007 for existing units. New or modified units must comply immediately.

## How do I comply?

Certainly the easiest way to comply with the regulation is to stop burning solid fuels. However, this is not always possible or economical. Another method is to monitor the amount of chloride, mercury, and inorganic material in the fuel you are burning and only use those fuels that have quantities of these constituents that will meet the requirements. This also may not be practical or economical and it also reduces the flexibility of your power generation operation.

Another option is to install control equipment to monitor the emissions discharge of your boilers or fired heaters. Although this may require capital and increase your annual operating costs, it will provide you with:

- Legal Compliance with the Regulation
- Operational Flexibility
- Facility Air Permitting Flexibility

There are a number of different control technologies available that can meet the requirements of the regulation. These include both wet and dry options. The technology you choose will depend on a number of variables, some of which are:

- Required Control Efficiency
- Existing Control Equipment Performance
- Flue Gas Conditions and Regulated Emission Concentrations
- Wastewater Handling Capabilities
- Site Specific Cost Tradeoffs

Bionomic Industries experienced engineering team is fully capable of evaluating these important parameters to determine what options are available to economically bring your company safely within the MACT compliance regulations to avoid possible EPA problems.



To learn more about meeting the Industrial Boiler MACT Standards, please contact us at: