

Environmental ALERT

Annual Combustion Adjustment Requirements For Boilers

Beginning in year 2010, all facilities in New Jersey that operate boilers with a heat input of 5 million BTU/hr or greater, but less than 10 million BTU/hr (=>5MMBTU/hr-<10MMBTU/hr), shall begin annual combustion adjustment testing on their boilers as per the requirements of N.J.A.C. 7:27-19, "Control and Prohibition of Air Pollution from Oxides of Nitrogen (NO_x)". Combustion adjustment is to be done in the same quarter on an annual basis.

Combustion Adjustment Requirement:

Boilers 10 million BTU/hr or greater but less than 20 million BTU/hr (=>10MMBTU/hr-<20MMBTU/hr) became subject to the combustion adjustment requirements in 2008, and boilers with a heat capacity of 20 million BTU/hr or greater (=>20MMBTU/hr) were subjected to these requirements in 2007.

Annual adjustment of boilers requires cleaning and inspection of burners and ancillary equipment, adjustment of flame to manufacturer's specifications, and calibrating air to fuel ratio in order for the boilers to function properly. Concentrations of Oxides of Nitrogen (NO_x), Carbon Monoxide (CO) and Oxygen (O₂) are measured before and after the adjustment to calculate the NO_x and CO emission rates. Each adjustment needs to be recorded in a logbook or computer database and kept on record for five years.

Reporting Requirement:

The rule also requires that subject facilities submit an electronic report on the combustion ad-

justment results to the NJDEP as per the following schedule:

<i>Boiler Size</i>	<i>Reporting Year</i>
20 MMBTU/hr (approx. 500 BHP) or greater	2009
10-<20 MMBTU/hr (approx. 200-500 BHP)	2010
5-<10 MMBTU/hr (approx. 120-200 BHP)	2012

The boiler ratings in BHP vary between types of boilers and serve as an approximate range of the corresponding heat input. THE BOILER RATINGS IN BHP ARE NOT DEFINITIVE REGULATORY REQUIREMENTS AND SHOULD NOT BE REFERRED AS SUCH. Please check the boiler plate for maximum heat input in BTU per hour.

Report must be submitted online within 45 days after the completion of the combustion adjustment. Instructions on online report submittals are provided at the NJDEP's web page:
<http://www.nj.gov/dep/aqpp/adjustment.htm>

If you need more information please contact Sunita Dhar, Rich Cestone, or Rich Erickson at 800-879-6681.

