NEW SOURCE PERFORMANCE STANDARDS (NSPS)

BACKGROUND

The Federal New Source Performance Standards (NSPS) are technology-based standards applicable to new and modified stationary sources of regulated air emissions. The NSPS program sets uniform emission limitations for approximately 70 industrial source categories or sub-categories of sources. The purpose of the standards is to ensure that all state implementation programs meet these minimum requirements.

APPLICABILITY TO RUTGERS

These regulations apply to boilers installed or modified after June 9, 1989 that have a maximum design fuel input, equal to or greater than 10 MMBTU / hr but no greater than 100 MMBTU / hr. and also combustion turbines installed or modified after October 3, 1977 that have a maximum design fuel input equal to or greater than 10 MMBTU / hr but no greater than 100 MMBTU / hr. Based on this criteria, the following Rutgers equipment is covered by these regulations:

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Location</th>
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<tbody>
<tr>
<td>Foran Hall Blrs. #1 and #2</td>
<td>Cook Campus</td>
</tr>
<tr>
<td>CAFT Factory Process Boiler</td>
<td>Off Campus (Piscataway)</td>
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<tr>
<td>Busch Cogen Turbines #1, #2 and #3</td>
<td>Busch Campus</td>
</tr>
<tr>
<td>Busch Cogen Duct Burners #1, #2 and #3</td>
<td>Busch Campus</td>
</tr>
<tr>
<td>Newark Central Heat Blrs. #1, #2, and #3</td>
<td>Newark Campus</td>
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<tr>
<td>Camden Cogen Turbine</td>
<td>Camden Campus</td>
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SUMMARY of REQUIREMENTS

General Requirements (All equipment listed above):

A. Record daily fuel usage
B. Maintain records of occurrence and duration of any start-ups, shutdowns or malfunctions.
C. Maintain all records for 2 years

Additional Requirements for boilers combusting Fuel Oil (Newark Boilers only):

A. Oil must contain no greater than 0.5% Sulfur by weight
B. SO2 rate must be determined through fuel supplier certification with each delivery and / or lab analysis (depending on permit conditions)
C. Quarterly reports must be submitted to USEPA
Additional requirements for turbines (Busch and Camden Cogens only):

A. Must meet NSPS NOx standard (both cogen plant permit limits are already much lower than USEPA standard)
B. Sulfur content must not exceed 0.8% by weight
C. Fuel must be analyzed (according to schedule in permit) to determine Nitrogen and Sulfur content.
D. Water to fuel ratio must be monitored continuously
E. Continuous Emissions Monitoring systems must have no greater than 10% downtime compared to source run time, in each quarter.
F. RATA test must be performed annually and submitted to USEPA
G. CGA test must be performed quarterly and submitted to USEPA (except during the quarter when RATA is done).

These requirements are abbreviated and for reference only. Please contact REHS to review specific location requirements.

NEW EQUIPMENT INSTALLATIONS

Please contact REHS (Rich Bankowski) concerning any new equipment to be installed with a fuel input rating above 10 MMBTU / hr.