1. Name of Company:  
   
   (As shown on Line 1 of Form E001)

2. Equipment Name:  
   
   (As shown on Line 10 of Form E001)

3. Percent excess air used in fuel burning (make allowances for leaks around doors and other openings): ______________

4. Type of Fuel (file Form E110 for each fuel used): ____________________________________________

5. Source of Emission Factors: ____________________________________________________________

6. Uncontrolled Particulate Emission Rate:

   Particulate Emission Factor:  
   ________________________________  
   (lbs/ton; lbs/10^3 gal; lbs/10^6 ft^3) 

   \[
   \text{Maximum Fuel Consumption Rate} \times \text{Particulate Emission Factor} = \text{Uncontrolled Particulate Emission Rate} \text{ Lbs/hr}
   \]

   Maximum Fuel Consumption Rate:  
   (tons/hr; gal/hr; ft^3/hr) 

7. Uncontrolled Sulfur Oxide (SO\textsubscript{x}) Emission Rate:

   SO\textsubscript{x} Emission Factor:  
   ________________________________  
   Lbs/ton; lbs/10^3 gal; lbs/10^6 ft^3 

   \[
   \text{Maximum Fuel Consumption Rate} \times \text{SO\textsubscript{x} Emission Factor} = \text{Uncontrolled SO\textsubscript{x} Emission Rate} \text{ Lbs/hr}
   \]

   Maximum Fuel Consumption Rate:  
   (tons/hr; gal/hr; ft^3/hr) 

8. Uncontrolled Hydrocarbon (HC) Emission Rate:

   HC Emission Factor:  
   ________________________________  
   Lbs/ton; lbs/10^3 gal; lbs/10^6 ft^3 

   \[
   \text{Maximum Fuel Consumption Rate} \times \text{HC Emission Factor} = \text{Uncontrolled HC Emission Rate} \text{ Lbs/hr}
   \]

   Maximum Fuel Consumption Rate:  
   (tons/hr; gal/hr; ft^3/hr) 

9. Uncontrolled Nitrogen Oxides (NO\textsubscript{x}) Emission Rate:

   A. NO\textsubscript{x} Emission Factor:  
      ________________________________  
      Lbs/ton; lbs/10^3 gal; lbs/10^6 ft^3 

   B. \[
   \text{Maximum Fuel Consumption Rate} \times \text{NO\textsubscript{x} Emission Factor} = \text{Uncontrolled NO\textsubscript{x} Emission Rate} \text{ Lbs/hr}
   \]

   Maximum Fuel Consumption Rate:  
   (tons/hr; gal/hr; ft^3/hr)
10. NOx Emission Rate in PPM by Volume at STP:

Cubic feet per hour (CFH) of Exhaust Gases at 15% Excess Air:

A. \[ \frac{V \times X}{\text{Maximum Fuel Consumption Rate \ 10^6 BTU/hr}} \times \text{Exhaust Rate} = \text{CFH} \]

B. \[ \frac{\text{Uncontrolled NOx (Item 9B)}}{\text{CFH of Exhaust Gas (Item 10A)}} \div \text{Lbs/hr} = \text{Lb/ft}^3 \text{ NOx} \]

C. \[ \frac{\text{PPM} = (8.37 \times 10^6) \times \text{Lb/ft}^3 \text{ NOx (Item 10B)}}{\text{PPM at STP and 15% Excess Air (NOx calculated as NO2)}} \]

Table A

<table>
<thead>
<tr>
<th>Fuel</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bituminous Coal</td>
<td>11700</td>
</tr>
<tr>
<td>Fuel Oil</td>
<td>11400</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>11200</td>
</tr>
<tr>
<td>Wood</td>
<td>12800</td>
</tr>
</tbody>
</table>

This is to certify that I am familiar with the operations concerning this equipment and that the information provided on this application is true and complete to the best of my knowledge. This form must be completely filled out before it will be acceptable.

Mail to:
CHATTANOOGA-HAMILTON COUNTY AIR PULLOUTION CONTROL BUREAU
6125 Preservation Drive
Chattanooga, TN 37416

Company Official
Title
Date

Engineer Approval

This form corresponds to permit number:

Special Notations: