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

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

3. Equipment Data:
   Manufacturer of Equipment: 
   Model Number: 
   Date of Manufacture: Date of Installation: Equip. Cost: 

4. Emissions Data:
   A. Contaminants to be removed from carrier gas stream and the corresponding concentrations:

<table>
<thead>
<tr>
<th>Air Contaminant</th>
<th>Concentration of Contaminant at Standard Conditions – Check Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm</td>
</tr>
</tbody>
</table>

   B. Carrier Gas: Air Other (Specify): 
   C. Inlet Gas Conditions:
      a. Flow Rate: Ft³/min Standard Conditions Actual Inlet Conditions
      b. Conditions of gas stream at absorption device inlet:
         Temperature: °F Pressure: In. Hg
         Moisture Content: %

5. Absorbing Medium Data:
   A. Absorbing Medium: Water Other (Specify): 
   B. Flow Rate: Lbs/hr 
   C. Conditions: Temperature: °F Pressure: In. Hg

6. Emissions Data:
   Concentration of air contaminants in absorber (i.e. liquid phase) at inlet:
<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Concentration (% by wt.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>%</td>
</tr>
</tbody>
</table>

7. Packed Tower Data:
   A. Packing Information:
      Type of Packing: Raschig Rings Berl Saddles Spiral Rings Spheres Other (Specify): 
   B. Dimensions of Packing:
      Size: Units: Dimension: 
   C. Height of Absorbing Tower: Ft 
   D. Inside Diameter of Tower: Ft 
   E. Absorbing Mechanism: Concurrent Countercurrent Crosscurrent
8. Plate Tower Information:
   A. Type of Plates (Give brief description including type of valves or openings through plate:)
      
   B. Size of Plates: Size: _______ Units: _______ Dimension: _______
   C. Number of Openings per square foot: _______
   D. Number of Plates is Absorbing Tower: _______
   E. Height of Tower: _______
   F. Diameter of Plates in Absorbing Tower: _______ Ft
   G. Depth of Absorber on Plates: _______ In

9. Spray Scrubber Information:
   A. Type of Scrubber: _______ (e.g. venturi)
   B. Absorber Velocity Leaving Spray Nozzle(s): _______ Ft/sec
   C. Exit Diameter of Individual Spray Nozzle(s): _______ In
   D. Number of Spray Nozzles: _______ (For spray plates, give number of openings/ft² and size of plate.)
   E. Diameter of Spray Chamber: _______ Ft
   F. Length of Spray Chamber: _______ Ft
   G. Number of Spray Chambers: _______
   H. [ ] Concurrent Flow  [ ] Countercurrent Flow  [ ] Crosscurrent Flow
   I. Type of Entrainment (Describe): __________________________

10. Additional Information (Complete for all types of Absorbers):
    A. Exit Gas Conditions: Temperature: _______ °F  Pressure: _______ In. Hg
    B. Type of Demister (if any):
    C. Absorber Stream Exit Conditions (liquid phase): Temperature: _______ °F  Pressure: _______ In. Hg
    D. Efficiency of Absorption Device:
       Contaminant  Efficiency (% by wt.)
       __________________________________________
       __________________________________________
       __________________________________________
       __________________________________________
       Check One:
       [ ] Efficiency based on Stack Test (Submit Report)
       [ ] Estimated Efficiency
       [ ] Manufacturer’s rated efficiency

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 Pollution Control Bureau
6125 Preservation Drive
Chattanooga, TN 37416

Company Official: __________________________
Title: __________________________
Date: __________________________

DO NOT WRITE BELOW THIS LINE

[ ] Engineer Approval  This form corresponds to permit number: __________________________

Special Notations: __________________________
______________________________