ABSORTION DEVICE INFORMATION

(Gas Absorption, Towers, Venturi Scrubbers, Etc.)

| 1. | Name of Company: | |
|----|--|--|
| 2 | (As shown on Line 1 of Form E001) | |
| 2. | Name of Equipment: (As shown on Line 10 of Form E001) | |
| 3. | Equipment Data: Model Number: Manufacturer of Equipment: Date of Installation: Date of Manufacture: Date of Installation: | |
| 4. | Emissions Data: A. Contaminants to be removed from carrier gas stream and the corresponding concentrations: Air Contaminant Concentration of Contaminant at Standard Conditions – Check Units | |
| 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: Contaminant Concentration (% by wt.) | |
| 7. | Packed Tower Data: A. Packing Information: Type of Packing: Raschig Rings 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 | |

FORM E113

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| В. | Size of Plates: Size: | Units: | | Dimension: | | | | |
|---------|---|-----------|---------|--|--|--|--|--|
| C. | Number of Openings per square foot: | | | | | | | |
| D. E | Number of Plates is Absorbing Tower: | | | | | | | |
| E. F | Diameter of Plates in Absorbing Tower | | Ft | | | | | |
| G. | Depth of Absorber on Plates: | | In | | | | | |
| Spr | Spray Scrubber Information: | | | | | | | |
| A. | Type of Scrubber: | | | | | | | |
| В. | 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/ft ² 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): | | | | | | | |
| Ad | Additional Information (Complete for all types of Absorbers): | | | | | | | |
| A. P | Type of Domistor (if any): | | Г | riessure III. Hg | | | | |
| Б. С | Absorber Stream Exit Conditions (liquid n | hase)· T | emperat | ture: °F Pressure: In Ha | | | | |
| D. | Efficiency of Absorption Device: | 11d5C). 1 | empera | in in instance in ing | | | | |
| ν. | Contaminant Efficiency (% | by wt.) | | | | | | |
| | | 5 | | Check One: | | | | |
| | | | | Efficiency based on Stack Test (Submit Report) | | | | |
| | | | | Estimated Efficiency | | | | |
| | | | | Manufacturer's rated efficiency | | | | |
| | | | | | | | | |

| Mail to: Chattanooga-Hamilton County Air Pollution Control Bureau 2034 Hamilton Place Blvd. Suite 300 Chattanooga, TN 37421 | Company Official: Title: Date: | | | | | | | | |
|---|--------------------------------------|--|--|--|--|--|--|--|--|
| DO NOT WRITE BELOW THIS LINE | | | | | | | | | |
| Engineer Approval This form corresponds to permit number: | | | | | | | | | |
| Special Notations: | | | | | | | | | |

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