**Texas Commission on Environmental Quality**

**Table 13**

**Scrubbers or Wet Washers**

| **General Information** | | | |
| --- | --- | --- | --- |
| Emission Point No. *(from Flow Diagram):* | | | |
| Manufacturer: | | | |
| Model No. *(if available)*: | | | |
| Name of Abatement Device: | | | |
| Type of Air Contaminant Controlled: | | | |
| **Gas Stream Characteristics** | | | |
| **Flow Rate (acfm)** | | | |
| Design Maximum: | | Average Expected: | |
| **Gas Stream Temperature (°F)** | | | |
| Inlet: | | Outlet: | |
| **Particulate Grain Loading (grain/scf)** | | | |
| Inlet: | | Outlet: | |
| **Particulate Distribution *(by weight)*** | | | |
| **Micron Range** | **Inlet (%)** | | **Outlet (%)** |
| 0.0 - 0.1 |  | |  |
| 0.1 - 3.0 |  | |  |
| 3.0 - 5.0 |  | |  |
| 5 - 10 |  | |  |
| 10 - 20 |  | |  |
| Over 20 |  | |  |
| **Scrubbing Liquid Characteristics** | | | |
| Scrubbing Liquid | | | |
| Composition | | Weight % | |
|  | |  | |
|  | |  | |
|  | |  | |
|  | |  | |
| Liquid Injection Rate | | | |
| Design Maximum (gpm): | | Average Expected (gpm): | |
| Pressure at Spray Nozzle (psia): | | Pressure Drop Through Scrubber (inches H2O): | |
| Type of Scrubber:  Spray Chamber  Orifice  Venturi  Cyclone  Mechanical  Packed Tower Type | | | |

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**Table 13**

**Scrubbers or Wet Washers**

| **Scrubbing Liquid Characteristics *(continued)*** | |
| --- | --- |
| Data for Venturi Scrubber | |
| Throat Dimensions *(specify units)*: | Throat Velocity (ft/sec): |
| Data for Packed Towers | |
| Type of Packing: | Superficial Gas Velocity Through Bed: |
| Capital Installed Cost: | |
| Annual Operating Cost: | |
| **On a separate sheets attach the following:** | |
| Details regarding principle of operation | |
| An assembly drawing (front and top view) of the abatement device dimensioned and to scale clearly showing the design, size, and shape. | |
| If the device has bypasses, safety valves, etc., include in drawing and specify when such bypasses are to be used and under what conditions. | |