**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. |