**Texas Commission on Environmental Quality**

**Table 12**

**Electrostatic Precipitators**

| Emission Point No. *(from flow diagram)*: | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Manufacturer: | | | | Model No. *(if available)*: | | | |
| Name of Abatement Device: | | | | Type of Particulate Controlled: | | | |
| **Gas Stream Characteristics** | | | | | | | |
| **Flow Rate (acfm)** | | | **Gas Stream Temperature (°F)** | | **Particulate Grain Loading (grain/scf)** | | |
| Design Maximum: | Average Expected: | |  | | Inlet: | | Outlet: |
| Pressure Drop (in. H2O): | | | | | | | |
| Water Vapor Content of Effluent Stream (lb water/lb dry air): | | | | | | | |
| Fan Requirement (hp): | | | | Fan Requirement (ft3/min): | | | |
| **Particulate Distribution *(by weight)*** | | | | | | | |
| **Micron Range** | | **Inlet** | | | | **Outlet** | |
| 0.0-0.5 | | % | | | | % | |
| 0.5-1.0 | | % | | | | % | |
| 1.0-5.0 | | % | | | | % | |
| 5-10 | | % | | | | % | |
| 10-20 | | % | | | | % | |
| over 20 | | % | | | | % | |
| **Precipitator Characteristics** | | | | | | | |
| No. of Stages: | | | | No. of Plates: | | | |
| Plate Spacing: | | | | No. of Discharge Electrodes: | | | |
| Spacing Between Electrodes and Plates: | | | | Length of Plates (ft.): | | | |
| Width of Plates: | | | | Potential Applied (KV/in): | | | |

**Texas Commission on Environmental Quality**

**Table 12**

**Electrostatic Precipitators**

| **Precipitator Characteristics *(continued)*** | |
| --- | --- |
| Cross-Sectional Area of Precipitator (ft.2): | Cross-Sectional of Inlet Duct (ft.2): |
| Precipitator Volume (ft.): | Residence Time in Precipitator (sec.): |
| Select Type of Collecting Electrode:  Tubular  Plate Other (Specify): | |
| Method of frequency of dust removed from collection hopper: | |
|  | |
| Describe frequency and type of rapping employed: | |
|  | |
| **Additional Information** | |
| On separate sheets attach the following: | |
| 1. Details regarding principle of operation. | |
| 1. 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 those in the drawing and specify when such bypasses are to be used and under what conditions. | |