| **FORM 5** | **MDEQ** | **MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT** |
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| **Electrostatic Precipitators (ESP)** | **Section L6** |
| **1.** | **Electrostatic Precipitator Description** |
|  |  |
|  | A. | Emission Point Designation (Ref. No.): |       |  |
|  |  |
|  | B. | Equipment Description (include the process(es) that ESP controls emissions from): |  |
|  |  |       |  |
|  |  |  |
|  |  |
|  | C. | Manufacturer: |       | D. | Model: |       |  |
|  |  |  |
|  | E. | Status: | [ ]  | Operating | [ ]  | Proposed | [ ]  | Under Construction |
|  |  |
|  |  |
| **2.** | **Electrostatic Precipitator Data** |
|  |  |
|  | A. | Precipitator Type: | [ ]  | Wet | [ ]  | Dry | [ ]  | Single-stage |
|  |  |  |
|  |  | [ ]  | Two-stage | [ ]  | Other: |       |  |
|  |  |
|  | B. | Efficiency: |       | % | Controlling the following pollutant(s): |       |  |
|  |  |
|  | C. | Inlet air flow rate: |       | acfm |
|  |  |
|  | D. | Pressure Drop: |       | in. of H2O |
|  |  |
|  | E. | Inlet Temperature: |       | oF |
|  |  |
|  | F. | Total collection plate area: |       | ft2 |
|  |  |
|  | G. | Collector Plate Size: | Length: |  | ft | Width: |       | ft |
|  |  |
|  | H. | Gas Viscosity: |       | poise |
|  |  |
|  | I. | Pollutant Resistivity: |       | ohm-cm |
|  |  |
|  | J. | Field strength: | Charging: |       | volts | Collecting: |       | volts |
|  |  |
|  | K. | No. of fields: |       |  |
|  |  |
|  | L. | No. of collector plates per field: |       |  |
|  |  |
| **2.** | **Electrostatic Precipitator Data (continued)** |
|  |  |
|  | M. | Spacing between collector plates: |       | in. |
|  |  |
|  | N. | No. of compartments: |       |  |
|  |  |
|  | O. | No. of discharge electrodes: |       |  |
|  |  |
|  | P. | Corona Power: |       | watts/1000cfm |
|  |  |
|  | Q. | Electrical Usage: |       | kW/hr |
|  |  |
|  | R. | Cleaning Method: | [ ]  | Plate Rapping | [ ]  | Plate Vibrating | [ ]  | Washing |
|  |  |  |
|  |  | [ ]  | Other: |       |   |
|  |  |
|  | S. | Rapper Frequency: |       | min/cycle | [ ]  | Automatic | [ ]  | Manual |
|  |  |
|  | T. | Is flue gas conditioning required? | [ ]  | Yes | [ ]  | No |
|  |  |
|  | U. | Fan location relative to precipitator: | [ ]  | Upstream | [ ]  | Downstream |
|  |  |
|  | V. | How is the collected dust stored, handled, and disposed of?      |  |
|  |  |  |
|  |  |  |
|  |  |
|  | W. | List the electrical conditions per field: |  |
|  |  |  |  |
|  |  | FIELD NO. | VOLTAGE (kV) | AMPERAGE (mA) |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |       |       |       |  |
|  |  |
|  |  |