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| **FORM 5** | **MDEQ** | **MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT** |
| **Cyclones** | **Section L2** |
| **1.** | **Cyclone Description** |
|  |  |
|  | A. | Emission Point Designation (Ref. No.): |       |  |
|  |  |
|  | B. | Equipment Description (include the process(es) that the cyclone(s) controls emissions from): |  |
|  |  |       |  |
|  |  |  |
|  |  |
|  | C. | Manufacturer: |       | D. | Model: |       |  |
|  |  |  |
|  | E. | Status: | [ ]  | Operating | [ ]  | Proposed | [ ]  | Under Construction |
|  |  |
|  |  |
| **2.** | **Cyclone Data** |
|  |  |
|  | A. | Cyclone Type: |
|  |  |
|  |  | [ ]  | Conventional | [ ]  | High Efficiency | [ ]  | Multiclone | [ ]  | Other: |       |  |
|  |  |
|  | B. | Efficiency (PM): |       | % | C. | Gas Viscosity: |       | poise |
|  |  |
|  | D. | Pressure Drop: |       | in. H2O | E. | Inlet air flow rate: |       | acfm |
|  |  |
|  | F. | Pollutant particle diameter: |       | microns | G. | Baffles/Louvers? | [ ]  | Yes | [ ]  | No |
|  |  |
|  | H. | Cyclone Dimensions: |
|  |  |
|  |  | 1. | Inlet height: |       | ft | 2. | Inlet width: |       | ft |
|  |  | 3. | Cylinder diameter: |       | ft | 4. | Cylinder height: |       | ft |
|  |  | 5. | Cone height: |       | ft | 6. | Outlet pipe diameter: |       | ft |
|  |  | 7. | Dust exit diameter: |       | ft |  |  |  |  |
|  |  |
|  | I. | Is wet spray used? | [ ]  | Yes | [ ]  | No |
|  |  |
|  |  | 1. | No. of nozzles: |       |  |
|  |  | 2. | Liquid used: |       |  |
|  |  | 3. | Flow rate: |       | gpm |
|  |  | 4. | Make-up rate: |       | gpm |
|  |  |
|  | J. | Fan Location:  | [ ]  | Downstream (direct emissions) | [ ]  | Downstream (auxiliary stack) |
|  |  |  |  |  |  |  |
|  |  | [ ]  | Upstream (no cap/vertical emissions) | [ ]  | Upstream (fixed cap/diffuse emissions) |
|  |  |  |  |  |  |
|  |  | [ ]  | Upstream (wind respondent cap/horizontal emissions) |
|  |  |
|  | K. | How is the collected dust stored, handled, and disposed of?      |  |
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