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| **FORM 5** | **MDEQ** | **MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY APPLICATION FOR AIR POLLUTION CONTROL PERMIT** |
| **Fuel Burning Equipment – Internal Combustion Sources** | **Section D** |
| **1.** | **Emission Point Description** |
|  |  |  |
|  | A. | Emission Point Designation (Ref. No.): |       |  |
|  |  |
|  | B. | Equipment Description: |       |  |
|  |  |
|  | C. | Manufacturer: |       | D. | Model Yr. and No.: |       |  |
|  |  |
|  | E. | Maximum Heat Input (higher heating value): |       | MMBtu/hr |
|  |  |
|  | F. | Rated Power: |       | hp |       | kW |
|  |  |
|  | G. | Use: |[ ]  Non-emergency |[ ]  Emergency |
|  |  |
|  | **Complete H through Q for Reciprocating (Piston) Internal Combustion Engines** |
|  | H. | Displacement per cylinder: |[ ]  < 10 Liters |[ ]  10 to <30 Liters |[ ]  ≥ 30 Liters |
|  |  |
|  | I. | Engine Ignition Type: |[ ]  Spark Ignition |[ ]  Compression Ignition |
|  |  |  |
|  | J. | Engine Burn Type: |[ ]  4-stroke |[ ]  2-stroke |[ ]  Rich Burn |[ ]  Lean Burn |
|  |  | *(J. should be answered for Spark Ignition only)* |
|  | K. | Design Controls (e.g., catalytic converter, diesel particulate filter, SCR, etc.) |       |  |
|  |  |
|  | L. | Status: |[ ]  Operating |[ ]  Proposed |[ ]  Under Construction |
|  |  |
|  | M. | Engine manufactured or reconstructed date: |       | N. | Engine order date: |       |  |
|  |  |
|  | O. | Is the engine certified by EPA to meet the applicable emissions standards? |[ ]  Yes |[ ]  No |  |  |
|  | P. | If an emergency engine, can your engine be operated for Emergency Demand Response per the NERC Reliability Standard? |[ ]  Yes |[ ]  No |  |  |
|  | Q. | If an emergency engine, is it used for peak shaving or non-emergency demand response? |[ ]  Yes |[ ]  No |  |  |
|  |  |  |  |  |  |  |  |  |
|  | **Complete R through T for Stationary Gas Turbines** |
|  | R. | Turbine Type:  |[ ]  Simple Cycle |[ ]  Regenerative Cycle |[ ]  Combined Cycle |
|  |  |  |[ ]  Combined Heat and Power (Cogeneration) |  |  |
|  |  |  |
|  | S. | Controls: |[ ]  Water-Steam Injection |[ ]  Lean Premix |
|  |  |  |[ ]  Other Controls (SCR, oxidation catalyst, etc.):  |       |  |
|  |  |  |  |  |  |  |  |  |
|  | T. | Date of construction, reconstruction, or most recent modification (for existing sources) or date of anticipated construction: |       |  |
|  |  |
| **2.** | **Fuel Type** |
|  | Complete the following table, identifying each type of fuel and the amount used. Specify units of measurement. |  |
|  | FUEL TYPE | HEAT CONTENT | % SULFUR | % ASH | MAXIMUM HOURLY USAGE | MAXIMUM YEARLY USAGE |  |
|  |       |       |       |       |       |       |  |
|  |       |       |       |       |       |       |  |
|  |       |       |       |       |       |       |  |
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