**Texas Commission on Environmental Quality**

**Table 29 Reciprocating Engines**

| **I. Engine Data** |
| --- |
| Manufacturer: | Model No. | Serial No.  | Manufacture Date: |
|  |  |  |  |
| Rebuilds Date: | No. of Cylinders: | Compression Ratio: | EPN:  |
|  |  |  |  |
| **Application:** | [ ]  Gas Compression | [ ]  Electric Generation | [ ]  Refrigeration | [ ]  Emergency/Stand by |
| [ ]  4 Stroke Cycle | [ ]  2 Stroke Cycle | [ ]  Carbureted | [ ]  Spark Ignited | [ ]  Dual Fuel | [ ]  Fuel Injected |
| [ ]  Diesel | [ ]  Naturally Aspirated | [ ]  Blower /Pump Scavenged | [ ]  Turbo Charged and I.C. | [ ]  Turbo Charged |
| [ ]  Intercooled | [ ]  I.C. Water Temperature | [ ]  Lean Burn | [ ]  Rich Burn |
| **Ignition/Injection Timing:** | Fixed: | Variable: |
| Manufacture Horsepower Rating**:** | Proposed Horsepower Rating: |
| **Discharge Parameters** |
| **Stack Height (Feet)** | **Stack Diameter (Feet)** | **Stack Temperature (oF)** | **Exit Velocity (FPS)** |
|  |  |  |  |
| **II. Fuel Data** |
| Type of Fuel: | [ ]  Field Gas | [ ]  Landfill Gas | [ ]  LP Gas | [ ]  Natural Gas | [ ]  Digester Gas | [ ]  Diesel |
| Fuel Consumption (BTU/bhp-hr): | Higher Heating Value: | Lower Heating Value  |
| Sulfur Content (grains/100 scf - weight %):  |
| **III. Emission Factors (Before Control)** |
| **NOX** | **CO** | **SO2** | **VOC** | **Formaldehyde** | **PM10** |
| **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Source of Emission Factors: | [ ]  Manufacturer Data | [ ]  AP-42 | [ ]  Other (specify): |
| **IV. Emission Factors (Post Control)** |
| **NOX** | **CO** | **SO2** | **VOC** | **Formaldehyde** | **PM10** |
| **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** | **g/hp-hr** | **ppmv** |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Method of Emission Control: | [ ]  NSCR Catalyst | [ ]  Lean Operation | [ ]  Parameter Adjustment |
| [ ]  Stratified Charge | [ ]  JLCC Catalyst | [ ]  Other (Specify):  |
| ***Note:*** *Must submit a copy of any manufacturer control information that demonstrates control efficiency.* |
| Is Formaldehyde included in the VOCs? | [ ]  Yes [ ]  No |
| **V. Federal and State Standards (Check all that apply)** |
| [ ]  NSPS JJJJ | [ ]  MACT ZZZZ | [ ]  NSPS IIII | [ ]  Title 30 Chapter 117 - List County:  |
| **VI. Additional Information** |
| 1. Submit a copy of the engine manufacturer’s site rating or general rating specification data. 2. Submit a typical fuel gas analysis, including sulfur content and heating value. For gaseous fuels, provide mole percent of constituents. 3. Submit description of air/fuel ratio control system (manufacturer information is acceptable). |