# **Supplemental Application Form / Emission Control Plan**

# **Agricultural IC Engines – Compliance with Rule 4702 (8/19/21 amendments)**

Please complete one form for each engine.

### Note: This form must be accompanied by a completed Authority to Construct/Permit to Operate Application form

<http://www.valleyair.org/busind/pto/ptoforms/1ptoformidx.htm>

|  |  |  |  |
| --- | --- | --- | --- |
| FACILITY NAME: | | | FACILITY ID #: |
| PERMIT NUMBER: | | | |
| LOCATION(S) ENGINE OPERATED: | | | |
| **ENGINE DETAILS**  **AND USE** | Engine Manufacturer: | Engine Model: | |
| Engine Model Year (if known): | Engine Serial Number (if known): | |
| Engine Manufacturer’s Maximum Rated Power Output (per the data plate):         bhp | | |
| Engine Combustion Type:  Rich-Burn (Exhaust O2 < 4%)  Lean-Burn (Exhaust O2 ≥ 4%) | | |
| Is the Engine and/or Control Device Certified by:  EPA  CARB  District  Not Certified | | |
| Engine Certification Family Number/District Certification (if applicable): | | |
| Process the Engine Serves:  Well Pump  Booster Pump  Other (please specify): | | |
| Maximum Annual Operation Schedule (hours/year): | | |
| **FUEL DATA** | Fuel Type:  Natural Gas  LPG/Propane  Gasoline  Digester Gas  Other: | | |
| Sulfur Content:       gr/100 scf or       ppmv (gaseous fuel) or       % by weight (liquid fuel) | | |
| **HOUR METER** | Note: All engines are required to have either a nonresettable elapsed time meter or an alternate device, method, or technique, approved by the APCO, for determining elapsed operating time.  Equipped with a Nonresettable Elapsed Operating Time Meter  Alternate Method (please provide details): | | |
| **RULE 4702 COMPLIANCE METHOD** | **PLEASE INDICATE THE METHOD OF COMPLIANCE WITH RULE 4702:**  Note: See District Rule 4702 requirements for the engine at: <http://www.valleyair.org/rules/currntrules/r4702.pdf>  Currently in Compliance with Applicable Emission Limits and Requirements. No Modifications Required.  Modify Engine and/or Emission Controls to Comply with Section 5.2, Table 5 Emission Limits  Limit Engine Usage to 200 hour/year as a Low-Use Engine Pursuant to Sections 3.26 and 4.2  Designate Engine as an Emergency Standby Engine Pursuant to Sections 3.15 and 4.2  Other (please describe): | | |
| **EMISSIONS CONTROL EQUIPMENT** | Will there be any changes to the engine control equipment from what was previously provided?  Yes  No  If yes, please complete the section below. If no, proceed to the following section. | | |
| Automatic Air/Fuel Ratio or O2 Controller (no catalyst) - Manufacturer: | | |
| Three-Way Catalyst (i.e. Non-Selective Catalytic Reduction, NSCR) and Air/Fuel Ratio Controller Manufacturer:        Model: | | |
| Selective Catalytic Reduction (SCR) - Manufacturer:        Model:  Reagent:  Ammonia,  Urea,  Other:        , Reagent slip        ppmv @        % O2 | | |
| Other (please specify): | | |
| Control Efficiencies: NOx        %, CO        %, VOC        % | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EMISSIONS DATA** | Pollutants | Maximum Emissions with Control | | Source(s) of Emissions Data:  Engine Manufacturer’s Specifications  Catalyst Manufacturer’s Specifications  CARB/EPA Certification  SJVAPCD Certification  Current Permit  Emissions Source Test  Other:  **Provide documentation of all sources of emissions data** ­­ |
| ppmvd  (at 15% O2) | g/bhp-hr |
| Nitrogen Oxides (NOX) |  |  |
| Carbon Monoxide (CO) |  |  |
| Volatile Organic Compounds (VOC) |  |  |
| **RULE 4702 EMISSIONS MONITORING** | Agricultural IC engines equipped with a NOX control device that is not certified by EPA, CARB, or the District must:  Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier, and  Use a portable analyzer to take NOX, CO, and O2 concentration readings at least once every 24 months that the engine is operated  Agricultural IC Engines that are not equipped with a NOX control device or equipped with a NOX control device that is certified by EPA, CARB, or the District must:  Monitor the operational characteristics of each engine as recommended by the engine manufacturer or emission control system supplier  Note: Lean-burn IC engines that are not equipped with a control device may choose to periodically monitor exhaust O2 concentrations | | | |
| **INSPECTION & MONITORING (I&M)** | Will there be any changes to the Rule 4702 I&M plan previously submitted for the engine?  Yes  No | | | |
| Note: All IC engines, except agricultural IC engines that are certified by EPA, CARB, or the District, must submit an Inspection and Monitoring (I&M) plan for District approval that specifies all actions to be taken for the plan. If applicable, please provide additional documentation about the I&M plan and refer to Section 6.5 of Rule 4702 for details (see link in the previous section). | | | |
| **MAJOR SOURCES**  **ONLY IF REPLACING OR**  **MODIFYING A UNIT** | Is this facility an existing major source for any pollutant as defined in Rule 2201?  Yes  No  If yes, please complete the section below. If no, do not complete this section. | | | |
| Replaced/Modified Unit: Projected Actual Emissions in lb/year (Based on Expected Utilization in Next 5 Years):  NOX:      , PM10:      , VOC:      , SOX:  Attach Detailed Basis Used to Determine Projected Actual Emissions | | | |
| New/Modified Unit: Portion of Projected Actual Emissions that the Unit, unmodified, “Could Have Accommodated” during same period as Baseline Actual Emissions  NOX:      , PM10:      , VOC:      , SOX:  Attach Detailed Basis Used to Determine Projected Actual Emissions that the Unit “Could Have Accommodated | | | |
| Existing Unit: Baseline Actual Emissions in lb/year  (Average Annual Rate of Emissions During any 24-Month period in Previous 10 years)  NOX:      , PM10:      , VOC:      , SOX:  Attach Records of Historical Usage and Emissions Used in this Determination | | | |