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

# **Non-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>

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| --- | --- | --- | --- |
| FACILITY NAME: | | | FACILITY ID #: |
| PERMIT NUMBER: | | | |
| LOCATION(S) ENGINE OPERATED: | | | |
| **ENGINE DETAILS**  **AND USE** | Engine Manufacturer: | Engine Model: | |
| Engine Serial Number (if known): | | |
| Engine Manufacturer’s Maximum Rated Power Output (per the data plate):        bhp | | |
| Engine Certification Family Number (if applicable): | | |
| Engine Combustion Type:  Rich-Burn (Exhaust O2 < 4%)  Lean-Burn (Exhaust O2 ≥ 4%) | | |
| Process the Engine Serves: | | |
| Maximum Annual Operation Schedule (hours/year): | | |
| **FUEL DATA** | Fuel Type:  Natural Gas  LPG/Propane  Gasoline  Landfill Gas from a Municipal Landfill  Digester Gas from a Publically Owned Wastewater Facility 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 3 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?  Yes  No  If yes, please complete the section below. If no, proceed to the following section. | | |
| Automatic Air/Fuel Ratio or O2 Controller | | |
| Non-Selective Catalytic Reduction (NSCR) 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 of Emissions Data:  Emissions Source Test  Current Permit  Engine Manufacturer’s Specifications  Catalyst Manufacturer’s Specifications  CARB/EPA Certification  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** | Will there be any changes to the Rule 4702 emissions monitoring for the engine?  Yes  No  If yes, please complete the section below. If no, proceed to the following section. | | | |
| Category 1 - Engines equipped with an external control device  Category 2 - Engines with no external control device, but have a horsepower rating ≥ 1,000 bhp and are permitted to operate > 2,000 hours per year  Category 1/Category 2 engines must have either a Continuous Emissions Monitoring System (CEMS) or one of the following alternate emissions monitoring plans  CEMS, please specify all pollutants monitored:  NOX  CO  O2  Other:  Monitoring of NOX, CO, and O2 concentrations  Monitoring of catalyst inlet & outlet temperature, ammonia injection rate, and NOX, CO, & O2 concentrations  Other Alternate Monitoring Plan (approved on a case by case basis), please attach details  Category 3 - Engines not covered by Categories 1 or 2 above  Category 3 engines must monitor operational characteristics recommended by the engine manufacturer or emission control system supplier  Monitoring of exhaust O2 concentrations (used for lean-burn engines only)  Monitoring other operational characteristic (approved on a case by case basis), please attach details | | | |
| Note: See District policy (SSP-1810) for additional details of pre-approved alternate emissions monitoring plans, at: <http://www.valleyair.org/policies_per/Policies/SSP%201810.pdf> | | | |
| **INSPECTION & MONITORING (I&M)** | Will there be any changes to the Rule 4702 I&M Plan for the engine?  Yes  No | | | |
| Note: All full-time non-agricultural IC engines must submit for APCO approval, an Inspection and Monitoring (I&M) plan that specifies all actions to be taken for the plan. If there will be any changes to the I&M plan, please provide documentation with information 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 | | | |