# **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        % |

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| **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 yearCategory 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 aboveCategory 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  |