San Joaquin Valley AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

**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 $O_2$ < 4%) ☐ Lean-Burn (Exhaust $O_2 \geq 4\%$) | |
| | 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.<br>☐ Equipped with a Nonresettable Elapsed Operating Time Meter<br>☐ Alternate Method (please provide details): _____ | |
| **RULE 4702 COMPLIANCE METHOD** | **PLEASE INDICATE THE METHOD OF COMPLIANCE WITH RULE 4702:**<br>Note: See District Rule 4702 requirements for the engine at: http://www.valleyair.org/rules/currntrules/r4702.pdf<br>☐ Currently in Compliance with Applicable Emission Limits and Requirements. No Modifications Required.<br>☐ Modify Engine and/or Emission Controls to Comply with Section 5.2, Table 3 Emission Limits<br>☐ Limit Engine Usage to 200 hour/year as a Low-Use Engine Pursuant to Sections 3.26 and 4.2<br>☐ Designate Engine as an Emergency Standby Engine Pursuant to Sections 3.15 and 4.2<br>☐ Other (please describe): _____ | |
| **EMISSIONS CONTROL EQUIPMENT** | Will there be any changes to the engine control equipment from what was previously provided? ☐ Yes ☐ No<br>If yes, please complete the section below. If no, proceed to the following section. | |
| | ☐ Automatic Air/Fuel Ratio or $O_2$ Controller (no catalyst) - Manufacturer: _____ | |
| | ☐ Three-Way Catalyst (i.e. Non-Selective Catalytic Reduction, NSCR) and Air/Fuel Ratio Controller<br>Manufacturer: _____ Model: _____ | |
| | ☐ Selective Catalytic Reduction (SCR) - Manufacturer: _____ Model: _____<br>Reagent: ☐ Ammonia, ☐ Urea, ☐ Other: _____, Reagent slip _____ ppmv @ _____ % $O_2$ | |
| | ☐ Other (please specify): _____ | |
| | Control Efficiencies: $NO_x$ _____ %, CO _____ %, VOC _____ % | |


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4800 Enterprise Way
Modesto, CA 95356-8718
(209) 557-6400 * FAX (209) 557-6475

**Central Regional Office**
1990 E Gettysburg Avenue
Fresno, CA 93726-0244
(559) 230-5900 * FAX (559) 230-6061

**Southern Regional Office**
34946Flyover Court
Bakersfield, CA 93308-9725
(661) 392-5500 * FAX (661) 392-5585

**EMISSIONS DATA**

| Pollutants | Maximum Emissions with Control | |
|---|---|---|
| | ppmvd (at 15% $O_2$) | g/bhp-hr |
| Nitrogen Oxides ($NO_X$) | | |
| Carbon Monoxide (CO) | | |
| Volatile Organic Compounds (VOC) | | |

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**

**RULE 4702 EMISSIONS MONITORING**

Agricultural IC engines equipped with a $NO_X$ 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 $NO_X$, CO, and $O_2$ concentration readings at least once every 24 months that the engine is operated

Agricultural IC Engines that are not equipped with a $NO_X$ control device or equipped with a $NO_X$ 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 $O_2$ 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):
$NO_X$: , $PM_{10}$: , VOC: , $SO_X$:
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
$NO_X$: , $PM_{10}$: , VOC: , $SO_X$:
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)
$NO_X$: , $PM_{10}$: , VOC: , $SO_X$:
Attach Records of Historical Usage and Emissions Used in this Determination