San Joaquin Valley Air Pollution Control District

# Supplemental Application Form

#### **Emergency/Low-Use IC Engines**

Please complete one form for each engine.

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

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| Permit to be issued to:       |
| Location where the equipment will be operated:       |
| Installation date: |

## EQUIPMENT DESCRIPTION

|  |  |  |
| --- | --- | --- |
| Engine Details | Engine Manufacturer:       | Engine Tier Rating:        |
| Engine Model:       | Engine Year of Manufacture:       |
| Engine Serial Number:       |
| EPA Certification Family Number:  |  |  |  |  |  |  |  | **.** |  |  |  |  |  |
| Engine’s Type of Combustion: [ ]  Rich-Burn [ ]  Lean-Burn [ ]  4-Stroke [ ]  2-Stroke |
| Maximum Intermittent Brake Horsepower Rating of the Engine (per the Engine Data Plate): bhp |
| Engine’s Rated Power Output for the Process the Engine Serves:       bhp |
| Process Data | Process the Engine Serves:       |
| Electrical PowerGeneration Only | Generator Manufacturer:       | Model:       |
| Power Output:       kW |
| Will this equipment be used in an electric utility rate reduction program? [ ]  Yes [ ]  No |
| **Fuel Data** | Fuel Type: [ ]  Diesel [ ]  Natural Gas [ ]  LPG/Propane [ ]  Gasoline [ ]  Other:        |
| For “Other” fuels only: Higher Heating Value:       Btu/scf, or       Btu/gal, For “Other” fuels only: An Ultimate Fuel Analysis or the combustion F-Factor       dscf/MMBtu |
| Sulfur Content:       gr/100 scf (gaseous fuel) or       % by weight (liquid fuel) |
| Fuel Consumption at Maximum Rated Output:       gal/hr, or       scf/hr |
| **Rule 4702****Type of Use** | [ ]  **Emergency Standby** - Limited exclusively to power primary mechanical or an electrical generator during periods of unscheduled power outages beyond the control of the operator, and limited to 20 - 100 hr/yr (depending on the engine’s PM10 emission factor) for maintenance and testing operation.[ ]  This engine is specifically used to power a pump for a municipal water supply.[ ]  I request the higher opacity limit of 40% with the corresponding operational limits of 30 minutes per week and 2 hours per month for maintenance and testing. (CH&SC 41701.6)[ ]  I request the lower opacity limit of 20%.[ ]  This engine is specifically used to provide power at a health care facility. (CH&SC 1250)[ ]  This engine is subject to Office of Statewide Health Planning and Development (OSHPD) requirements.  |
| [ ]  **Special Case Emergency** - Limited exclusively to preserve or protect property, human life, or public health during a disaster or a state emergency (e.g. fire or flood) and limited to 20 - 100 hr/yr (depending on the engine’s PM10 emission factor) for maintenance and testing operation.[ ]  This engine is specifically used to power a direct-drive firewater pump.[ ]  This firewater pump engine is subject to National Fire Protection Association (NFPA) requirements. |
| [ ]  **Low Use** - Limited to ≤ 200 hr/yr of operation for **ALL** purposes combined, including maintenance and testing. |
| 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):        |

**EMISSIONS CONTROL**

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| --- | --- | --- |
| **Emissions Control Equipment**(Check all that apply) | [ ]  Positive Crankcase Ventilation System | [ ]  90% Efficient crankcase emission control device |
| [ ]  Turbocharger | [ ]  Intercooler/Aftercooler |
| [ ]  Automatic Air/Fuel Ratio or O2 Controller - Manufacturer:        |
| [ ]  Non-Selective Catalytic Reduction: Manufacturer:       Model:        |
| Control Efficiencies: NOX       %, SOX       %, PM10       %, CO       %, VOC       % |
| [ ]  Particulate Filter - Manufacturer:       Model:       Control Efficiency:       % |
| [ ]  Other (please specify):       |

**EMISSIONS DATA**

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| Note: See District BACT and District Rule 4702 requirements for applicability to proposed engine at <http://www.valleyair.org/busind/pto/bact/chapter3.pdf> and <http://www.valleyair.org/rules/currntrules/r4702.pdf>. |
| **Emissions Data** | Pollutant | **(g/bhp-hr)** | **(g/kW-hr)** | **(ppmvd)** |
| Nitrogen Oxides (NOx) |       |       |       |
| Volatile Organic Compounds (VOC) |       |       |       |
| NOx + NMHC |       |       |       |
| Particulate Matter (PM10) |       |       |       |
| Carbon Monoxide |       |       |       |
| % O2, dry basis, if corrected to other than 15%:       % |
| **Source of Data** | [ ]  Manufacturer’s Specifications [ ]  Emissions Source Test [ ]  CARB/EPA Certification [ ]  Other       **Note: please provide copies of all sources of emissions data.** |

## HEALTH RISK ASSESSMENT DATA

|  |  |
| --- | --- |
| Operating Hours | Maximum Operating Schedule:       hours per day, and       hours per year |
| **Receptor Data** | Distance to nearest Residence |        feet | Distance is measured from the proposed stack location to the nearest boundary of the nearest apartment, house, dormitory, etc. |
| Direction to nearest Residence |         | Direction from the stack to the receptor, i.e. Northeast or South. |
| Distance tonearest Business |        feet | Distance is measured from the proposed stack location to the nearest boundary of the nearest office building, factory, store, etc. |
| Direction to nearest Business |         | Direction from the stack to the receptor, i.e. North or Southwest. |
| **Stack Parameters*****\*Note: Stack parameters may be listed on the permit as enforceable permit conditions*** | Release Height*(See Note\*)* |        feet above grade |
| Stack Diameter*(See Note\*)* |        inches at point of release |
| Rain Cap*(See Note\*)* | [ ]  Flapper-type [ ]  Fixed-type [ ]  None [ ]  Other:        |
| Stack Orientation*(See Note\*)* | [ ]  Vertical [ ]  Horizontal [ ]  Other:      ° from vert. or       ° from horiz. |
| **Exhaust Data** | Flowrate:       acfm | Temperature:       °F |
| **Transportable** | Is this engine transportable? [ ]  Yes [ ]  No  |
| **Facility Location** | [ ]  Urban (area of dense population) [ ]  Rural (area of sparse population) |