



YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT

1947 Galileo Court, Suite 103; Davis, CA 95618
Phone - (530) 757-3650 Fax - (530) 757-3670

**INTERNAL COMBUSTION ENGINES (Reciprocating)
APPLICATION INSTRUCTIONS AND SUPPLEMENTAL FORM 310**

For operation of Internal Combustion Engines, please submit this completed form with an Authority to Construct (ATC) application form and the applicable filing fees. The filing fees for an initial ATC or for a modification of an engine which already has a District Permit to Operate (PTO) are identified in Form 06.

After the ATC is granted for any equipment, deviations from the approved plans are not permissible without first securing additional written approval for the changes from the Air Pollution Control Officer.

Provide all the following information:

SECTION 1 - Owner/operator contact information

- 1a. Company name: _____
- 1b. Contact name: _____
- 1c. Contact phone number: _____
- 1d. Contact address: _____
- 1e. Contact e-mail: _____
- 1f. Engine location: _____

SECTION 2 - Engine information

- 2a. Engine manufacturer: _____
- 2b. Model number: _____ Serial number: _____
- 2c. Engine Family (EPA 12 character number): _____
- 2d. Certification: Non-Certified Tier I Tier II Tier III Interim-Tier IV
- 2e. Year of manufacture (if unable to determine, approximate age): _____
- 2f. Maximum power rating (BHP): _____
- 2g. Fuel type:
 - Diesel Low sulfur 0.05% (500 ppm) Ultra low sulfur 0.0015% (15 ppm)
 - Natural gas Average Btu content: _____ Btu/cubic foot
 - LPG Average Btu content: _____ Btu/gallon
 - Other, Specify: _____
- 2h. Spark ignited lean burn Spark ignited rich burn Compression ignition

- 2i. Engine Cycle: 2-Cycle 4-Cycle
- 2j. Maximum rated fuel consumption (e.g. gal/hour, standard cubic feet/hour): _____
- 2k. Engine meter: Hour meter Dedicated fuel meter Other
- 2l. Exhaust volume (actual cubic feet per minute, acfm): _____
- 2m. Exhaust temperature (°Fahrenheit): _____
- 2n. Exhaust pressure (inches Hg): _____
- 2o. Exhaust stack height from ground (feet): _____
- 2p. Diameter of exhaust stack outlet (feet): _____
- 2q. Direction of exhaust stack outlet: Horizontal Vertical
- 2r. End of exhaust stack: Open (including rain caps) Fixed Cap
- 2s. Exhaust emission guarantees:
- | <u>Pollutant</u> | <u>Value</u> | <u>Units</u> (e.g. g/bhp-hr, ppmv, lb/hr, etc.) | |
|------------------|--------------|---|--|
| VOC | _____ | _____ | [Provide a copy of the engine specification sheets which shows the actual emissions from the engine] |
| CO | _____ | _____ | |
| NO _x | _____ | _____ | |
| SO _x | _____ | _____ | |
| PM ₁₀ | _____ | _____ | |
- 2t. Exhaust emission supporting data (if available, manufacturer's data, source tests, or specify other source): _____
- 2u. Control equipment (if applicable):
- Turbocharger: Yes No
- Aftercooler: Yes No
- Injection timing retard: Yes No
- Non-selective catalyst: Yes No
- Diesel particulate filter: Yes No (Provide manufacturer's data with application)
- Other: _____

SECTION 3 - Operational information

3a. For existing units, the date engine first began operation in the District: _____

3b. Emergency-use engine: Yes* No

*An emergency use engine will be permitted to only operate when normal line power or natural gas service fails; or for the emergency pumping of water for either fire protection or flood relief. An emergency use engine may not be operated in a demand relief (load shed or peak shaving) program. Emergency use engines will be limited to 200 total hours of operation per year (including maintenance and testing hours). Using these levels exempts the engine from the requirements of District Rule 2.32, IC Engines.

3c. Maximum operating schedule for non-emergency use engines:

Hours per day: _____

Hours per quarter: _____

Hours per year: _____

- 3d. Typical annual hours of operation: _____
- 3e. If seasonal, months of year operated and typical hours per month operated: _____
- 3f. Typical load of emergency diesel fired engine (percent of maximum bhp rating): _____
- 3g. Is engine part of a demand response program: Yes No
- 3h. Equipment driven by this engine:
 Natural gas compressor Electric generator Abrasive blaster
 Direct drive water pump Air compressor Drill Chipper
 Other: _____
 i. Equipment manufacturer: _____
 ii. Model number: _____ Serial number: _____
- 3i. Describe periodic maintenance procedures used to insure that emissions will be minimized:

SECTION 4 - Receptor information

- 4a. A drawing or sketch that shows at least the following:
- The property involved - identify property lines and all buildings on the property;
 - Location of the internal combustion engine on the property;
 - Location of exhaust stack; and
 - Location of the property with respect to streets and all adjacent properties. Identify the use of all adjacent properties (business or residence).
- 4b. Distance to nearest residence (feet): _____
- 4c. Distance to nearest business (feet): _____
- 4d. Distance to nearest school grounds (feet): _____
- 4e. For existing engines, is the unit part of the AB2588 emission inventory: Yes No

Print completed form and sign the name of person completing the form:

Print name: _____ Title: _____

Signature: _____ Date: _____

(ORIGINAL SIGNATURE REQUIRED. NO PHOTOCOPIES)