

**FORM ICE100  
INTERNAL COMBUSTION ENGINES**

Engine Manufacturer: \_\_\_\_\_ Brake Horsepower: \_\_\_\_\_ at \_\_\_\_\_ RPM  
 Model Number: \_\_\_\_\_ Identification/Serial Number (if known): \_\_\_\_\_  
 Engine Family \_\_\_\_\_  
 Date of Installation \_\_\_\_\_ Date Engine was Manufactured: \_\_\_\_\_ Cubic Inch Displacement: \_\_\_\_\_

Engine Type:      4-Cycle                    2-Cycle

Aspiration Type:    Turbo Charged        Normal            After Cooled

Fuel Type: <input type="checkbox"/> CARB Diesel <input type="checkbox"/> Gasoline <input type="checkbox"/> Natural Gas <input type="checkbox"/> Alternative Diesel (specify) _____ <input type="checkbox"/> Other(specify) _____ Fuel Usage Rate (if known) _____	If Gaseous Fueled: <input type="checkbox"/> Rich Burn <input type="checkbox"/> Lean Burn
--	---

Engine is used for:      Prime Power            Emergency Standby Exclusively\*

\*Emergency standby exclusively allows operation when there is an actual interruption of power by the serving utility, emergency water pumping for flood control, fire fighting or water pressure. Operation allows up to **50 hours/year** of operation for maintenance purposes and **200 total hours/year** of operation for emergency and maintenance purposes combined (The CARB Diesel IC Engine Air Toxics Control Measure may restrict the engines maintenance hours further) .

Maximum number of hours of operation for which the permit is being requested (see note above):  
 \_\_\_\_\_ hours/day       \_\_\_\_\_ hours/quarter       \_\_\_\_\_ hours/year

Typical Load (% of rated hp) \_\_\_\_\_       Typical Hours of Operation (hrs/year) \_\_\_\_\_

Which of the following (if any) will be used to control emissions?

Diesel Particulate Filter (DPF)   Is the Diesel Particulate Filter certified by CARB?    Yes    No

Selective Catalytic Reduction

Non-Selective Catalytic Reduction/3 Way Catalysts

Other(specify) \_\_\_\_\_

Equipment Driven by this Engine:

Generator   KW rating \_\_\_\_\_        Compressor        Pump (Specify Use): \_\_\_\_\_

Generator that drives a pump

Other (specify) \_\_\_\_\_

**FORM ICE100**  
**INTERNAL COMBUSTION ENGINES (continued)**

Exhaust Stack Parameters:

Stack Height: \_\_\_\_\_ feet above ground    Stack Inner Diameter: \_\_\_\_\_ inches    Stack Flow Rate: \_\_\_\_\_ cfm

Stack Temperature : \_\_\_\_\_ °F

- Exhaust stack location:     Stack on building roof. Height of roof: \_\_\_\_\_ feet above ground  
   Stack attached to side of building. Height of building: \_\_\_\_\_ feet above ground  
   Stack is not connected to building. Distance to nearest building: \_\_\_\_\_ feet

**Important Note: Exhaust stack must vent upward (not to the side) and cannot be equipped with a rain cap that restricts vertical flow of exhaust gases.**

Adjacent Properties: Please indicate distance and direction (i.e. N, NE, E, SE, S, SW, W, NW) from the engine stack to the following:

To the property line of the nearest residence: \_\_\_\_\_ feet. Direction: \_\_\_\_\_

To the property line of the nearest school (between grades K-12): \_\_\_\_\_ feet. Direction: \_\_\_\_\_

To the property line of the nearest commercial site: \_\_\_\_\_ feet. Direction: \_\_\_\_\_

**BEST AVAILABLE CONTROL TECHNOLOGY REQUIREMENTS:**

Please refer to [SMAQMD's IC Engine Manual](#) for BACT and T-BACT applicability and standards. A copy of the SMAQMD's IC Engine Manual can be obtained by visiting the SMAQMD's web site ([www.airquality.org](http://www.airquality.org)) or by contacting the SMAQMD at 279-207-1122.

**DRAWINGS REQUIRED:**

Drawings should be submitted on 8-1/2" X 11" sheets or larger. Drawings must clearly show the required information but do not need to be professionally drawn. All drawings should be drawn with north facing up and to scale.

**Nearby Buildings:**

Submit a drawing showing all buildings affecting the exhaust stack or point of release. The area of influence for a building is defined as the area within 5 times the lesser of the height, width, or length of a building. For each building, the drawing must show length, width, and height of the building, and distance to exhaust stack or point of release.

**Property Line:**

Submit a drawing showing the exhaust stack in relation to the property line. The drawing must be drawn to scale, with North facing up, and must show the entire property.

**Near-by Residential and Commercial Properties:**

Submit a drawing showing residential and commercial buildings surrounding the property. Indicate the distance from the stack (point of release) to the nearest residential and commercial buildings.