

San Diego APCD
Emissions Inventory Instructions

COMBUSTION – DIESEL FIRED ENGINES

Please refer to the general instructions for guidance regarding the following sections: reporting year, facility identification, permit information, device information, stack / ducted emissions, fugitive release emissions, and other activity data.

MATERIAL/ PROCESS INFORMATION

Fill in all the data fields and refer to EIS or EIQ spreadsheets for specific reporting instructions.

CALCULATION METHOD SELECTION

A05-E10 - Engine, Diesel Fired, >600 BHP, Uncontrolled

A05-E11 - Engine, Diesel Fired, >600 BHP, with Ignition Timing Retard

A05-E12 - Engine, Diesel Fired, >600 BHP, with Increased Air to Fuel Ratio

A05-E13 - Engine, Diesel Fired, >600 BHP, with Water Injection

A05-E14 - Engine, Diesel Fired, >600 BHP, with Selective Catalytic Reduction

A05-E15 - Engine, Diesel Fired, <=600 BHP, Uncontrolled

Fuel Type: Only diesel fuel should be reported on this form. Other liquid fuels (i.e., residual oil, jet fuel, kerosene, propane, butane, gasoline) should be reported on the COMBUSTION – LIQUID FUEL request form.

Note: only provide engine data during non-emergency use.

Annual Fuel Usage: Annual quantity of fuel (gallons) combusted in the inventory year

Max Hourly Fuel Usage: In general, the max hourly usage is the maximum quantity of fuel (gallons) combusted in a single hour, during the inventory year. If the engine did not run for an hour at the time of maximum usage, the max amount of fuel combusted during the hour should be used.

Note: If max hourly usage is not available, or provided, then the max hourly fuel usage will be assumed to be the max horsepower x fuel consumption (AP-42) x (1/diesel BTU content (AP-42)) x (1/density of diesel) x operating schedule (if less than one hour)

You may find emission factors at the Air Resources Board (ARB) webpage

<https://www.arb.ca.gov/msprog/offroad/cert/cert.php> or the Environmental Protection Agency's (EPA) webpage

<https://www.epa.gov/compliance-and-fuel-economy-data/engine-certification-data>.

Device Operating Schedule:

Daily Operation (hours/day): Report the average amount of hours the device operates in a typical day.

Weekly Operation (days/week): Report the average number of days the device operates in a typical week.

Annual Operation (days/year): Report the number of days the device operated during the Reporting Year.

POLLUTANT NAME (lbs pollutant/1000 gallons fuel)

Provide site specific emission factors with supporting documentation. Input emission factors into EIS for submission either through direct entry through the 'Enter Emissions Inventory Data' module or through upload of an EIQ spreadsheet. The District will use default emission factors to estimate emissions where site-specific information is not available or not documented. Control efficiencies must be included in emission factors reported.