How to Report Non-Diesel and Non-Standard Engines

Fleets subject to the “Regulation for In-Use Off-Road Diesel-Fueled Fleets” (Off-Road Regulation) are required to report information on non-diesel and non-standard engines including the category and engine’s certification Executive Order (EO) number. A non-diesel engine or a diesel engine certified to a different standard (e.g., on-road, consent decree, or rebuild) will have a different emission standard than the standard determined by the engine tier or engine model year and horsepower (hp). For more information regarding emission factors, see the Frequently Asked Questions (FAQs) on Emission Factors, available on the Frequently Asked Questions page in the Off-Road Zone at www.arb.ca.gov/offroadzone.

This User Guide provides a summary of information to help fleets determine which non-diesel or non-standard category the vehicle falls under, provides step-by-step instructions on how to report non-diesel and non-standard engines, and instructions for locating EO numbers.

Note: For information on determining non-standard engine categories and instructions on how to report a non-standard on-road or off-road engine please skip to page 5 of this User Guide. For step-by-step instructions on locating your EO number please skip to page 8 of this User Guide.

Non-Diesel Engine Categories

There are four non-diesel engine categories:

- **Diesel Converted to Alt-fuel:** Vehicles in this category contain diesel engines that have been converted to run on an alternative fuel (such as propane, natural gas, etc.), but are not certified to meet a different standard.

- **Electric:** Electric motors in this category must be 25 hp or greater.

- **Electric (Replaced Diesel):** Electric motors in this category do not have to be 25 hp or greater, but the electric vehicle must serve as a replacement and perform work equivalent to a diesel vehicle that was 25 hp or greater. When an electric vehicle is used as a replacement for a diesel vehicle, the fleet may use the max hp of the diesel vehicle as the electric vehicle’s max hp rating.

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• Other Alternative Fueled Engines, which include:
  o Ethanol
  o Fuel Cells
  o Gasoline
  o Hydrogen
  o Methanol
  o Natural Gas
  o Propane

When reporting diesel engines converted to alternative fuel, electric vehicles used to replace diesel vehicles, and gasoline engines, fleets must enter the hp of the diesel vehicle/engine that was replaced and the date the diesel vehicle/engine was replaced. For more information, see the Emission Factors FAQ, available on the Frequently Asked Questions page in the Off-Road Zone at www.arb.ca.gov/offroadzone.

Reporting Non-Diesel Engines

To report a vehicle with a non-diesel engine, there are two reporting pages that must be completed: the Vehicle & Engine page and the Non Standard Engine page. The steps for completing these pages are as follows:

1. Log in to your DOORS account and select your fleet.

<table>
<thead>
<tr>
<th>DOORS ID</th>
<th>Fleet / Company Name</th>
<th># of Equipment (Vehicle)</th>
<th>Fleet Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>208</td>
<td>Test - Example Fleet</td>
<td>7</td>
<td>Off-Road Diesel</td>
</tr>
<tr>
<td>209</td>
<td>Test - Example Fleets</td>
<td>0</td>
<td>Off-Road Diesel</td>
</tr>
<tr>
<td>210</td>
<td>Test - Example Large Fleet</td>
<td>7</td>
<td>Off-Road Diesel</td>
</tr>
</tbody>
</table>

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2. Select “Vehicle & Engine” at the top of the page. Alternatively, if you are reporting an existing vehicle that has been repowered with a non-diesel engine, select “Engine Repower” at the top of the page.

3. When entering the engine information, select the appropriate non-diesel engine category from the drop-down menu.


5. Select “Non-Diesel Engine“ at the top of the page.

6. Select “Edit” next to the non-diesel vehicle you wish to edit.

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7. For diesel engines converted to alternative fuel, electric vehicles used to replace diesel vehicles, and gasoline engines, enter the following:

   a. Horsepower of the diesel vehicle/engine that was replaced;

   b. The date of replacement; and

   c. For gasoline only, enter the EO number. Instructions for locating the EO number are found starting on page 8 of this User Guide.

8. Then select “Enter Data” to save the changes.

9. For all non-diesel engines except electric, contact CARB staff on the DOORS Hotline at 1-877-59DOORS (1-877-593-6677), or by email at doors@arb.ca.gov to have your engine’s NOx standard entered.

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Non-Standard Engine Categories

There are four categories for engines certified to a different emission standard:

- **Consent Decree**: Vehicles with consent decree engines have engines certified to a more stringent emission standard than required for the engine’s model year and hp (e.g., the engine is certified to Tier 3 standards when based on model year, it was only required to be certified to Tier 2 standards).

- **Flexibility**: Vehicles with flexibility (flex) engines have engines that were produced by engine manufacturers to a less stringent emission standard after a new tier of emission standards went into effect (e.g., the engine is certified to Tier 2 standards after Tier 3 standards became effective). The purpose of flex engines is to provide manufacturers more time to redesign their vehicles and/or engines to meet the newer, more stringent emission standards.

- **On-Road**: For off-road vehicles that have been repowered with on-road engines, or for on-road two-engine vehicles, fleets may use the emission standard for the on-road engine when calculating its fleet average.

- **Rebuild**: Engines that have been rebuilt and certified to meet more stringent emission standards fall under this category. Engines that have been repaired or rebuilt to their original emissions configuration do not fall under this category.

With the exception of flex engines, fleets are required to report the appropriate EO number for each non-standard engine. When “Flexibility Engine” is selected, DOORS automatically assigns an emission factor based on the hp and model year of the engine. Instructions for locating the EO number are found starting on page 8 of this User Guide.
Reporting Non-Standard Engines

To report a vehicle with a non-standard engine, there are two reporting pages that must be completed: the Vehicle & Engine page and the Non-standard page. The steps for completing these pages are as follows:

1. Log in to your DOORS account and select your fleet in the left window.

2. Select “Vehicle & Engine” at the top of the page. Alternatively, if you are reporting an existing vehicle that has been repowered with a non-diesel engine, select “Engine Repower” at the top of the page.

3. When entering the engine information, select the appropriate non-standard engine category from the drop-down menu.

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5. For consent decree, on-road, and rebuilt engines, select “Non-Standard Engine” at the top of the page. Flexibility engines have no further reporting requirements.

6. Select “Edit” next to the non-standard vehicle you wish to edit.

7. For consent decree, on-road, and rebuilt engines, enter the EO number and the date of rebuild for rebuilt engines only. Then select “Enter Data” to save the changes.

8. For all non-standard engines except electric, contact CARB staff on the DOORS Hotline at 1-877-59DOORS (1-877-593-6677) or by email at doors@arb.ca.gov to have your engine’s NOx standard entered.

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Locating Executive Order (EO) Numbers

Non-Standard: On-Road:

The EO number for on-road engines can be found in the on-road engine certification database at http://www.arb.ca.gov/msprog/onroad/cert/cert.php#6.

1. Select the link under the “HDE_HDV_MDE” column next to the appropriate engine model year.

<table>
<thead>
<tr>
<th>Model Year</th>
<th>PC_LDT_MDV_MDEV</th>
<th>HDE_HDV_MDE</th>
<th>ONMC</th>
<th>OFMC_ATV_UV_SY_SCAR_EGC</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
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<td>07/12/13</td>
<td>07/08/13</td>
<td>07/08/13</td>
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<tr>
<td>2013</td>
<td>07/09/13</td>
<td>06/24/13</td>
<td>07/11/13</td>
<td>07/03/13</td>
</tr>
<tr>
<td>2012</td>
<td>02/13/13</td>
<td>12/14/12</td>
<td>12/31/12</td>
<td>12/31/12</td>
</tr>
<tr>
<td>2011</td>
<td>12/31/12</td>
<td>03/13/13</td>
<td>12/28/12</td>
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</tr>
<tr>
<td>2010</td>
<td>12/31/12</td>
<td>04/03/13</td>
<td>12/31/12</td>
<td>02/07/11</td>
</tr>
<tr>
<td>2009</td>
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<td>12/31/12</td>
</tr>
<tr>
<td>2008</td>
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<td>12/31/12</td>
</tr>
<tr>
<td>2007</td>
<td>12/19/12</td>
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<td>12/19/12</td>
<td>12/19/12</td>
</tr>
<tr>
<td>2006</td>
<td>12/17/12</td>
<td>08/04/11</td>
<td>12/17/12</td>
<td>12/17/12</td>
</tr>
</tbody>
</table>

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2. A list of certified on-road engines will appear, organized by engine manufacturer. You will then need to search for the appropriate EO number by engine displacement. The displacement is listed in the link name (e.g., “…_8d0_” means 8.0L displacement).

If there is more than one EO with the appropriate displacement listed, you will need to open each link and check to see which EO matches the engine family name, displacement, heavy heavy-duty diesel (HHDD) or medium heavy-duty diesel (MHDD), etc., for your specific engine.

<table>
<thead>
<tr>
<th>Executive Orders</th>
</tr>
</thead>
<tbody>
<tr>
<td>cleanfuel_hdoc_a3670021_8d0_0d20_lpg.pdf</td>
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<tr>
<td>cleanfuel_hdoc_a3670022_8d0_0d20_lpg.pdf</td>
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<td>ford_hdoc_a0101777_6d8_0d20.pdf NEW</td>
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<tr>
<td>ford_hdoc_a0101778_6d8_0d20.pdf NEW</td>
</tr>
</tbody>
</table>

3. Click the appropriate EO link to open the EO file. The EO number can be found in the top right corner, next to the engine manufacturer.

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Non-Standard: Off-Road:

The EO number for consent decree and rebuilt engines can be found in the off-road engine certification database at [http://www.arb.ca.gov/msprog/offroad/cert/cert.php](http://www.arb.ca.gov/msprog/offroad/cert/cert.php).

1. To search the engine certification database, first select “Off-road Compression-Ignition Engines (Diesel) Engines”

2. Next, select the engine model year from the drop down menu and select “Browse”.

3. A list of engine manufacturers will appear and you can select a specific engine manufacturer or select “All Manufacturers”, and then select “Submit”.

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4. You can then search the page for the appropriate EO number by referencing the engine family name.

<table>
<thead>
<tr>
<th>Executive Order</th>
<th>Engine Family</th>
<th>Max. Displ. (liter)</th>
<th>Min. Power (kW)</th>
<th>Max. Power (kW)</th>
<th>Application</th>
<th>HC</th>
<th>NOx</th>
<th>NMHC + NOx</th>
<th>CO</th>
<th>PM</th>
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<tbody>
<tr>
<td>U-R-001-0455</td>
<td>FCPX18.1HXF</td>
<td>18.1</td>
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<td>595</td>
<td>PUMP, CRANE, OTHER INDUSTRIAL EQUIPMENT</td>
<td>0.03</td>
<td>2.9</td>
<td>--</td>
<td>--</td>
<td>0.04</td>
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<tr>
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<td>FCPX27.0HXF</td>
<td>27</td>
<td>561</td>
<td>707</td>
<td>LOADER, PUMP, OTHER INDUSTRIAL EQUIPMENT</td>
<td>0.04</td>
<td>3.1</td>
<td>--</td>
<td>0.1</td>
<td>0.04</td>
</tr>
<tr>
<td>U-R-001-0457</td>
<td>FCPX32.0HXF</td>
<td>32</td>
<td>659</td>
<td>837</td>
<td>LOADER, TRACTOR, PUMP, OTHER INDUSTRIAL EQUIPMENT</td>
<td>0.04</td>
<td>3.1</td>
<td>--</td>
<td>0.01</td>
<td>0.02</td>
</tr>
</tbody>
</table>

5. Click the appropriate EO link to open the EO file. The EO number can be found in the top right corner, next to the engine manufacturer.

For more information on reporting, refer to our other guides, which are available in the Off-Road Zone at: [www.arb.ca.gov/offroadzone](http://www.arb.ca.gov/offroadzone)

If you require additional assistance or information, please contact the DOORS hotline by phone at 1-877-59DOORS (1-877-593-6677), or by email at doors@arb.ca.gov.

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