Example Alternative Compliance Waiver Request Application

September 2009
June 15, 2008

Regulatory Manager
DOE Alternative Fuel Transportation Program
U.S. Department of Energy, EE-2G/Forrestal Building
1000 Independence Avenue, S.W.
Washington, DC 20585

Dear Regulatory Manager:

This letter documents the model year (MY) 2009 Alternative Compliance waiver request for Example Fleet (EPAct Fleet ID Number 1255). Contained herein is the following information:

1. Average fuel use per light-duty vehicle
2. Alternative Compliance Vehicle Inventory
3. Petroleum reduction requirement
4. Petroleum reduction plan
5. Certification of compliance with all applicable vehicle emissions standards.

**Average Fuel Use**
The average fuel use for our covered light-duty vehicles was estimated to be 749 gasoline gallon equivalents (GGE) per year. This estimate is based on light-duty vehicle fuel use data collected by the fleet over the past three years—2006, 2007, and 2008.

**Alternative Compliance Vehicle Inventory**
The total number of alternative compliance vehicles in our inventory is 15 for MY 2009.

**Petroleum Reduction Requirement**
The printout of the calculation of the petroleum reduction requirement is attached to this letter as Appendix 1. The requirement was calculated using the Alternative Compliance Planning Tool. The requirement, 11,235 GGE, is the product of the number of vehicles in the fleet’s Alternative Compliance Vehicle Inventory and the average fuel use for light-duty vehicles.

**Petroleum Reduction Plan**
The petroleum reduction plan, the print out of which is attached to this letter as Appendix 2, was generated using the U.S. Department of Energy’s online Alternative Compliance Planning Tool. The plan employs a multi-method approach that includes deployment of alternative fuels, hybrid electric vehicles, biodiesel blends, fuel economy improvement, and truck-stop electrification. The calculated total petroleum savings from this plan is 12,866 GGE, which will exceed the required reduction, 11,235 GGE, by 15%.

**Certification of Compliance with Emission Standards**
This is to certify that Example Fleet is in compliance with all applicable vehicle emissions standards that the Administrator of the Environmental Protection Agency established under the Clean Air Act.

Sincerely,

John Doe
Title of Senior Official
Example Fleet

Available at [www.eere.energy.gov/vehiclesandfuels/epact](http://www.eere.energy.gov/vehiclesandfuels/epact)
Revised September 2009
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Appendix 1

Alternative Compliance Planning Tool

Step 1: Determine Your Petroleum Reduction Requirements

Answer the following questions to determine your petroleum reduction requirement. After filling in the fields, click Save Inputs and a summary of your results will appear in the box at right.

Note: If you have an approved intent to apply for a waiver, you may check your current Alternative Compliance vehicle (ACV) inventory by clicking the button below. If your intent to apply for a waiver has not been approved, the button does not appear.

Results

EPAct Fleet ID: 1255
Your petroleum reduction requirement for the model year is listed above. To change your fleet information, enter the new data in the boxes at left and press Save Inputs.

Model year for which you are applying: 2009
ACV inventory total: 15
Average fuel use per light-duty vehicle (LDV) in your fleet: 749

Print Results for Your Records

Now Proceed to Step 2
Create Your Petroleum Reduction Plan

Available at www.eere.energy.gov/vehiclesandfuels/epact
Revised September 2009
Appendix 2

Petroleum Reduction Plan

EPAct Fleet ID: 1255

Annual Petroleum Reduction Requirement: 11,235 GGE 115% realized

Based on your inputs, this is your petroleum reduction requirement. If you are satisfied with this plan, print it, obtain the signature of a senior official, and mail it to DOE as part of your Alternative Compliance waiver application package.

To alter your plan, return to Step 2.

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**Alternative Fuels**

<table>
<thead>
<tr>
<th>AFV Type</th>
<th>AFV Fuel</th>
<th>Number of AFVs</th>
<th>Average VMT</th>
<th>Fuel Economy (mpg)</th>
<th>Fraction of Fuel Use</th>
<th>GGE Reduced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Large Van</td>
<td>E85</td>
<td>2</td>
<td>12000</td>
<td>21.6</td>
<td>.75</td>
<td>833</td>
</tr>
<tr>
<td>MD Truck Diesel &lt; 14k lb</td>
<td>CNG</td>
<td>5</td>
<td>13035</td>
<td>16</td>
<td>.8</td>
<td>3738</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TOTAL GGE</td>
</tr>
</tbody>
</table>

Available at [www.eere.energy.gov/vehiclesandfuels/epact](http://www.eere.energy.gov/vehiclesandfuels/epact)

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# Hybrid Electric Vehicles (HEVs)

<table>
<thead>
<tr>
<th>Fuel Type</th>
<th>Number of Vehicles</th>
<th>Average VMT</th>
<th>Fuel Economy of new HEVs</th>
<th>Fuel Economy of Old Vehicles</th>
<th>GGE Reduced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>5</td>
<td>15000</td>
<td>46</td>
<td>24</td>
<td>1495</td>
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</tbody>
</table>

**TOTAL GGE** 1495

# Biodiesel Blends

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<th>Vehicle Type</th>
<th>Blend Type</th>
<th>Number of Vehicles</th>
<th>Average VMT</th>
<th>Fraction of Fuel Use</th>
<th>Fuel Economy</th>
<th>GGE Reduced</th>
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</thead>
<tbody>
<tr>
<td>MD26</td>
<td>B20</td>
<td>21</td>
<td>12000</td>
<td>.67</td>
<td>11</td>
<td>3190</td>
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</table>

**TOTAL GGE** 3190

# Fuel Economy Improvement

<table>
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<th>Fuel Type</th>
<th>Number of Vehicles</th>
<th>Average VMT</th>
<th>Fuel Economy of New Vehicles</th>
<th>Fuel Economy of Old Vehicles</th>
<th>GGE Reduced</th>
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</thead>
<tbody>
<tr>
<td>Gasoline</td>
<td>4</td>
<td>10000</td>
<td>35</td>
<td>20</td>
<td>857</td>
</tr>
</tbody>
</table>

**TOTAL GGE** 857

Available at [www.eere.energy.gov/vehiclesandfuels/epact](http://www.eere.energy.gov/vehiclesandfuels/epact)

Revised September 2009
## Truck Stop Electrification

<table>
<thead>
<tr>
<th>Number of Bays</th>
<th>Hours per Year</th>
<th>Fuel Used (gal/hr)</th>
<th>GGE Reduced</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>300</td>
<td>1</td>
<td>2753</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>TOTAL GGE</strong> 2753</td>
</tr>
</tbody>
</table>

Total GGE Reduced: **12,866**