§ 87.64

(f) The following landing and take-off (LTO) cycles apply for emission testing and calculating weighted LTO values:

<table>
<thead>
<tr>
<th>Mode</th>
<th>Turboprop</th>
<th>Subsonic turbofan</th>
<th>Supersonic turbofan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Percent of rated output</td>
<td>Time in mode (minutes)</td>
<td>Percent of rated output</td>
</tr>
<tr>
<td>Take-off</td>
<td>100</td>
<td>0.5</td>
<td>100</td>
</tr>
<tr>
<td>Climb</td>
<td>90</td>
<td>2.5</td>
<td>85</td>
</tr>
<tr>
<td>Descent</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Approach</td>
<td>30</td>
<td>4.5</td>
<td>30</td>
</tr>
<tr>
<td>Taxi/ground idle</td>
<td>7</td>
<td>26.0</td>
<td>7</td>
</tr>
</tbody>
</table>

(g) Engines comply with an applicable standard if the testing results show that the engine type certificate family’s characteristic level does not exceed the numerical level of that standard, as described in § 87.60.

[77 FR 36386, June 18, 2012]

§ 87.64 Sampling and analytical procedures for measuring gaseous exhaust emissions.

(a) [Reserved]

(b) Starting January 1, 2011, report CO₂ values along with your emission levels of regulated NOₓ to the Administrator for engines of a type or model of which the date of manufacture of the first individual production model was on or after January 1, 2011. By January 1, 2011, report CO₂ values along with your emission levels of regulated NOₓ to the Administrator for engines currently in production and of a type or model for which the date of manufacture of the individual engine was before January 1, 2011. Round CO₂ to the nearest 1 g/kilonewton RO.

(c) Report CO₂ by calculation from fuel mass flow rate measurements in Appendices 3 and 5 to ICAO Annex 16, volume II or alternatively, according to the measurement criteria of CO₂ in Appendices 3 and 5 to ICAO Annex 16, volume II.


PART 88—CLEAN-FUEL VEHICLES

Subpart A—Emission Standards for Clean-Fuel Vehicles

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88.103–94 Abbreviations.
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88.314–94 Applicability to covered Federal fleets.
88.318–93 Incentives for the purchase of Inherently Low-Emission Vehicles.

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