§ 610.21  
(e) Evaluation of test data;  
as these concepts are explained in  
§§ 610.21 through 610.25 respectively.

§ 610.21 Device functional category  
and vehicle system effects.

(a) The devices evaluated in this  
program are organized into categories for  
purposes of definition and establish-  
ment of evaluation criteria and test  
procedures, and to indicate which vehi-  
cle functional characteristics (other  
than fuel economy) may be adversely  
affected by installation or use of the  
device.

(b) A device’s category will be based  
on:

(1) Engineering principles governing  
operation of the device;

(2) Interaction between the device  
and specific vehicle/engine operating  
characteristics; and

(3) Constraints with respect to vehi-  
cle applicability of the device.

(c) The device categories and the ve-  
hicle functional characteristics which  
may be adversely affected are noted for  
each device category in Table I. The  
notation for each characteristic is as  
follows:

Exhaust emissions.........................................1  
Driveability...................................................2  
Durability .....................................................3  
Performance..................................................4

(d) In the absence of sufficient infor-  
mation from the device manufacturer  
on this topic or if the Administrator’s  
preliminary analysis indicates that  
testing is necessary to determine the  
nature or extent of possible adverse ef-  
ects of device installation and use on  
vehicle operation and performance, the  
Administrator will require such tests  
to be conducted prior to the publica-  
tion of a complete evaluation of the  
device.

                                                                                       TABLE 1—Continued

Device categories                                                                 Characteristics adversely affected

<table>
<thead>
<tr>
<th>Device categories</th>
<th>40 CFR Ch. I (7–1–10 Edition)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Torque converter lockups</td>
<td>1, 2, and 4.</td>
</tr>
<tr>
<td>Exhaust System</td>
<td></td>
</tr>
<tr>
<td>Headers</td>
<td>1.</td>
</tr>
<tr>
<td>Tuned exhaust systems</td>
<td>1.</td>
</tr>
<tr>
<td>Accessories</td>
<td></td>
</tr>
<tr>
<td>Cooling fan or cooling fan couplings</td>
<td>1.</td>
</tr>
<tr>
<td>Cold start aids (e.g., engine heaters)</td>
<td>1.</td>
</tr>
<tr>
<td>Lubrication</td>
<td></td>
</tr>
<tr>
<td>Oil filters</td>
<td>3.</td>
</tr>
<tr>
<td>Vehicle Body</td>
<td></td>
</tr>
<tr>
<td>Aerodynamic drag reduction devices</td>
<td>1.</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td></td>
</tr>
<tr>
<td>Modification to valve timing</td>
<td>All.</td>
</tr>
<tr>
<td>Retro fit prechambers</td>
<td>All.</td>
</tr>
<tr>
<td>Fuel additives</td>
<td>All.</td>
</tr>
<tr>
<td>Other miscellaneous</td>
<td>Potentially all.</td>
</tr>
</tbody>
</table>

§ 610.22 Device integrity.

The integrity of a device will be eval-  
uated with respect to:

(a) The extent to which device manu-  
facture is standardized by means of  
drawings, specifications, and other fab-  
rication and quality assurance con-  
trols;

(b) The degree of sensitivity of device  
effectiveness to deterioration under ex-  
posure to normal operating conditions.

(c) The susceptibility of the device to  
deterioration of effectiveness under ab-  
normal operating conditions;

(d) The effect upon its surroundings  
of device malfunction which may be  
reasonably anticipated to occur in ac-  
tual use; and

(e) The extent to which test data sup-  
port (b), (c) and (d).