

Attachment 2
15-Day Modifications to the Original Proposal

**MODIFICATIONS TO THE PROPOSED TEST PROCEDURE FOR
DETERMINING EVAPORATIVE EMISSIONS FROM OFF-HIGHWAY
RECREATIONAL VEHICLES (TP-933)**

Shown on the following pages are the proposed modifications to the original proposed test procedure set forth in Attachment B of the Staff Report: "Adoption Of Evaporative Emission Control Requirements For Off-Highway Recreational Vehicles," released June 5, 2013. The changes to the originally proposed regulatory language are shown in underline to indicate additions and ~~strikeout~~ to indicate deletions.

Various portions of the test procedure that are not modified by staff's suggested modifications are omitted from the text shown and indicated by:

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TP-933

Test Procedure for Determining Evaporative Emissions from Off-Highway Recreational Vehicles (OHRVs)

1.1 Terms and Definitions

1.1.3 For the purpose of this procedure, the term "Deterioration factor" means the ratio of emissions after and before durability testing or the value of any positive increase in emissions from before to after durability testing.

~~1.1.9 For the purpose of this procedure, the term "useful life" shall mean the time required for half the number of vehicles sold in a model year to no longer be in use.~~

4 DURABILITY TESTING

4.3 Carbon Canister Protection - Tip Test

4.3.1 In less than 2 seconds, orient the vehicle such that the travel axis is tilted X degrees above and below the horizontal plane. See Figure 3 for a schematic. Hold the vehicle for 60 to 70 seconds, at least 1 minute, or such longer period of time as a manufacturer may choose, in both the positive and negative position. X shall be as defined as follows:

4.3.2 In less than 2 seconds, orient the vehicle such that the upright axis is tilted Y degrees from the vertical axis with rotation being about the travel axis. See Figure 4 for a schematic. Hold this position in both the positive and negative position for 60 to 70 seconds, at least 1 minute, or such longer period of time as a manufacturer may choose. Y shall be as defined as follows:

6 EVAPORATIVE EMISSIONS TEST PROCEDURES

6.1.1 In less than 2 seconds, orient the vehicle such that the travel axis is tilted X degrees above and below the horizontal plane. See Figure 3 for a schematic. Hold the vehicle for 60 to 70 seconds, at least 1 minute, or such longer period of time as a manufacturer may choose, in both the positive and negative position. Note any visible signs of fuel leakage. X shall be as defined as follows:

- a) $30^\circ \pm 2^\circ$ for off-road motorcycles.
- b) $30^\circ \pm 2^\circ$ for all other OHRVs.

6.1.2 In less than 2 seconds, orient the vehicle such that the upright axis is tilted Y degrees from the vertical axis with rotation being about the travel axis. See Figure 4 for a schematic. Hold this position in both the positive and negative position for 60 to 70 seconds, or such longer period of time as a manufacturer may choose. Y shall be as defined as follows:

- a) Unsupported position on either side for off-road motorcycles (i.e., vehicle lying on its side).
- b) $15^\circ \pm 2^\circ$ for all other OHRVs.

6.4 Diurnal Test

6.4.2 Steady State Diurnal Test

6.4.2.2 Attach vent line(s) to air-port(s) of carbon canister(s), if so equipped, that will direct any air/vapor exiting the canister to the exterior of the test enclosure. This air/vapor need not be measured.

6.4.2.5 Compliance is shown if the emissions measured in this section are lower than the standard and either one of the following can be shown:

10 APPENDICES

Figure A-1: Calculations Flow Chart

