

# Attachment C

## 15-Day Modifications to the Original Proposal

Proposed Amendments to Small Off-Road Engine  
Evaporative Emissions Test Procedure, TP-901,  
Test Procedure for Determining Permeation Emissions from  
Small Off-Road Engine Fuel Tanks

[Note: The originally proposed modifications to the regulatory language are shown in underline to indicate additions and ~~striketrough~~ to indicate deletions. The proposed 15-day modifications to the proposed regulations are shown in double underline to indicate additions and ~~double striketrough~~ to indicate deletions. Only these double underlined and ~~double striketrough~~ modifications are subject to comment during this comment period. Only text with proposed 15-day modifications are included in this attachment. For all amendments to TP-901 approved by the Board during the December 9, 2021, hearing, refer to [Staff Report: Initial Statement of Reasons Appendix C](#). The symbol “\* \* \* \* \*” indicates that intervening text for which modifications are not proposed is not shown. [Bracketed text] is not part of the proposed amendments. Final page numbers subject to change upon Office of Administrative Law approval.]

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## Small Off-Road Engine Evaporative Emissions Test Procedure

### TP-901

#### Test Procedure for Determining Permeation Emissions from Small Off-Road Engine Fuel Tanks

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#### 7. ~~CALIBRATION PROCEDURE~~Calibration Procedure

All instruments and equipment used in this procedure shall be calibrated at the time interval specified by the manufacturer or more often as needed per manufacturer instructions (e.g., if equipment undergoes repair).

The balance listed in section 5(~~b~~)(a) shall be calibrated annually per the balance manufacturer’s instructions, or more often as needed per the manufacturer instructions (e.g., if the balance is moved), using National Institute of Standards and Technology (NIST) *Système International d’Unités* (SI)-traceable mass standards through National Institute of Standards and Technology (NIST) or another member of the Mutual Recognition Arrangement of the *Comité International des Poids et Mesures* (CIPM MRA). The ~~NIST SI~~-traceable mass standards shall be calibrated annually by an independent organization or more often as needed.

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## 9. ~~PRECONDITIONING PROCEDURE~~Preconditioning Procedure

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Data documenting that permeation emissions from the fuel tanks will not increase with further preconditioning must be provided for tanks soaked less than 140 days as follows: seal each fuel tank as described in section 10 of this test procedure, and either 1) perform a gravimetric permeation test on each fuel tank as described in section 11 of this procedure, and calculate the coefficient of determination,  $r^2$ , as described in section 11.(a)(8) of this test procedure; or 2) perform two permeation tests with a FID, as described in section 12 of this procedure, on each fuel tank separated by at least 15 days, and calculate the permeation rate as described in section 14 of this test procedure. The coefficient of determination for a gravimetric permeation test used to demonstrate that permeation emissions from the fuel tanks will not increase with further preconditioning must be equal to or greater than 0.95 without any rounding. The permeation rate measured in the second of two permeation tests with a FID separated by at least 15 days that are used to demonstrate permeation emissions from the fuel tanks will not increase with further preconditioning must be no greater than the permeation rate measured in the first test. Fuel tanks shall continue to be preconditioned at a temperature that never falls below 38 °C between permeation tests. The time of the durability demonstration in section 8.2 through 8.5 of this procedure may be counted as part of the preconditioning procedure if the ambient temperature remains within the specified temperature range ( $\geq 38$  °C), ~~the same fuel cap is used throughout the durability demonstration and preconditioning period,~~ and each fuel tank is at least 50 percent full; fuel may be added or replaced as needed to conduct the specified durability tests. Record the fuel fill amount and dates on the test report if fuel is added or replaced. Drain the fuel tank and refill with fresh test fuel to nominal capacity 15 days prior to ending preconditioning. The fuel tank must not be empty for more than 15 minutes. Record the date and time the fuel tank is drained and refilled with fresh test fuel, and record the fuel fill amount on the test report.

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