

ATTACHMENT 1

PROPOSED 15-DAY CHANGES TO THE REGULATION ORDER

Amend sections 2750, 2751, 2752, 2753, 2754, 2754.1, 2754.2, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2767.1, 2768, 2769, 2770, 2771, 2772, 2773, title 13, California Code of Regulations, and adopt section 2774, to read as follows:

(Note: This attachment shows modifications to the originally proposed regulatory language. The originally proposed amendments are shown in underline to indicate additions and ~~strikeout~~ to indicate deletions from the existing regulatory text. The suggested modifications to the proposed regulation are shown in shaded double underline to indicate additions and ~~shaded double strikeout~~ to indicate deletions.)

Chapter 15. Additional Off-Road Vehicles and Engines Pollution Control Requirements

Article 1. Evaporative Emission Requirements for Off-Road Equipment

§2750. Purpose.

The purpose of these regulations is to:

- (a) Set ~~performance~~evaporative emission standards for gasoline-fueled, spark-ignited small off-road engines rated at equal to or less than 19 Kilowatts, and equipment utilizing such engines;
- (b) In order to give manufacturers maximum flexibility, ~~compliance~~certification programs are available beginning the 2006 model year. The two options are identified in section 2754(a) and in section 2754(b), and ~~assume~~require running loss emissions ~~are to be~~ controlled during engine operation, which results in greater evaporative emissions reductions. Manufacturers must select one option for each evaporative family they certify.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2751. Applicability.

- (a) For the model year engines or equipment subject to this Article, no person shall:
 - (1) manufacture for sale or lease for use or operation in California, or
 - (2) sell or lease or offer for sale or lease for use or operation in California, or

- (3) deliver or import into California for introduction into commerce in California, without an evaporative emission control system that has been certified and labeled pursuant to this Article.

(b) No person shall:

- (1) manufacture for sale or lease for use or operation in California, or
- (2) sell or lease or offer for sale or lease for use or operation in California, or
- (3) deliver or import into California for introduction into commerce in California, any component of an evaporative emission control system subject to this Article unless that component has been certified, either by itself or as part of an evaporative emission control system, and labeled pursuant to this Article. Starting January 1, 2020, it is presumed that replacement components are subject to this Article if they are capable of being used on an evaporative emission control system on a small off-road engine regulated under this Article.

(bc) This Article does not apply to:

- (1) engines or equipment that use compression-ignition engines, or engines or equipment powered with compressed natural gas (CNG), propane, liquefied petroleum gas (LPG), or liquefied natural gas (LNG).
- (2) engines or equipment that use small off-road engines manufactured in California for sale and use outside of California.
- (3) snowthrowers or ice augers.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2752. Definitions.

- (a) The definitions in section 2401 (a), and section 2403 (b), Chapter 9, Title 13 of the California Code of Regulations, apply to this Article with the following additions:

~~(1) “Coextruded Multilayer Fuel Tank” means a multi-layered high density polyethylene fuel tank with a continuous nylon or ethylene vinyl alcohol layer(s) present within the walls of the tank.~~

(1) “ANSI/OPEI B71.10-2013” means ANSI/OPEI B71.10-2013, *American National Standard for Off-Road Ground-Supported Outdoor Power Equipment – Gasoline Fuel Systems – Performance Specifications and*

Test Procedures, published August 26, 2013, and which is incorporated by reference in this Article.

- (2) “CP-901” means ~~“Certification and Approval Procedures for Small Off-Road Engine Fuel Tanks”~~ Certification Procedure for Evaporative Emission Control Systems on Engines With Displacement Less Than or Equal to 80 Cubic Centimeters, adopted July 26, 2004, and amended MMMM DD, YYYY.
- (3) “CP-902” means ~~“Certification and Approval Procedures for Evaporative Emission Control Systems”~~ Certification Procedure for Evaporative Emission Control Systems on Engines With Displacement Greater Than 80 Cubic Centimeters, adopted July 26, 2004, and amended MMMM DD, YYYY.
- (4) “Diurnal Emissions” means evaporative emissions resulting from the daily cycling of ambient temperatures and include resting losses, and permeation emissions, as measured according to test procedures incorporated in this Article.
- (5) ~~“Equivalent Fuel Tank” means a metal or coextruded multilayer fuel tank used on a small off-road engine. Fuel tanks approved per section 2767 are also deemed equivalent fuel tanks. The volume of an equivalent tank must be less than or equal to a nominal tank. An equivalent tank must be functionally equivalent to a nominal tank.~~
- (65) “Equivalent Fuel Line” means a fuel line that permeates less than the nominal fuel line being replaced and less than or equal to 15 grams of FROG per square meter of surface area in contact with fuel per day when tested per SAE J1737 (Stabilized May 2013), SAE J30, SAE J1527, or, only for fuel lines with inner diameter 4.75 mm or less, SAE J2996 at 40°C or higher, and ambient pressure using LEV III certification gasoline. The fuel defined in 40 CFR Part 1065.710(b) for general testing or Phase II California Reformulated Certification (CERT) fuel, CE10, CM10, CM15, or Indolene may be used as an alternative test fuel.
- (76) “Evaporative Emissions” means emissions that result from the evaporation of ~~reactive~~ total organic gases into the atmosphere.
- (87) “Evaporative Emission Control System” means the fuel system and associated components that are designed to control evaporative emissions.
- (98) “Evaporative Family” means ~~a class of~~ small off-road engines or equipment models in the same engine class that are grouped together based on similar fuel system characteristics as they relate to evaporative

emissions. For equipment engines with displacement less than or equal to 80 cubic centimeters (cc), all models using fuel tanks and fuel lines constructed by the same process with the same material and the same permeation control may be grouped into one evaporative family~~the engine family and evaporative family are considered equivalent~~. For integrated equipment greater than 80 cc ~~t~~The engine family and the evaporative family may be considered equivalent at the manufacturer's discretion.

(409) "Evaporative Model Emission Limit (EMEL)" means the diurnal emissions ~~level~~rate declared by the manufacturer for a model within an evaporative family. The declared ~~level~~rate must be based on diurnal emissions test results for ~~a worst case~~the model of engine or equipment within the evaporative family that is expected to exhibit the highest diurnal emission rate relative to the applicable diurnal emission standard, obtained by following Test Procedure 902.

(410) "Evaporative Family Emission Limit Differential (EFELD)" means the emission ~~level~~rate differential between the ~~effective standard level~~diurnal emission standard in Table 1 of section 2754(a) for a specific~~the model of engine or equipment within the evaporative family that is expected to exhibit the highest diurnal emission rate relative to the applicable diurnal emission standard~~ and the EMEL declared for the model ~~and is applicable to the entire evaporative family represented by the model.~~

(4211) "Executive Order of Certification" means an order signed by the Executive Officer that documents certification of evaporative emission control systems on engines or equipment to the ~~performance~~evaporative emission standards of this Article.

(12) "Fuel line" means hose or tubing designed to contain liquid fuel (including molded hose or tubing). This does not include any of the following:

(A) Fuel tank vent lines;

(B) Segments of hose or tubing whose external surface is normally exposed to liquid fuel inside the fuel tank;

(C) Hose or tubing designed to return unused fuel from the carburetor to the fuel tank that does not continuously contain liquid fuel for handheld engines; and

(D) Primer bulbs that contain liquid fuel only for priming the engine before starting.

~~(1312)~~ "Holder" means the person to whom the Executive Order of Certification is issued.

- ~~(1413)~~ “Hot Soak Emissions” means evaporative emissions that occur for the one-hour period following the termination of engine operation.
- (15) ~~“Hydrocarbon” means a molecule composed primarily of carbon and hydrogen atoms.~~
- ~~(1415)~~ “LEV III certification gasoline” means certification gasoline fuel for LEV III light-duty vehicles and medium-duty vehicles as defined in part II, section A.100.3.1.2 of the *California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light Duty Trucks, and Medium-Duty Vehicles*, as last amended September 2, 2015.
- ~~(1615)~~ “Manufacturer” means either an engine manufacturer or equipment manufacturer.
- ~~(1716)~~ “Nominal Capacity” means the volume of fuel indicated by the manufacturer that represents the maximum recommended fill level.
- (18) ~~“Nominal Fuel Tank” means the fuel tank that is used by an engine or equipment manufacturer to certify the evaporative emissions control system on a small off-road engine.~~
- ~~(191718)~~ “Nominal Fuel Line” means the fuel line that is used by an engine or equipment manufacturer to certify the evaporative emissions control system on a small off-road engine.
- ~~(19)~~ “Organic material hydrocarbon equivalent” means the total mass of hydrocarbon molecules, ethanol, and other organic compounds, as measured under the test procedures incorporated in this Article.
- ~~(2018)~~ “Permeation Emissions” means evaporative emissions that result from ~~reactive~~total organic gas molecules penetrating through the walls of fuel system components and evaporating on outside surfaces, as measured by test procedures incorporated in this Article. Permeation emissions are a component of diurnal emissions, as measured by test procedures incorporated in this Article.
- ~~(2119)~~ “Permeation Rate” means the total mass of ~~reactive~~total organic gas molecules passing through the internal surface area of a fuel tank or fuel line in a 24-hour period, as measured by test procedures incorporated in this Article.

(22) "Person" means any individual, association, partnership, limited liability company, or corporation.

(22) "Production Volume" means the number of engines or equipment units, subject to the requirements of this Article, produced in an evaporative family for which the Holder has a reasonable basis to conclude that sale was or may be made to ultimate purchasers in California. A Holder may estimate production volume through market analysis. An educated and consistent estimate with the best available documentation will be acceptable as the final report of production volume in California.

(23) "Reactive Organic Gases (ROG)" means any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, and excluding the following:

	<u>CAS³</u>
<u>(1) methane:</u>	<u>[74-82-8]</u>
<u>methylene chloride (dichloromethane):</u>	<u>[75-09-2]</u>
<u>1,1,1-trichloroethane (methyl chloroform):</u>	<u>[71-55-6]</u>
<u>trichlorofluoromethane (CFC-11):</u>	<u>[75-69-4]</u>
<u>dichlorodifluoromethane (CFC-12):</u>	<u>[75-71-8]</u>
<u>1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113):</u>	<u>[76-13-1]</u>
<u>1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114):</u>	<u>[76-14-2]</u>
<u>chloropentafluoroethane (CFC-115):</u>	<u>[76-15-3]</u>
<u>chlorodifluoromethane (HCFC-22):</u>	<u>[75-45-6]</u>
<u>1,1,1-trifluoro-2,2-dichloroethane (HCFC-123):</u>	<u>[306-83-2]</u>
<u>2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124):</u>	<u>[2837-89-0]</u>
<u>1,1-dichloro-1-fluoroethane (HCFC-141b):</u>	<u>[1717-00-6]</u>
<u>1-chloro-1,1-difluoroethane (HCFC-142b):</u>	<u>[75-68-3]</u>
<u>trifluoromethane (HFC-23):</u>	<u>[75-46-7]</u>
<u>pentafluoroethane (HFC-125):</u>	<u>[354-33-6]</u>
<u>1,1,2,2-tetrafluoroethane (HFC-134):</u>	<u>[359-35-3]</u>
<u>1,1,1,2-tetrafluoroethane (HFC-134a):</u>	<u>[811-97-2]</u>
<u>1,1,1-trifluoroethane (HFC-143a):</u>	<u>[420-46-2]</u>
<u>1,1-difluoroethane (HFC-152a):</u>	<u>[75-37-6]</u>
<u>ethoxy nonafluorobutane (HFE 7200):</u>	
<u>trans-1,3,3,3-tetrafluoropropene (HFO-1234ze):</u>	
<u>cyclic, branched, or linear completely methylated siloxanes:</u>	<u>[various]</u>
<u>the following classes of perfluorocarbons:</u>	<u>[various]</u>
<u>(A) cyclic, branched, or linear, completely fluorinated alkanes:</u>	
<u>(B) cyclic, branched, or linear, completely fluorinated ethers with no unsaturations:</u>	

(C) — cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and

(D) — sulfur-containing perfluorocarbons with no unsaturations and with the sulfur bonds only to carbon and fluorine; and

(2) the following low-reactive organic compounds which have been exempted by the U.S. EPA:

acetone:

[67-64-1]

ethane:

[74-84-0]

methyl acetate:

[79-20-9]

perchloroethylene; and

[127-18-4]

parachlorobenzotrifluoride (1-chloro-4-trifluoromethyl benzene):

[98-56-6]

3,3-dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca):

1,3-dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb):

1,1,1,2,3,4,4,5,5,5-decafluoropentane (HFC 43-10mee):

difluoromethane (HFC-32):

fluoroethane (ethyl fluoride or HFC-161):

1,1,1,3,3,3-hexafluoropropane (HFC-236fa):

1,1,2,2,3-pentafluoropropane (HFC-245ca):

1,1,2,3,3-pentafluoropropane (HFC-245ea):

1,1,1,2,3-pentafluoropropane (HFC-245eb):

1,1,1,3,3-pentafluoropropane (HFC-245fa):

1,1,1,2,3,3-hexafluoropropane (HFC-236ea):

1,1,1,3,3-pentafluorobutane (HFC-365mfc):

chlorofluoromethane (HCFC-31):

1-chloro-1-fluoroethane (HCFC-151a):

1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a):

1,1,1,2,2,3,3,4,4-nonafluoro-4-methoxy-butane (C₄F₉OCH₃ or HFE-7100):

2-(difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane ((CF₃)₂CFCF₂OCH₃):

1-ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane (C₄F₉OC₂H₅ or HFE-7200):

2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoropropane ((CF₃)₂CFCF₂OC₂H₅):

1,1,1,2,2,3,3-heptafluoro-3-methoxy-propane (n-C₃F₇OCH₃, HFE-7000):

3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl)-hexane (HFE-7500):

1,1,1,2,3,3,3-heptafluoropropane (HFC 227ea):

methyl formate (HCOOCH₃):
1,1,1,2,2,3,4,5,5,5-decafluoro-3-methoxy-4-
trifluoromethyl-pentane (HFE-7300):
propylene carbonate:
dimethyl carbonate:
HCF₂OCF₂H (HFE-134):
HCF₂OCF₂OCF₂H (HFE-236cal2):
HCF₂OCF₂CF₂OCF₂H (HFE-338pcc13):
HCF₂OCF₂OCF₂CF₂OCF₂H (H-Galden 1040x or
H-Galden ZT 130 (or 150 or 180)):
trans 1-chloro-3,3,3-trifluoroprop-1-ene:
2,3,3,3-tetrafluoropropene; and
2-amino-2-methyl-1-propanol.

* NOTE: Chemical Abstract Service (CAS) identification numbers have been included in brackets [] for convenience.

(2420) “Running Loss Emissions” means evaporative emissions from a small off-road engine that occur while it is being operated.

(25) “SAE J30” means SAE J30, *Fuel and Oil Hoses*, Revised February 2012.

(26) “SAE J1527” means SAE J1527, *Marine Fuel Hoses*, Revised February 2011.

(27) “SAE J1737” means SAE J1737, *Test Procedure to Determine the Hydrocarbon Losses from Fuel Tubes, Hoses, Fittings, and Fuel Line Assemblies by Recirculation*, Stabilized May 2013.

(28) “SAE J2996” means SAE J2996, *Small Diameter Fuel Line Permeation Test Procedure*, Issued January 2013.

(252429) “SHED” (Sealed Housing Evaporative Determination) means the enclosure and associated equipment used to determine evaporative emissions. A SHED must meet the design specifications in 40 Code of Federal Regulations Part 86.107-96.

(2630) “Small Production Volume Tank Exemption” applies to all models with identical tanks produced by an engine or equipment manufacturer with total California sales production volume of 400 or fewer units per year.

(27) “Structurally Integrated Nylon Fuel Tank” means a fuel tank having the following characteristics:

(A) The fuel tank is made of a polyamide material which:

1. ~~does not contain more than 50 percent by weight of a reinforcing glass fiber and/or mineral filler; and~~
2. ~~does not contain more than 10 percent by weight of impact modified polyamides which use rubberized agents such as EPDM rubber~~

(B) The fuel tank must be:

1. ~~used in a chainsaw; or~~
2. ~~of a pre-existing design that is substantially similar to a current production fuel tank used by the same manufacturer that is integrated into a major structural member where, as a single component, the fuel tank material is a primary structural/stress member for other major components such as the engine, transmission or cutting attachment.~~

~~(282231)~~ “TP-901” means “~~Test Procedure for Determining Permeation Emissions from Small Off-Road Engine Equipment Fuel Tanks,~~” Test Procedure for Determining Permeation Emissions from Small Off-Road Engine Fuel Tanks, adopted July 26, 2004, and amended MMMM DD, YYYY.

~~(292332)~~ “TP-902” means “~~Test Procedure for Determining Diurnal Evaporative Emissions from Small Off-Road Engines,~~” Test Procedure for Determining Diurnal Evaporative Emissions from Small Off-Road Engines, adopted July 26, 2004, and amended MMMM DD, YYYY.

(30) “~~Total Hydrocarbons~~” means ~~the total mass of open chain and cyclic hydrocarbon molecules, as measured under the test procedures incorporated in this Article.~~

~~(24)~~ “~~Total Organic Gases (TOG)~~” means ~~compounds of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate.~~

~~(312533)~~ “Walk-Behind Mower” means a grass-cutting product which has:

- (A) A Class I vertical shaft engine that includes a blade brake mechanism that provides for compliance with ANSI B71.1 requirements; or
- (B) A horizontally fixed blade and/or string directly attached to the crankshaft of a vertical shaft engine.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2753. Certification Requirements and Procedures.

(a) Certification.

Small off-road engines or equipment that use small off-road engines subject to this Article must contain evaporative emission control systems. ~~For engines less than or equal to 80 cc, the evaporative emission control system consists of the fuel tank only.~~ The evaporative emission control systems must be certified annually to the ~~performance-based or system design~~ evaporative emission standards set out in sections 2754 through 2757 of this Article by the Air Resources Board. An Executive Order of Certification for such engines or equipment must be obtained prior to the sale or lease, or the offering for sale or lease, for use or operation in California or the delivery or importation for introduction into commerce in California. Engine manufacturers or equipment manufacturers may apply for an Executive Order of Certification. For model years 2006-2019, Applicants must follow the certification procedures outlined in CP-901, *Certification and Approval Procedure for Small Off-Road Engine Fuel Tanks*, adopted July 26, 2004, or CP-902, *Certification and Approval Procedure for Evaporative Emission Control Systems*, adopted July 26, 2004, as applicable, which are incorporated by reference herein. For model year 2020 and subsequent model years, applicants must follow the certification procedures outlined in CP-901, adopted July 26, 2004, and amended MMMM DD, YYYY, or CP-902, adopted July 26, 2004, and amended MMMM DD, YYYY, as applicable, which are incorporated by reference herein. For model year 2018 and 2019, an applicant may follow the certification procedures outlined in CP-901, adopted July 26, 2004, and amended MMMM DD, YYYY, or CP-902, adopted July 26, 2004, and amended MMMM DD, YYYY, as applicable, in lieu of those in CP-901, adopted July 26, 2004, or CP-902, adopted July 26, 2004, as applicable. An applicant must also meet the bond requirements in section 2774 before an Executive Order of Certification will be issued for model year 2020 and subsequent model year evaporative families.

(b) Certification of Complete Systems for Engines or Equipment using engines with displacement greater than 80 cc.

Certification of a complete evaporative emission control system is required. ~~An applicant application for certification of an evaporative emission control system that complies with the diurnal standards specified in section 2754(a), or section 2757 must submit diurnal evaporative emission data for an engine or equipment that exhibits the highest evaporative emission characteristics for an evaporative family as part of the certification application.~~ to the diurnal emission standards in section 2754 or 2757 of this Article must include a determination of the engine or equipment models in the evaporative family that are expected to exhibit the highest and lowest diurnal emission rates relative to the applicable diurnal emission standards and detail the criteria used to make that

determination. The applicant must also include one of the following for the engine or equipment model in the evaporative family that is expected to exhibit the highest diurnal emission rate relative to the applicable diurnal emission standard:

- (1) ~~An applicant for certification of an evaporative emission control system that complies with the fuel hose permeation standard specified in section 2754(a) must submit fuel hose permeation data for model year 2006 equipment as part of the certification application. Alternatively, manufacturers may submit the Executive Order number approving the component pursuant to section 2767.1 of this Article. Diurnal emission test results, determined using TP-902;~~
- (2) ~~An applicant for certification of an evaporative emission control system that complies with the design standards specified in section 2754(b) must submit~~All of the following:
 - (A) fuel tank permeation data, determined using TP-901,
 - (B) fuel hose permeation data, determined using SAE J1737 (Stabilized May 2013), SAE J30, SAE J1527, or, only for fuel lines with inner diameter 4.75 mm or less, SAE J2996, and
 - (C) carbon canister butane working capacity data determined using TP-902 or equivalent for an engine or equipment that exhibits the highest evaporative emission characteristics for an evaporative family as part of the certification application. Alternatively, manufacturers may submit; or
- (3) ~~†The Executive Order numbers approving the component~~fuel tank, fuel line, and carbon canister pursuant to section 2767.1 of this Article.

- (3c) Certification of Complete Systems for Engines or Equipment using engines with displacement less than or equal to 80 cc.
~~An applicant~~application for certification of an evaporative emission control system that complies withto the fuel tank permeation standards specified in section 2755 or 2757 ~~must submit~~include fuel tank permeation data for the fuel tank in the evaporative family that is expected to exhibit the highest permeation rate relative to the applicable permeation emission standard~~evaporative emission characteristics for an evaporative family as part of the certification application. For engines less than or equal to 80 cc, the manufacturer need only test the tank with the most surface area for all evaporative families with the same material/process. These certification test results can then be used in the certification of other tanks/engine families constructed of the same materials/processes. The application shall also detail the criteria used to determine which fuel tanks in the evaporative family~~ are expected to exhibit the highest and lowest permeation rates relative to the applicable permeation emission standards.

- (4) ~~TP-901, adopted July 26, 2004, is used to determine fuel tank permeation. TP-902, adopted July 26, 2004, is used to determine the evaporative emissions from engines or equipment with complete evaporative emission control systems.~~

(ed) Modifications to the Evaporative Emission Control System.

For previously certified evaporative emission control systems:

- (1) ~~Manufacturers are allowed to~~ Holders may replace the nominal fuel tank and/or nominal fuel line of a certified evaporative emission control system that ~~complies with the performance-based standards specified in section 2754~~for which diurnal emission test results were submitted as part of the certification application with an equivalent fuel tank and/or equivalent fuel line. All other evaporative emission control components in a system that ~~complies with the performance-based standards in section 2754~~ must function similarly and have equivalent or better performance to those components used to ~~certify the control system.~~
- (2) Modification of any certified evaporative emission control systems in any manner other than replacement of the nominal tanks and/or fuel lines with equivalent fuel tanks and/or fuel lines invalidates the certification of the control system. When any evaporative emission control system's certification is invalidated due to an unapproved modification, a new certification is required per CP-902, adopted July 26, 2004, or CP-902 adopted July 26, 2004, and amended MMM DD, YYYY, as applicable, depending on the model year.
- (3) ~~Manufacturers are required to~~ Holders shall notify the Executive Officer in writing of any modification of any certified evaporative emission control system. The notification must include a statement citing the basis for the equivalent fuel tank and/or fuel line determination.

(de) Reduced Certification Requirements.

Manufacturers meeting the requirements of section 2766 of this Article must be certified annually by the Air Resources Board by submitting a Letter of Conformance. The Letter of Conformance must include, at a minimum, a statement citing the basis for complying with section 2766. An Executive Order of Certification for such engines or equipment must be obtained prior to the sale or lease, or the offering for sale or lease, or the delivery or importation for introduction into commerce in California of such engines or equipment in California.

~~(f) Beginning in model year 2020, an applicant who has not held an Executive Order of Certification for an evaporative emission control system on a small off-road engine with displacement greater than 80 cc for a previous model year must submit diurnal emission test results, determined using TP-902 for all evaporative families using engines with displacement greater than 80 cc, as described in (b) of this section.~~

(g) A Holder whose Executive Order has been suspended or revoked must submit diurnal emission test results, determined using TP-902, for all evaporative families using engines with displacement greater than 80 cc, as described in (b) of this section, according to the following schedule:

- (1) For one model year after the first finding of noncompliance;
- (2) for five model years after the second finding of noncompliance; and
- (3) for ten model years after any subsequent finding of noncompliance.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2754. ~~Evaporative~~Diurnal Emission Performance and Design Standards.

(a) ~~The~~ Table 1 below specifies the ~~evaporative~~diurnal emission performance and design standards for small off-road engines, and equipment that use small off-road engines, with displacements greater than 80 cc, on and after the model years indicated.

Table 1
Evaporative Diurnal Emission and Design Standards

Effective Date Model Year	Performance Requirements Section 2754(a) ⁴ Diurnal Emission Standards Grams HC/day (g TOG organic material hydrocarbon equivalent·day ⁻¹)	Design Standards Requirements Section 2754(b)		
		Fuel Hose Line Permeation Emission Standard ¹ Grams ROG/m ² /day (g ROG ·m ⁻² ·day ⁻¹)	Fuel Tank Permeation Emission Standard Grams ROG/m ² /day (g ROG ·m ⁻² ·day ⁻¹)	Carbon Canister ³ or Equivalent Butane Working Capacity Standard Grams HC (g TOG organic material hydrocarbon equivalent)
Displacement Category: Walk-Behind Mowers >80 cc - <225 cc				
2006	None	15	None	None
2007 and 2008	1.3	N/A	N/A	N/A
2009	1.0	N/A	N/A	N/A
Displacement Category: Non-Walk-Behind Mowers > 80 cc - < 225 cc (except Walk-Behind Mowers)				
2006	None	15	None	None
2007 through 2011	$1.20 + 0.056 \cdot \text{tank vol.} \cdot \text{nominal capacity (liters)}$	15	2.5	Specified in TP-902
2012	$0.95 + 0.056 \cdot \text{tank vol.} \cdot \text{nominal capacity (liters)}$	15	1.5	Specified in TP-902
Displacement Category: ≥ 225 cc				
2006 and 2007	None	15	None	None
2008	$1.20 + 0.056 \cdot \text{tank vol.} \cdot \text{nominal capacity (liters)}$	15	2.5	Specified in TP-902
2010 ⁴	None	15	None	Specified in TP-902
2013	$1.20 + 0.056 \cdot \text{tank vol.} \cdot \text{nominal capacity (liters)}$	15	1.5	Specified in TP-902

¹ For model year 2006 only, all engines and equipment with displacements > 80 cc - <225 cc must comply with the fuel hose line permeation emission standard design requirement in section 2754(a)(1)(C). For model years 2006 and 2007, all engines and equipment with displacements greater than or equal to 225 cc must comply with the fuel hose line permeation emission standard design requirement in section 2754(a)(1)(C) for model years 2006 and 2007 only.

² Permeation emissions as determined by TP-901. Permeation emissions must be measured to two significant figures.

³ Canister design requirements and the procedure for determining butane working capacity are specified in TP-902. The Executive Officer may designate technology equivalent to carbon canisters on a case by case basis as part of the certification process per section 2767.

⁴ Applies to small production volume tanks exempted pursuant to section 2766.

- (a) On or after the model year set out in Table 1 of ~~this section 2754~~, ~~evaporative diurnal~~ emissions from any small off-road engine or equipment ~~unit~~ that uses ~~a~~ small off-road engines ~~certifying under this section 2754(a)~~ with displacement greater than 80 cc must not exceed the performance requirements diurnal emission standards specified in Table 1 of this section 2754.
- (4b) ~~Manufacturers~~An applicant certifying engines or equipment to comply with the diurnal emission standards under this section 2754(a) shall do the following:
- (A1) Submit a determination in the certification application that running loss emissions are controlled from being emitted into the atmosphere. The Executive Officer must approve the determination for an Executive Order of Certification to be issued. Approval by the Executive Officer is not required if actively purged carbon canisters meeting the requirements of this article are used.
- (B) ~~Test all evaporative families in accordance with TP-902.~~
- (G2) Provide test data in the certification application showing that all fuel lines exposed to liquid fuel or fuel vapor, except those segments whose external surface is normally exposed to liquid fuel inside the fuel tank and primer bulbs that contain liquid fuel only for priming the engine before starting, meet the permeation requirement of 15 grams/m²/day of TROG per square meter of surface area of the surface in contact with fuel per day when tested with LEV III Certification Gasoline using test procedure SAE J1737 (Issued August 1997 Stabilized May 2013), SAE J30, SAE J1527, or, only for fuel lines with inner diameter 4.75 mm or less, SAE J2996, which are incorporated herein by reference. The permeation testing must be conducted at 40°C, or higher, and ambient pressure using Phase II California Reformulated Certification (CERT) fuel, CE10, CM15, or Indolene. The fuel defined in 40 CFR Part 1065.710(b) for general testing or CE10 may be used as an alternative test fuel. Alternatively, manufacturers can submit the Executive Order number approving the ~~component~~fuel lines pursuant to section 2767.1 of this Article.
- (b) ~~On or after the model year set out in Table 1 of section 2754~~, ~~evaporative emissions from any small off-road engine or equipment that use small off-road engines certifying under this section 2754(b)~~ must not exceed the design requirements specified in Table 1 of ~~section 2754~~.

- (1c) ~~Manufacturers~~An applicant certifying engines or equipment to comply with the diurnal emission standards under this section 2754(b) shall also do one of the following:
- (A) ~~Submit a determination in the certification application that the running loss emissions are controlled from being emitted into the atmosphere. The Executive Officer must approve the determination before an Executive Order of Certification can be issued. Approval by the Executive Officer is not required if actively purged carbon canisters meeting the requirements of this article are used.~~
 - (1) Provide diurnal emission test data for the engine or equipment model in the evaporative family that is expected to exhibit the highest diurnal emission rate relative to the applicable diurnal emission standard, in accordance with TP-902; or
 - (B2) Provide test data in the certification application showing that the fuel tank and carbon canister meet the applicable design requirements standards listed in Table 1 of this section. Provide test data in the certification application showing that fuel lines meet the permeation requirement of 15 grams/m²/day using test procedure SAE J1737 (Issued August 1997). The permeation testing must be conducted at 40°C, or higher, and ambient pressure using Phase II California Reformulated Certification (CERT) fuel, GE10, CM15, or Indolene. ~~Alternatively, manufacturers an applicant can submit the Executive Order numbers approving the component~~ fuel tank and carbon canister pursuant to section 2767.1 of this Article.
 - (d) For model year 2020 and subsequent model years, if carbon canisters are used in an evaporative emission control system, they must be installed in a way that prevents exposing the carbon to water or liquid fuel.
 - (e) For model year 2020 and subsequent model years, All fuel lines must be securely connected to prevent fuel leakage throughout the useful life of the evaporative emission control system. Fuel line assembly testing shall be conducted in accordance with the Fuel Line Assembly Tensile Test in section 5.4 of ANSI/OPEI B71.10-2013, which is incorporated by reference herein.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2754.1. Certification Averaging and Banking.

- (a) Applicability - The averaging requirements specified in this section 2754.1 apply only to engines or equipment with complete evaporative emission control systems certified to the diurnal emission performance standards specified in section 2754(a) or 2757 of this Article and tested according to TP-902. Participation in the certification averaging and banking program is voluntary. The provisions of this section are applicable only for determining compliance with this section.
- (b) General Provisions.
- (1) The certification averaging and banking provisions for diurnal emissions from eligible engines and equipment are described in this section.
 - (2) A ~~manufacturer~~Holder of an Executive Order for an evaporative family subject to this Article may use the averaging and banking provisions of this section 2754.1 for the purpose of creating diurnal emissions credits.
 - (3) A ~~manufacturer~~Holder shall not include in its calculation of credit generation and may exclude from its calculation of credit usage, any new engines or equipment not subject to this Article.
 - (4) A ~~manufacturer~~Holder may include its entire inventory of an evaporative family subject to this Article in calculating the diurnal emissions credit for a given model year.
 - (5) A ~~manufacturer~~Holder shall certify ~~each model within an~~ evaporative families~~family~~ to an EMEL and shall determine an Evaporative Family Emission Limit Differential (EFELD) ~~for each model in an evaporative family.~~ The EFELD is ~~declared~~calculated by an engine or equipment ~~manufacturer~~Holder and can be positive or negative subject to the limitation in subsections (b)(6) and (b)(7) of this section, provided the sum of the ~~manufacturer's~~Holder's projected balance of credits from all credit transactions for each engine class in a given model year is greater than or equal to zero, as determined under subsection (e). The EFELD is determined based on the diurnal test results, in accordance with TP-902, of the worst case model of engine or equipment within an evaporative family expected to exhibit the highest diurnal emission rate relative to the applicable diurnal emission standard. ~~The worst case model of engine or equipment is defined as the engine or equipment expected to produce the highest negative or the smallest positive EFELD within the family on a per unit basis.~~ The EFELD is calculated by setting the EMEL for the model of engine or equipment tested at a level above the diurnal test results and then subtracting the EMEL from the applicable diurnal emission standard level for the model.
 - (A) A ~~manufacturer~~Holder of an Executive Order for an evaporative family with a negative EFELD shall obtain positive emission credits

sufficient to address the associated credit shortfall within the time period set out in (8) below.

- (B) An evaporative family with a positive EFELD may generate positive emission credits for averaging, or banking, or a combination thereof.
- (6) No walk-behind mowers within an evaporative family may have ~~diurnal emissions~~ an EMEL greater than 1.5 times the applicable diurnal standard in section 2754(a).
- (7) No model of Class I or Class II engine or equipment (excluding walk-behind mowers) within an evaporative family may have ~~diurnal emissions~~ an EMEL greater than 3.0 times the applicable diurnal standard in section 2754(a).
- (8) A ~~manufacturer~~ Holder must demonstrate compliance with this section within 270 days of the end of the model year.
- (9) No new Executive Order of Certifications will be issued to the ~~manufacturer~~ Holder until a plan to make up the emissions deficit plus a penal amount of 25% of the deficit has been approved by the Executive Officer.
- (10) The failure of a ~~manufacturer~~ Holder to comply with the diurnal emissions standards in accordance with this section 2754.1 shall be grounds for revocation or suspension of the Executive Order of Certification in accordance with section 2770. A revocation under this provision shall be deemed to revoke the Executive Order of Certification *ab initio*.
- (11) The failure of a ~~manufacturer~~ Holder to submit the plan required in subsection (b)(9) above within 270 days of the end of a model year shall be grounds for revocation or suspension of the Executive Order of Certification in accordance with section 2770. A revocation under this provision shall be deemed to revoke the Executive Order of Certification *ab initio*.
- (c) Averaging.
- (1) Negative credits from evaporative families with negative EFELDs must be offset by positive credits from evaporative families having positive EFELDs, as allowed under the provisions of this section. Averaging of credits in this manner is used to determine compliance under subsection (e)(2).

- (2) Subject to the provisions in subsection (b)(9), credits used in averaging for a given model year may be obtained from credits generated in the same model year by another evaporative family, or credits banked in previous model years. The restrictions of this subsection notwithstanding, credits from a given model year may be used to address credit needs of previous model year engines.
- (d) Banking.
- (1) Beginning with the 2007 model year, a ~~manufacturer~~ Holder of an Executive Order for an evaporative family with a positive EFELD for model year 2007 and subsequent engines and equipment may bank credits in that model year for use in averaging. Positive credits may be banked only according to the requirements of subsection (e)(1) of this section.
- (2) A ~~manufacturer~~Holder may bank emission credits only after the end of the model year and after ARB has reviewed the ~~manufacturer's~~ Holder's end-of-year reports. During the model year and before submittal of the end-of-year report, credits originally designated in the certification process for banking will be considered reserved and may be redesignated for averaging in the end-of-year report and final report.
- (3) A ~~manufacturer~~Holder may use credits claimed from a previous model year that have not been approved by the ARB, in an averaging calculation pending the review of the ARB. In the event such review does not substantiate the amount of credits claimed, an Executive Order will not be issued until a plan to make up the emissions deficit has been approved by the Executive Officer.
- (4) Commencing with the 2018 model year, any previously banked diurnal emission credits and any new diurnal emission credits earned can be used for up to five years. In the sixth year, any unused diurnal credits will expire. (For example, if a 2018 model year evaporative family earns diurnal emission credits, those diurnal emission credits may be used or banked until the 2023 model year. Any remaining banked diurnal emission credits earned within the 2018 model year will be invalid for use in the 2024 and subsequent model years.)
- (e) Credit Calculation and ~~Manufacturer~~Holder Compliance with Emission Standards.
- (1) For each evaporative family, diurnal emission credits (positive or negative) are to be calculated according to the following equations and rounded to the nearest tenth of a gram. Consistent units with two significant digits are to be used throughout the equations.

EFELD = Applicable diurnal emission standard level – EMEL

Credits = EFELD ~~xx~~ Sales/Production Volume

Where:

EMEL = the declared evaporative model emission limit for the model tested within the evaporative family in grams

EFELD = the ~~smallest positive or largest negative~~ calculated evaporative family emission limit differential in for the evaporative family in grams

Production Volume is as defined in section 2752(a)(21)

~~Sales = the total Sales for all models within a given evaporative family~~

~~Sales or Eligible Sales means the actual or calculated sales of an evaporative family in California for the purposes of averaging and banking. Upon Executive Officer approval, an engine or equipment manufacturer Holder may calculate its eligible sales through market analysis. Because of the multiple steps in the product distribution chain and confidential nature of sales information for many retailers and original equipment manufacturers, a Holder may calculate its eligible sales through market analysis. An educated and consistent estimate with the best available documentation will be acceptable as the final report of sales in California. Actual sales are sales calculated at the end of a model year on that model year's production, rather than estimates of production. Actual sales volume is used in determining actual credits for end-of-year compliance determination.~~

- (2) ~~Manufacturer~~ Holder compliance with this section is determined on a corporate average basis at the end of each model year.
A ~~manufacturer~~ Holder is in compliance when the sum of positive and negative emission credits it holds is greater than or equal to zero.
- (f) Certification Using Credits.
 - (1) For certification relying on averaging or banking of credits, a ~~manufacturer~~ Holder shall:
 - (A) Submit a statement that the engines for which certification is requested will not, to the best of the ~~manufacturer's~~ Holder's knowledge, cause the ~~manufacturer~~ Holder to be in noncompliance under subsection (e)(2) when all credits are calculated for all the ~~manufacturer's~~ Holder's engine evaporative families.

- (B) ~~Declare~~ Calculate an EFELD for ~~each model within each the~~ evaporative family. The EFELD must be calculated to two significant digits.
- (C) Indicate the projected number of emission credits generated/needed for ~~this~~ each evaporative family; based on the projected applicable eligible sales production volume, the EMEL, and the EFELD ~~and the values required to calculate credits as given in section 2754(e).~~
- (D) Submit calculations in accordance with section ~~2754(e)~~ 2754.1(e) of projected emission credits (positive or negative) based on production projections for each evaporative family.
- (E)
 - (i) If the an evaporative family is projected to generate negative emission credits, state specifically the source (~~manufacturer~~Holder/evaporative family or reserved) and quantity of the credits necessary to offset the credit deficit according to projected production.
 - (ii) If the evaporative family is projected to generate positive emission credits, state specifically the recipient (~~manufacturer~~Holder/evaporative family or reserved) and quantity of the credits used to offset a deficit banked according to where the projected credits will be applied.
- (2) ~~The manufacturer~~ A Holder may supply the information required above in section ~~2754(f)(1)(C)~~ 2754.1(f)(1)(C), (D), and (E) by use of a spreadsheet detailing the ~~manufacturer's~~ Holder's annual production plans and the credits generated or consumed by each evaporative family.
- (3) The ~~manufacturer~~ Holder bears the burden of establishing to the satisfaction of the Executive Officer that the conditions upon which the Executive Order was issued were satisfied.
- (4) Projected credits based on information supplied in the certification application may be used to obtain an Executive Order. However, any such credits may be revoked based on review of end-of-year reports, follow-up audits, and any other verification steps considered appropriate by the Executive Officer.
- (g) Maintenance of Records.
 - (1) ~~The manufacturer~~ A Holder shall establish, maintain, and retain the following adequately organized and indexed records for each evaporative family:

- (A) ARB evaporative family identification code_i;
 - (B) ~~Declared EFELD, EMEL for each model within the evaporative family;~~
 - (C) Projected ~~sales~~ salesproduction volume for the model year_i; and
 - (D) Records appropriate to establish the quantities of engines or equipment that constitute eligible ~~sales~~ salesproduction volume for each evaporative family.
- (2) ~~The manufacturer~~ A Holder shall retain all records required to be maintained under this section for a period of eight years from the due date for the end-of-model year report. Records may be retained as hard copy, CD-ROM, diskettes, and so forth, depending on the ~~manufacturer's~~ Holder's record retention procedure; provided, that in every case all information contained in the hard copy is retained.
 - (3) Nothing in this section limits the Executive Officer's discretion in requiring ~~the manufacturer~~ a Holder to retain additional records or submit information not specifically required by this section.
 - (4) ~~A manufacturer~~ Holder shall submit all information requested by the Executive Officer within 30 days of the date of such request.
 - (5) The Executive Officer may revoke or suspend the Executive Order for an evaporative family for which the ~~manufacturer~~ Holder fails to retain the records required in this section or to provide such information to the Executive Officer upon request. No new Executive Orders will be issued to the ~~manufacturer~~ Holder until the requested records are made available and/or a plan that describes the records to be retained as required by this section is approved by the Executive Officer.
- (h) End-of-Year and Final Reports.
- (1) End-of-year and final reports must indicate the evaporative family, the actual ~~sales~~ salesproduction volume, a description of the method used to determine the salesproduction volume, the values required to calculate credits as given in subsection (e), and the number of credits generated/required. ~~Manufacturers~~ Holders shall also submit a description of how and where credit surpluses were dispersed (or are to be banked) and/or how and through what means credit deficits were met. The report must include a calculation of credit balances to show that the credit summation for each class of engines or equipment is equal to or greater than zero.

- (2) The calculation of eligible ~~sales~~ production volume as defined in ~~subsection (e)(1) of this section~~ 2752(a)(21) for end-of-year and final reports must be based on the location of the point of first retail sale (for example, retail customer or dealer) also called the final product purchase location. ~~Upon advance written request, the Executive Officer will may consider~~ A Holder may use other methods to track engines for credit calculation purposes, such as shipments to distributors of products intended for sale in California.
- (3) (A) Unless otherwise approved or directed by the Executive Officer, ~~End-of-year~~ reports must be submitted within 90 days of the end of the model year to:
 Chief, ~~Mobile Source Operations~~ Emissions Compliance,
Automotive Regulations and Science Division, Air Resources Board, 9528 Telstar, El Monte, CA 91731.
- (B) Unless otherwise approved or directed by the Executive Officer, final reports must be submitted within 270 days of the end of the model year to:
 Chief, ~~Mobile Source Operations~~ Emissions Compliance,
Automotive Regulations and Science Division, Air Resources Board, 9528 Telstar, El Monte, CA 91731.
- (4) Failure by a ~~manufacturer~~ Holder to submit any end-of-year or final reports in the specified time for any engines or equipment subject to regulation under this section is a violation of this section for each engine or equipment in the evaporative family covered by the report.
- (5) A ~~manufacturer~~ Holder generating credits for banking only who fails to submit end-of-year reports in the applicable specified time period (90 days after the end of the model year) may not use the credits until such reports are received and reviewed by ARB. Use of projected credits pending ARB review is not permitted in these circumstances.
- (6) Errors discovered by ARB or the ~~manufacturer~~ Holder in the end-of-year report, including errors in credit calculation, may be corrected in the final report.
- (7) If ARB or the ~~manufacturer~~ Holder determines that a reporting error occurred on an end-of-year or final report previously submitted to ARB under this section, the ~~manufacturer's~~ Holder's credits and credit calculations must be recalculated. Erroneous positive credits will be void except as provided in subsection (h) of this section. Erroneous negative credit balances may be adjusted by ARB.

- (8) If within 270 days of the end of the model year, ARB review determines a reporting error in the ~~manufacturer's~~Holder's favor (that is, resulting in an increased credit balance) or if the manufacturer discovers such an error within 270 days of the end of the model year, ARB must restore the credits for use by the ~~manufacturer~~Holder.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2754.2. Validation Study.

- (a) To confirm that the performance-based evaporative certification option in section 2754(a) and the design-based evaporative certification option in section 2754(b) are achieving ARB's overall emission reduction goals, ARB will conduct an inventory validation study utilizing diurnal test data from such equipment.
- (b) This validation study will be conducted at two time periods: (a) in 2010 for the years 2008, 2009 and 2010 and (b) in 2015 for the years 2013, 2014 and 2015.
- (c) For each year in the study, the Executive Officer will select engine and / or equipment evaporative families and request, from the certificate Holder, one production unit from each identified family from production inventory according to a method specified by the Executive Officer. Diurnal testing of each selected unit (including the complete evaporative emission control system) will be conducted pursuant to TP-902, including pre-conditioning. Unless otherwise directed by the Executive Officer, three data points will be generated and submitted to the Executive Officer for each engine and / or equipment tested.
- (d) The number of data points and equipment to be tested for this validation study is as follows:

Year	Number of Data Points (# of Equipment Tested) for Units Certified per the Performance-Based Standards Under Section 2754(a)	Number of Data Points (# of Equipment Tested) for Units Certified per the Design-Based Standards Under Section 2754(b)
2008	9 (3)	45 (15)
2009	3 (1)	15 (5)
2010	3 (1)	15 (5)
2013	9 (3)	45 (15)
2014	3 (1)	15 (5)
2015	3 (1)	15 (5)

- (e) The costs for testing engines or equipment certified under the design-based element of the validation study are the responsibility of the certificate Holder.

The costs for testing engines or equipment certified under the performance-based element of the validation study are the responsibility of ARB. For each of the years 2010 and 2015, the Executive Officer will also review the annual performance-based and design-based certification submissions for that year and two prior years (i.e., 2010, 2009, 2008 for the 2010 validation and 2015, 2014, 2013 for the 2015 validation) to supplement this validation study.

- (f) The Executive Officer will evaluate the data collected and, based on reasonable criteria, make a determination whether the performance-based option in section 2754(a) and the design-based option in section 2754(b) are achieving ARB's overall emission reduction goals. In making this determination, the Executive Officer will consider, among other things, whether a particular product tested is in full compliance with the underlying standards and whether the product configurations are non-representative (i.e., large tanks).

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code. Reference: Section 43013, Health and Safety Code.

§2755. Permeation Emissions Performance Standards.

On or after the model year set out herein, fuel tanks and fuel lines used on equipment subject to this section must not exceed the following permeation rates:

Permeation Rate Emission Standards
(grams per meter² per day)

Effective Date Model Year	Applicability	Requirement ¹ Tank Permeation
2007	<u>Equipment That Use Gasoline Powered Small Off-Road Engines With Displacements ≤ 80 cc</u>	Fuel Tank Permeation Emissions shall not exceed 2.0 grams per square meter of internal surface area per day as determined by TP-901.
<u>2020</u>	<u>Small off-road engines with displacements ≤ 80 cc</u>	<u>Fuel lines shall meet the requirements of section 2754(b)(2), except that the permeation emission standard for fuel lines used on chainsaws is $225 \text{ g}\cdot\text{m}^{-2}\cdot\text{day}^{-1}$.</u>

¹ Permeation rate must be measured to two significant digits.

- (a) Data documenting the permeation rate of fuel tanks and fuel lines must be included in a certification application, ~~except for models of equipment which use~~

“equivalent fuel tanks.” Such data are not required for engines or equipment meeting the requirements of section 2766.

- (b) The test procedure for determining compliance with the fuel tank permeation emission standards for permeation rates from small off-road engine fuel tanks is set forth in “Test Procedure for Determining Permeation Emissions from Small Off-Road Engine Equipment Fuel Tanks, TP-901,” adopted July 26, 2004, which is incorporated by reference herein and specified in section 2758. The test procedure used to determine compliance with the fuel line permeation emission standard is SAE J1737 (Stabilized May 2013), SAE J30, SAE J1527, or, only for fuel lines with inner diameter 4.75 mm or less, SAE J2996.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2756. Fuel Cap Performance Standard.

For On or after the model year set out herein, no person shall sell, supply, offer for sale or manufacture for sale fuel caps for fuel tanks for small off-road engines or equipment that use small off-road engines with displacements $>_{80}$ cc subject to this Article that do not meet the following performance standards unless exempted in an Executive Order issued pursuant to section 2767 of the Article:

Fuel Cap Performance Standards

- (a) Fuel cap must be permanently tethered to the tank, equipment, or engine; and
- (b) Fuel cap must be designed to provide physical and/or audible feedback to the user that a fuel tank vapor seal is established.
- (c) Fuel cap must meet the durability requirements in TP-902.

The following table defines equipment subject to the fuel cap performance standards of this section:

EquipmentEngines Subject to the Fuel Cap Performance Standards

Effective Date Model Year	Applicability
2007	Fuel Caps for <u>all</u> ALL SORE Equipment With Small Off-Road Engines $>_{80}$ cc to < 225 cc <u>(must meet subsections (a) and (b) only)</u>
2008	Fuel Caps for <u>all</u> ALL SORE Equipment With Small Off-Road Engines ≥ 225 cc <u>(must meet subsections (a) and (b) only)</u>

<u>2020</u>	<u>Fuel caps for all small off-road engines > 80 cc (must meet subsection (c))</u>
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NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2757. Optional PerformanceEvaporative Emission Standards.

The Air Resources Board recognizes that evaporative emissions can be further reduced by incorporating advanced fuel system designs that reduce or eliminate carburetor and permeation emissions. These optional performance standards are emission targets that are more stringent than the performance standards set out in section 2754; and 2755. These optional performance standards will be part of a statewide clean air-labeling program. Upon implementation, a manufacturer certifying to an optional performance standard would be allowed to affix a “Blue Sky Label” on their equipment.

Optional Permeation RateEmission Standard

Effective Date Model Year	Applicability	Requirement ¹ Tank Permeation
2007	Equipment That Use Gasoline Powered Small Off-Road Engines With Displacements < 80 cc	Fuel Tank Permeation Emission s-rate Shall Not Exceed 1.0 Grams Per Square Meter Per Day As Determined By TP-901.
<u>2018</u>	<u>Small Off-Road Engines With Displacement ≤ 80 cc</u>	<u>Fuel tank permeation rate shall not exceed 0.40 grams TPROG per square meter of internal surface area per day as determined by TP-901.</u>

¹ Permeation rate must be measured to two significant digits.

Optional EvaporativeDiurnal Emission Standards
(Grams per 24-hour diurnal test)

Effective Date Model Year	Applicability	Requirement ¹ Total Hydrocarbons
2007	All Equipment That Use Gasoline Powered Small Off-Road Engines With Displacements > 80 cc To < 225 cc	Diurnal Emissions Shall Not Exceed 0.5 Grams Total Hydrocarbons Per Day As Determined By TP-902.

2018	<u>Small off-road engines with displacement > 80 to < 225 cc</u>	<u>Diurnal emissions shall not exceed 0.20 g TCorganic material hydrocarbon equivalent per day as determined by TP-902.</u>
2008 and Later	All E equipment T that U use G gasoline P powered S small O off-Road E engines W with D displacements > 225 cc	Diurnal E missions S shall N not E exceed 1.0 G grams T total H hydrocarbons P per D day A as D determined B by TP-902.
2018	<u>Small Off-Road engines with displacement ≥ 225 cc</u>	<u>Diurnal emissions shall not exceed 0.40 g TCorganic material hydrocarbon equivalent per day as determined by TP-902.</u>

¹ Diurnal emissions must be measured to two significant digits.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2758. Test Procedures.

- (a) Testing to determine compliance with section 2754 of this Article shall be performed using the following test procedures:
- (1) for model years 2007 through 2017, TP-902, adopted July 26, 2004, which is incorporated by reference herein;
 - (2) for model years 2018 and 2019,
 - (A) for Holders following CP-902, adopted July 26, 2004, TP-902, adopted July 26, 2004, or
 - (B) for Holders following CP-902, adopted July 26, 2004, and amended MMMM DD, YYYY, TP-902, adopted July 26, 2004, and amended MMMM DD, YYYY, which is incorporated by reference herein;
 - (3) for model year 2020 and subsequent model years, TP-902, adopted July 26, 2004, and amended MMMM DD, YYYY.
- (b) Testing to determine compliance with section 2755 of this Article shall be performed using the following test procedures:
- (1) for model years 2007 through 2017, TP-901, adopted July 26, 2004, which is incorporated by reference herein;
 - (2) for model years 2018 and 2019,

(A) for Holders following CP-901, adopted July 26, 2004, TP-901, adopted July 26, 2004, or

(B) for Holders following CP-901, adopted July 26, 2004, and amended MMMM DD, YYYY:

1. TP-901, adopted July 26, 2004, and amended MMMM DD, YYYY, and

2. One of the following:

i. SAE J1737,

ii. SAE J30, or

iii. SAE J1527, or

iv. only for fuel lines with inner diameter 4.75 mm or less, SAE J2996:

(3) for model year 2020 and subsequent model years,

(A) TP-901, adopted July 26, 2004, and amended MMMM DD, YYYY, and

(B) One of the following:

1. SAE J1737,

2. SAE J30, or

3. SAE J1527, or

4. only for fuel lines with inner diameter 4.75 mm or less, SAE J2996.

(c) Testing to determine compliance with section 2757 of this Article shall be performed using the following test procedures:

(1) for model years 2007 through 2017,

(A) TP-901, adopted July 26, 2004, to determine permeation emissions, and

(B) TP-902, adopted July 26, 2004, to determine diurnal emissions;

- (2) For model years 2018 and 2019,
 - (A) for Holders following CP-901, adopted July 26, 2004, TP-901, adopted July 26, 2004, to determine permeation emissions,
 - (B) for Holders following CP-902, adopted July 26, 2004, TP-902, adopted July 26, 2004, to determine diurnal emissions,
 - (C) for Holders following CP-901, adopted July 26, 2004, and amended MMMM DD, YYYY, TP-901, adopted July 26, 2004, and amended MMMM DD, YYYY, to determine permeation emissions, and
 - (D) for Holders following CP-902, adopted July 26, 2004, and amended MMMM DD, YYYY, TP-902, adopted July 26, 2004, and amended MMMM DD, YYYY, to determine diurnal emissions;
- (3) For model year 2020 and subsequent model years,
 - (A) TP-901, adopted July 26, 2004, and amended MMMM DD, YYYY, to determine permeation emissions, and
 - (B) TP-902, adopted July 26, 2004, and amended MMMM DD, YYYY, to determine diurnal emissions.

Test procedures referred to in this Article may be obtained from the California Air Resources Board at P.O. Box 2815, Sacramento, California 95812 or over the Internet at <http://www.arb.ca.gov>.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2759. Equipment and Component Labeling.

- (a) Purpose. The Air Resources Board recognizes that certain emissions-critical and/or emissions-related parts must be properly labeled in order to identify equipment that meets applicable evaporative emission standards. These specifications require ~~equipment and/or engine manufacturers~~Holders to affix a certification label (or labels) on each production equipment unit (or engine, as applicable).
- (b) Applicability. These specifications apply to:
 - (1) Engines, or equipment, fuel lines, fuel tanks, and carbon canisters that have been certified to the applicable evaporative emission standards in this Article.

- (2) Equipment manufacturers who use an engine certified under this Article if their equipment obscures the emissions control label of such certified engine.
- (c) Complete Evaporative Emission Control System Certification Label Content and Location.
- (1) A ~~plastic or metal~~certification label must be welded, riveted or otherwise permanently attached by the ~~equipment or engine manufacturer~~Holder to an area on the engine or equipment unit in such a way that it will be readily visible.
- (2) In selecting an acceptable location, the possibility of accidental damage must be considered (e.g. possibility of tools or sharp instruments coming in contact with the label). Each certification label must be affixed in such a manner that it cannot be removed without destroying or defacing the label, and must not be affixed to any engine (or equipment, as applicable) component that is easily detached from the engine or equipment as applicable.
- (3) The ~~engine or equipment~~certification label information must be written in the English language and use block letters and numerals (i.e., sans serif, upper-case characters) that must be of a color that contrasts with the background of the label.
- (4) The ~~engine or equipment~~certification label must contain the following information:
- (A) The label heading must read: "IMPORTANT EMISSIONS INFORMATION." When combined with an exhaust label, "EMISSIONS" relates to both exhaust and evaporative emissions.
- (B) The full corporate name or trademark of the ~~engine or equipment manufacturer~~Holder.
1. A ~~manufacturer~~Holder may request approval to delete its name and trademark, and substitute the name and trademark of another manufacturer, original equipment manufacturer, or third-party distributor.
 2. Such an approval does not relieve the ~~manufacturer~~Holder of complying with the requirements imposed by this Article.
- (C) Identification of the evaporative emission control system.
Abbreviations per SAE J1930 ~~dated May 14, 2002~~revised October

2008, or ~~manufacturers~~ Holder's evaporative code as defined in the owner's manual are allowed if they are submitted as part of the certification application.

- (D) The date ~~(month and year)~~ and location (state or country) of engine manufacture ~~(month and year)~~ for evaporative emission control systems certified by the engine manufacturer or the date of equipment manufacture ~~(month and year)~~ for evaporative emission control systems certified by the equipment manufacturer.
- (E) An unconditional statement of compliance with the appropriate model year(s) (for 2006 and later) California regulations; for example, "THIS ENGINE MEETS 2006 CALIFORNIA EVP EMISSION REGULATIONS FOR SMALL OFF-ROAD ENGINES".
- (F) Evaporative emissions family. Attachment 1 of the ~~Certification Procedures, CP-902, adopted July 26, 2004, and Attachment 1 of CP-902, adopted July 26, 2004, and amended MMMM DD, YYYY,~~ contains the classification criteria for determining an evaporative family for engines greater than 80 cc. ~~For equipment less than or equal to 80 cc, the engine exhaust family is the evaporative family.~~

(d) Evaporative Emission Control Component Certification Label Content and Location.

(1) Fuel lines, fuel tanks, and carbon canisters certified to the evaporative emission standards in this Article shall be clearly labeled or marked by a permanent identification showing the Holder's name, the Executive Order number, and model or part number in such a way that it will be readily visible when installed on an engine or equipment unit.

(2) The label information shall be written in the English language and use block letters and numerals (i.e., sans serif, upper-case characters) that are raised or contrast with the background of the label or component.

(3) The Holder's three-character manufacturer code assigned by U.S. EPA may be used in place of the Holder's name if the manufacturer code is declared in the certification application. If only one model or part number is certified under the applicable Executive Order, the model or part number may be omitted from the label information.

(de) Conformance with Other Requirements. A certification label may state that the equipment conforms to any applicable Federal, Canadian, or European evaporative emission standards for new equipment; or any other information that

the ~~manufacturer~~ Holder deems necessary for, or useful to, the proper operation and satisfactory maintenance of the ~~engine~~evaporative emission control system.

- (ef) Label Visibility. As used in these specifications, readily visible to the average person means that a label is readable from a distance of 46 centimeters (18 inches) without any obstructions from equipment or engine parts (including all original equipment manufacturer or engine manufacturer (as applicable) available optional equipment) except for flexible parts (e.g., vacuum hoses, ignition wires) that can be moved out of the way without disconnection. Alternatively, information required by these specifications to be printed on the equipment and/or engine (as applicable) must be no smaller than 2 millimeters in height provided that no equipment or engine parts (including all original equipment manufacturer available optional equipment), except for flexible parts, obstruct the label(s). The label may be under a hinged door or other readily opened or removed cover, subject to the limitations of subsection (c)(2) of this section. It may not be hidden by any cover attached with screws or any similar designs.
- (fg) Label Durability. The certification labels and any adhesives used must be designed to withstand, for the equipment's useful life, typical equipment environmental conditions in the area where the labels required by this section are attached. Typical equipment environmental conditions include, but are not limited to, exposure to engine fuels, lubricants and coolants (e.g., gasoline, motor oil, water, and ethylene glycol). The ~~engine or equipment manufacturer~~applicant must submit, with its certification application, a statement attesting that its certification labels comply with these requirements.
- (gh) Sample Label Submission. Samples of all actual production certification labels used within an evaporative family must be submitted to the Executive Officer within thirty days after the start of production. Sample certification labels are not required for carry over certification unless labels are revised. ~~Engine manufacturers must provide samples of their own applicable production labels, and samples of applicable production labels of the equipment manufacturer that are accessible to the engine manufacturers due to any direct market arrangement between such manufacturers.~~
- (hi) The Executive Officer may approve alternate certification label locations or may, upon request, waive or modify the label content requirements provided that the intent of these specifications is met. Such approval may be conditioned upon providing such information in the owner's manual as the Executive Officer deems appropriate.
- (ij) Labeling Enforcement.

Use of certification labels that are different from those approved will be grounds for revocation or suspension of the Executive Order of Certification.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2760. Defects Warranty Requirements for Small Off-Road Engines.

- (a) Applicability. This section applies to evaporative emission control systems on small off-road engines or equipment that use small off-road engines subject to the ~~performance~~emission standards in this Article. The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser.
- (b) General Evaporative Emissions Warranty Coverage. The engine or equipment must be warranted to the ultimate purchaser and any subsequent owner that the evaporative emission control system when installed was:
 - (1) Designed, built, and equipped so as to conform with all applicable regulations; and
 - (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.
- (c) The warranty on evaporative emissions-related parts will be interpreted as follows:
 - (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions required by subsection (e) must be warranted for the warranty period defined in subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by the ~~manufacturer issuing the warranty~~Holder or the Holder's contracted warranty provider according to subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for a time not less than the remaining warranty period.
 - (2) Any warranted part that is scheduled only for regular inspection in the written instructions required by subsection (e) must be warranted for the warranty period defined in subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" shall advise owners of the warranty coverage for evaporative emissions related parts. Replacement within the warranty period is covered by the warranty and will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for a time not less than the remaining warranty period.
 - (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions required by subsection (e) must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement,

the part must be repaired or replaced by the manufacturer according to subsection (4) below. Any such part repaired or replaced under warranty must be warranted for a time not less than the remainder of the period prior to the first scheduled replacement point for the part.

- (4) Repair or replacement of any warranted part under the warranty provisions of this article must be performed at no charge to the owner at a warranty station.
 - (5) Notwithstanding the provisions of subsection (4) above, warranty services or repairs must be provided at distribution centers that are franchised to service the subject engines or equipment.
 - (6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
 - (7) Throughout the evaporative emission control system's warranty period set out in subsection (b)(2), the ~~manufacturer issuing the warranty~~Holder or the Holder's contracted warranty provider must maintain a supply of warranted parts sufficient to meet the expected demand for such parts and must obtain additional parts if that supply is exhausted.
 - (8) Manufacturer approved replacement parts that do not increase the exhaust or evaporative emissions of the engine or evaporative emission control system must be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the ~~manufacturer issuing the warranty~~ Holder or the Holder's contracted warranty provider.
 - (9) The use of ~~any~~ add-on or modified parts ~~will~~may be grounds for disallowing a warranty claim made in accordance with this ~~a~~Article. The ~~manufacturer issuing the warranty~~Holder or the Holder's contracted warranty provider will not be liable under this Article to warrant failures of warranted parts caused by the use of an add-on or modified part.
 - (10) The ~~manufacturer issuing the warranty~~Holder shall provide any documents that describe that ~~manufacturer's~~Holder warranty procedures or policies within five working days of request by the Executive Officer.
- (d) A ~~copy~~list of the ~~following~~all evaporative emission warranty parts ~~list~~ must be included with each new engine or equipment subject to this Article, ~~using those portions of the list applicable to the engine or equipment.~~ The evaporative emission warranty parts list shall include all parts whose failure would increase evaporative emissions, and may contain, but is not limited to, the following parts:

- (1) Fuel Tank*
- (2) Fuel Cap
- (3) Fuel Lines (for liquid fuel and fuel vapors)
- (4) Fuel Line Fittings
- (5) Clamps**
- (6) Pressure Relief Valves**
- (7) Control Valves**
- (8) Control Solenoids**
- (9) Electronic Controls**
- (10) Vacuum Control Diaphragms**
- (11) Control Cables**
- (12) Control Linkages**
- (13) Purge Valves*
- (14) ~~Vapor Hoses~~ Gaskets*
- (15) Liquid/Vapor Separator
- (16) Carbon Canister
- (17) Canister Mounting Brackets
- (18) Carburetor Purge Port Connector

~~*Note: The parts list for equipment less than or equal to 80 cc only includes the fuel tank.~~

**Note: As they relate to the evaporative emission control system.

- (e) Written instructions for the maintenance and use of the evaporative emissions control system by the owner shall be furnished with each new engine or equipment subject to this Article. The instructions must be consistent with this aArticle and applicable regulations contained herein.

- (f) The documents required by subsections (d) and (e) must be submitted with the application for evaporative emission control system certification for approval by the Executive Officer. Approval by the Executive Officer of the documents required by subsections (d) and (e) is a condition of certification. The Executive Officer will approve or disapprove the documents required by subsections (d) and (e) within 90 days of the date such documents are received.
- (g) The application for evaporative emission control system certification must also include a statement regarding the maintenance of the evaporative emission control system. The statement must include, but not be limited to, information on evaporative emission control system maintenance, and a maintenance schedule.
- (h) Any other warranty statements applicable to engines or equipment units must not imply a limitation on the evaporative emissions warranty period or its applicability to subsequent owners after the ultimate purchaser. If the warranty period for any warranty other than the emissions warranty is less than two years, the statement of such warranty must specifically state that it does not limit the evaporative emissions warranty period of two years from purchase. If any warranty other than the emissions warranty does not extend to subsequent owners after the ultimate purchaser, the statement of such warranty must specifically state that it does not affect the applicability of the evaporative emissions warranty to subsequent owners after the ultimate purchaser.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2761. Emission-Related Defect and Sales Production Volume Reporting Requirements.

- (a) Applicability. This section applies to evaporative emission control systems on 2007 model year and later small off-road engines and equipment that use small off-road engines. The requirement to report evaporative emission-related defects affecting a given class or category of engines or equipment evaporative family will remain applicable for five years from the end of the calendar year in which such engines or equipment were the affected evaporative family was manufactured.
- (b) A ~~manufacturer~~ Holder must file a defect information report whenever, on the basis of data obtained subsequent to the effective date of these regulations:
 - (1) The ~~manufacturer~~ Holder determines, in accordance with procedures established by the ~~manufacturer~~ Holder to identify either safety-related or performance defects, that a specific evaporative emission-related defect exists; and
 - (2) A specific evaporative emission-related defect exists in 25 or more ~~tanks, engines or equipment~~ evaporative emission control systems of a given

evaporative family manufactured in under the same Executive Order or in the same model year.

- (c) No report must be filed under this section for any evaporative emission-related defect corrected prior to the sale of the affected engines or equipment to ultimate purchasers.
- (d) The ~~manufacturer~~ Holder must submit defect information reports to Chief, ~~Mobile Source Operations~~ Emissions Compliance, Automotive Regulations and Science Division, Air Resources Board, 9528 Telstar, El Monte, CA 91731, not more than 15 working days after an emission-related defect is found to affect 25 or more ~~engines or equipment~~ evaporative emission control systems certified under the same Executive Order or in the same model year, unless otherwise directed by the Executive Officer. Information required by subsection ~~(d)~~ of this section that is either not available within 15 working days or is significantly revised must be submitted to the Executive Officer as it becomes available.
- (e) Each defect report must contain the following information:
 - (1) The ~~manufacturer's~~ Holder's corporate name.
 - (2) A description of the defect.
 - (3) A description of each ~~class or category of engines or equipment~~ evaporative family potentially affected by the defect including make, model, model year, calendar year produced, and any other information required to identify the engines affected.
 - (4) For each ~~class or category of engines or equipment~~ evaporative family described in response to subsection (d) of this section, the following must also be provided:
 - (A) The number of ~~engines or equipment~~ evaporative emission control systems known or estimated to have the defect and an explanation of the means by which this number was determined.
 - (B) The address of the plant(s) at which the potentially defective ~~engines or equipment~~ evaporative emission control systems were produced.
 - (5) An evaluation of the evaporative emissions impact of the defect and a description of any operational problems that a defective ~~engine or equipment~~ evaporative emission control system might exhibit.
 - (6) Available evaporative emission data that relate to the defect.

(7) An indication of any anticipated ~~manufacturer~~ Holder follow-up.

(f) End-of-Year and Final ~~Sales~~ Sales Production Volume Reports.

(1) A Holder shall submit end-of-year and final ~~sales~~ sales production volume reports for all of the Holder's evaporative families. End-of-year and final ~~sales~~ sales production volume reports must indicate the ~~actual~~ actual sales production volume for each evaporative family. Production volume must be provided for each equipment type by engine family and fuel tank volume within each evaporative family.

~~(2) Actual sales are sales calculated at the end of a model year on that model year's production, rather than estimates of production. The calculation of actual sales for end-of-year and final sales reports must be based on the location of the point of first retail sale (for example, retail customer or dealer) also called the final product purchase location. Upon Executive Officer approval, a Holder may calculate its eligible sales through market analysis. An educated and consistent estimate with the best available documentation will be acceptable as the final report of sales in California.~~

~~(32)~~ (A) Unless otherwise approved or specified by the Executive Officer, ~~E~~ end-of-year ~~sales~~ sales production volume reports must be submitted within 90 days of the end of the model year to: Chief, Emissions Compliance, Automotive Regulations and Science Division, Air Resources Board, 9528 Telstar, El Monte, CA 91731.

(B) Unless otherwise approved or specified by the Executive Officer, final ~~sales~~ sales production volume reports must be submitted within 270 days of the end of the model year to: Chief, Emissions Compliance, Automotive Regulations and Science Division, Air Resources Board, 9528 Telstar, El Monte, CA 91731.

(43) Failure by a Holder to submit any end-of-year or final ~~sales~~ sales production volume reports in the specified time for any evaporative family subject to this Article is a violation of this section for each engine or equipment in the evaporative family covered by the report.

(54) Errors discovered by ARB or the Holder in the end-of-year ~~sales~~ sales production volume report, may be corrected in the final ~~sales~~ sales production volume report.

(65) Reports submitted to meet the requirements of section 2754.1 of this Article may be used to meet the requirements of this section.

(76) A report submitted to ARB to meet the requirements of section 1054.250 of the "California Exhaust Emission Standards and Test Procedures for

New 2013 and Later Small Off-Road Engines; Engine-Testing Procedures (Part 1054),” adopted October 25, 2012, for an engine family may be used to meet the requirements of this section for an evaporative family which is equivalent to the engine family.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2762. Voluntary Emission Recall Program.

- (a) When any ~~manufacturer~~ Holder initiates a voluntary emissions recall program involving 25 or more ~~tanks, engines, or equipment~~ evaporative emission control systems, the ~~manufacturer~~ Holder must submit a report describing the ~~manufacturer's~~ Holder's voluntary emissions recall plan as prescribed by this section within 15 working days of the date owner notification began. The report must contain the following:
- (1) A description of each ~~class or category of engines or equipment~~ evaporative family recalled including the number of ~~tanks, engines or equipment~~ evaporative emission control systems to be recalled, the model year, the make, the model, and such other information as may be required to identify the ~~engines~~ units recalled;
 - (2) A description of the specific modifications, alterations, repairs, corrections, adjustments, or other changes to be made to correct the ~~tanks, engines, or equipment~~ evaporative emission control systems affected by the emission-related defect;
 - (3) A description of the method by which the ~~manufacturer~~ Holder will notify ~~engine or equipment~~ evaporative emission control system owners and, if applicable, the method by which the ~~manufacturer~~ Holder will determine the names and addresses of ~~engine or equipment~~ evaporative emission control system owners;
 - (4) A description of the proper maintenance or use, if any, upon which the ~~manufacturer~~ Holder conditions eligibility for repair under the recall plan, an explanation of the ~~manufacturer's~~ Holder's reasons for imposing any such conditions, and a description of the proof to be required of an ~~engine or equipment~~ evaporative emission control system owner to demonstrate compliance with any such conditions;
 - (5) A description of the procedure to be followed by ~~engine or equipment~~ evaporative emission control system owners to obtain correction of the nonconformity. This may include designation of the date on or after which the owner can have the nonconformity remedied, the

time reasonably necessary to perform the labor to remedy the defect, and the designation of facilities at which the defect can be remedied;

- (6) A description of the class of persons other than dealers and authorized warranty agents of the ~~manufacturer~~Holder who will remedy the defect;
 - (7) When applicable, three copies of any letters of notification to be sent engine owners;
 - (8) A description of the system by which the ~~manufacturer~~ Holder will assure that an adequate supply of parts is available to perform the repair under the plan, and that the supply remains both adequate and responsive to owner demand;
 - (9) Three copies of all necessary instructions to be sent to those persons who are to perform the repair under the recall plan;
 - (10) A description of the impact of the proposed changes on fuel consumption, performance, evaporative emissions, and safety of each ~~class or category of engines or equipment~~evaporative family to be recalled;
 - (11) A sample of any label to be applied to ~~engines or equipment~~evaporative emission control systems that participated in the voluntary recall campaign.
- (b) The ~~manufacturer~~Holder must submit at least one report on the progress of the recall campaign. Such report must be submitted no later than 18 months from the date notification was begun and include the following information:
- (1) The methods used to notify both ~~engine or equipment~~evaporative emission control system owners, dealers and other individuals involved in the recall campaign;
 - (2) The number of ~~engines or equipment~~evaporative emission control systems to be affected by the emission-related defect and an explanation of the means by which this number was determined;
 - (3) The number of ~~engines or equipment~~evaporative emission control systems actually receiving repair under the plan; and
 - (4) The number of ~~engines or equipment~~evaporative emission control systems determined to be ineligible for remedial action due to a failure to properly maintain or use such ~~engines~~evaporative emission control systems.

- (c) Unless otherwise directed by the Executive Officer, the Holder shall send the defect report, voluntary recall plan, and the voluntary recall progress report to: Chief, Mobile Source Operations Emissions Compliance, Automotive Regulations and Science Division, Air Resources Board, 9528 Telstar Avenue, El Monte, CA, 91731.
- (d) The Holder shall retain the information gathered by the manufacturer Holder to compile the reports for not less than five years from the date of the end of the model year in which the defect occurred. The ~~manufacturer~~ Holder must make this information available to duly authorized officials of the ARB upon request.
- (e) The filing of any report under the provisions of this section does not affect a ~~manufacturer's~~ Holder's responsibility to file reports or applications, obtain approval, or give notice under any provision of law.
- (f) The act of filing an Emission Defect Information Report is inconclusive as to the existence of a defect subject to the warranty provided by section 2764 of this Article.
- (g) A ~~manufacturer~~ Holder may include on each page of its Emission Defect Information Report a disclaimer stating that the filing of a Defect Information Report pursuant to these regulations is not conclusive as to the applicability of the warranty provided by section 2764 of this Article.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2763. Ordered Recalls.

- (a) (1) If the Executive Officer determines that a substantial number of any ~~class or category of engines or equipment~~ evaporative emission control systems, or components used on such ~~engines or equipment~~ evaporative emission control systems in an evaporative family certified pursuant to section 27534(b), although properly maintained and used, do not meet the ~~performance or design~~ evaporative emission standards prescribed under this Article, when in actual use throughout their useful life, the Executive Officer shall immediately notify the responsible ~~manufacturer~~ Holder of such nonconformity and require the ~~manufacturer~~ Holder to submit a plan for remedying the nonconformity.

The ~~manufacturer's~~ Holder's plan shall provide that the nonconformity of any such ~~engines or equipment~~ evaporative emission control systems that are properly used and maintained will be remedied at the expense of the ~~manufacturer~~ Holder.

If the ~~manufacturer~~Holder disagrees with such determination of nonconformity, the ~~manufacturer~~Holder may appeal such determination pursuant to section 2771.

- (2) Any notification required to be given by the ~~manufacturer~~ Holder under subsection (a)(1) of this section with respect to any ~~class or category of engines or equipment~~evaporative family shall be given to dealers, ultimate purchasers, and subsequent purchasers (if known) in such manner and containing such information as required in section 2761 of this Article.
- (3) (A) Prior to an ARB ordered recall, the ~~manufacturer~~Holder may perform a voluntary emissions recall pursuant to section 2762 of this Article. Such ~~manufacturer~~Holder is subject to the reporting and record keeping requirements of section 2762 subsections (c) and (d) of this Article.

(B) Once ARB determines that a substantial number of ~~engines or equipment~~evaporative emission control systems fail to conform to the requirements of this Article, the ~~manufacturer~~Holder will not have the option of a voluntary recall.
- (b) The ~~manufacturer~~Holder bears all cost obligation a dealer incurs as a result of a requirement imposed by subsection (a) of this section. The transfer of any such cost obligation from a ~~manufacturer~~Holder to a dealer through franchise or other agreement is prohibited.
- (c) Any inspection of an ~~engine or equipment~~evaporative emission control system for purposes of subsection (a)(1) of this section, after its sale to the ultimate purchaser, is to be made only if the owner of such ~~engine or equipment~~evaporative emission control system voluntarily permits such inspection to be made, except as may be provided by any state or local inspection program.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2764. Evaporative Emission Control System Warranty Statement.

- (a) Any application for an evaporative emission control system certification must include a copy of the following warranty statement: in subsection (b) of this section. Text in parentheses shall be replaced with the appropriate information. A combined exhaust and evaporative warranty statement is acceptable. For combined warranty statements, “evaporative emission” may be replaced with “emissions” where “emissions” is understood to mean both exhaust and evaporative emissions. If a Holder contracts with a third party to provide

warranty service, the Holder's contracted warranty service provider's name may be specified in lieu of the Holder's name in the warranty statement.

(b)

CALIFORNIA EVAPORATIVE EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board (and ~~manufacturer's~~Holder's name, optional) ~~is~~are pleased to explain the evaporative emission control system's warranty on your (year(s)) (equipment type). In California, new equipment that use small off-engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. (~~Manufacturer's~~Holder's name) must warrant the evaporative emission control system on your (equipment type) for the period listed below provided there has been no abuse, neglect or improper maintenance of your equipment leading to the failure of the evaporative emission control system.

Your evaporative emission control system may include parts such as: carburetors, fuel tanks, fuel lines (for liquid fuel and fuel vapors), fuel caps, valves, canisters, filters, ~~vapor hoses,~~ clamps, connectors, and other associated components. **~~For engines less than or equal to 80 cc, only the fuel tank is subject to the evaporative emission control warranty requirements of this section.~~**

~~A combined exhaust and evaporative warranty statement is acceptable. For combined warranty statements, "evaporative emission" can be replaced with "emissions" where "emissions" is understood to mean both exhaust and evaporative emissions.~~

MANUFACTURER'S WARRANTY COVERAGE:

This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by (~~manufacturer's~~ Holder's name).

OWNER'S WARRANTY RESPONSIBILITIES:

- As the (equipment type) owner, you are responsible for performance of the required maintenance listed in your owner's manual. (~~Manufacturer's~~ Holder's name) recommends that you retain all receipts covering maintenance on your (equipment type), but (~~manufacturer's~~ Holder's name) cannot deny warranty solely for the lack of receipts.
- As the (equipment type) owner, you should ~~however~~ be aware that the (~~manufacturer's~~ Holder's name) may deny you warranty coverage if your (equipment type) or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

- You are responsible for presenting your (equipment type) to a (~~manufacturer's~~ Holder's name) distribution center or service center as soon as the problem exists. The warranty repairs ~~should~~ shall be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact (Insert chosen ~~manufacturer's~~ Holder's contact) at (1-XXX-XXX-XXXX).

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2765. New Equipment Compliance Testing.

(a) Compliance Test Procedures.

- (1) The Executive Officer may order an ~~engine or equipment~~ manufacturer Holder to make available for compliance testing and/or inspection ~~five~~ one or more fuel lines, carbon canisters, or fuel tanks, or one or more engines, or equipment units with complete evaporative emission control systems. Unless otherwise directed by the Executive Officer, the fuel lines, carbon canisters, fuel tanks, engines, or equipment units shall be delivered to the Haagen-Smit Laboratory, 9528 Telstar Avenue, El Monte, California. Fuel lines, carbon canisters, fuel tanks, engines or equipment units must be selected at random from sources specified by the Executive Officer according to a method approved by the Executive Officer, that, insofar as practical, must exclude engines or equipment that would result in an unreasonable disruption of the ~~manufacturer's~~Holder's distribution system. Such an order may include a requirement to demonstrate that the measured rate or volume of purge from a representative sample of production canisters and engines certified under section 2754 ~~(b)~~ meets any design specification required by the Executive Officer in the applicable Executive Order of Certification or included by the ~~manufacturer~~ Holder in the application for such an Order.
- (2) The Executive Officer may obtain ~~five~~ five or more fuel lines, carbon canisters, or fuel tanks, or one or more engines, or equipment units with complete evaporative emission control systems manufactured for sale or lease for use or operation in California, sold or leased or offered for sale or lease for use or operation in California, or delivered or imported into California for introduction into commerce in California for compliance testing or inspection.
- (23) The method for selection and testing of the fuel lines, carbon canisters, fuel tanks, engines or equipment and the evaluation of test data must be made in accordance with the procedures set forth herein.

- (34) Air Resources Board personnel shall have access to the fuel line, carbon canister, fuel tank, engine, or equipment assembly plants, or distribution facilities for the purposes of fuel line, carbon canister, fuel tank, engine, or equipment selection and testing. Scheduling of access shall be arranged with the representative designated in the application for certification.
- (45) All testing must be conducted in accordance with the applicable model year evaporative emission test procedures, except that durability testing and preconditioning may be omitted or conducted at a lower temperature at the Executive Officer's discretion. Any evaporative emission control system parameters must be set to values or positions that are within the range available to the ultimate purchaser as determined by ARB. No break-in, ~~or~~ modifications, adjustments, ~~or~~ special preparation or maintenance will be allowed on fuel lines, carbon canisters, fuel tanks, engines or equipment units chosen for compliance testing without the written consent of the Executive Officer.
- (56) Correction of damage or maladjustment that may reasonably be found to have resulted from shipment of the engine or equipment is permitted only after an initial test of the engine or equipment, except where 100 percent of the ~~manufacturer's~~ Holder's production is given that inspection or maintenance by the ~~manufacturer's~~ Holder's own personnel. The ~~manufacturer~~ Holder may request that the engine or equipment be repaired from shipping damage, and be retested. If the Executive Officer concurs, the engine or equipment may be retested, and the original test results may be replaced by the after-repair test results.
- (67) Engines or equipment must be randomly chosen from the selected evaporative family or subgroup.
- (78) ~~Five fuel lines, carbon canisters, tanks, engines or equipment of the same model within an evaporative family or subgroup will be selected for testing per the applicable test procedure. An evaporative family or subgroup will be deemed to have passed the compliance testing if all five test results the diurnal emissions from all tested engines or equipment units are below the applicable diurnal emission standard in section 2754 or 2757, or the EMEL, if applicable. If any engine or equipment unit has diurnal emissions more than five percent above the applicable diurnal emission standard in section 2754 or 2757, or the EMEL, if applicable, the evaporative family will be deemed to have failed compliance testing. If any engine or equipment unit has diurnal emissions within five percent of the applicable diurnal emission standard in section 2754 or 2757, or the EMEL, if applicable, the engine or equipment unit shall be tested a second time. If the diurnal emissions from an engine or equipment unit tested a second time are below the applicable diurnal emission standard in section 2754 or 2757, or the EMEL, if applicable, the results from the second test~~

~~shall replace the results from the first test. If the diurnal emissions from an engine or equipment unit tested a second time are above the applicable diurnal emission standard in section 2754 or 2757, or the EMEL, if applicable, the evaporative family will be deemed to have failed compliance testing.~~

The fuel lines, carbon canisters, or fuel tanks certified under an Executive Order will be deemed to have passed the compliance testing if all tested samples meet the applicable design standard in section 2754, 2755, or 2757. The fuel lines, carbon canister, or fuel tanks certified under an Executive Order will be deemed to have failed compliance testing if any fuel line, carbon canister, or fuel tank does not meet the applicable design standards in section 2754, 2755, or 2757. If one or more of the test results are above the applicable standard, an evaporative family or subgroup will be deemed to have failed the compliance testing if the upper 95% confidence limit of the five samples is greater than 150%, 130%, or 110% of the applicable performance standards specified in sections 2754 through 2757 of this Article per the following table:

Test Category	"Pass" If "U" is less than or equal to	"Fail" If "U" is greater than
1 st Year of Production of Evaporative Families	1.5*Applicable Standard	1.5*Applicable Standard
2 nd Year of Production of Evaporative Families	1.3*Applicable Standard	1.3*Applicable Standard
3 rd and Subsequent Years of Production of Evaporative Families	1.1*Applicable Standard	1.1*Applicable Standard

Where:

$$U = \bar{x} + 2.776 * \frac{s}{\sqrt{n}}$$

$$\bar{x} = \frac{\sum_{i=1}^n \text{sample}_i}{n}$$

$$s = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n - 1}}$$

$$n = 5$$

(9) An evaporative family may be deemed to have failed compliance testing without testing if any engine or equipment unit selected for testing visibly leaks fuel, except that subsection (a)(6) shall still apply.

(810) If any group of fuel lines, carbon canisters, fuel tanks, engines, or equipment units selected for inspection fails an evaporative emission compliance test as determined by subsection (a)(78) or (a)(9), or fails to conform to the labeling requirements of section 2759, the Executive Officer shall notify the manufacturer in accordance with subsection (b).

(b) Notification of Failure.

If compliance testing identifies fuel lines, carbon canisters, fuel tanks, engines or equipment units evaporative families that do not meet the standards set out in (a)(7) above, or that do not conform with the permeation control design or permeation specifications of in sections 2754 through 2757 or the labeling requirements in section 2759, the Executive Officer will notify the Holder of the Executive Order of Certification covering the fuel lines, carbon canisters, fuel tanks, engines or equipment evaporative families. The Executive Officer shall also notify such Holder that the Executive Order of Certification may be suspended or revoked. The Holder of the Executive Order of Certification shall have 30 calendar days in which to notify the Executive Officer of their intent to provide additional information and/or independent test results for five fuel lines, carbon canisters, fuel tanks, engines, or equipment units, selected by the Executive Officer, that document compliance of the evaporative family, fuel lines, carbon canister, or fuel tanks. An evaporative family will be deemed to have overcome the failure of compliance testing under subsection (a)(8) or (a)(9) of this section 2765 and to have passed compliance testing if the average of the diurnal emissions from the five engines or equipment units selected by the Executive Officer for independent testing under this subsection (b) does not exceed the applicable diurnal emission standard in section 2754 or 2757, or the EMEL, if applicable. The fuel lines, carbon canisters, or fuel tanks certified under an Executive Order will be deemed to have overcome the failure of compliance testing under subsection (a)(8) or (a)(9) of this section 2765 and to have passed compliance testing if the five fuel lines, carbon canisters, or fuel tanks selected by the Executive Officer for independent testing under this subsection (b) meet the applicable design standard in section 2754, 2755, or 2757. The Executive Officer may request the engines, equipment units, fuel lines, carbon canisters, or fuel tanks selected by the Executive Officer for independent testing under this subsection (b) be delivered to an ARB facility for additional inspection or testing. The Executive Officer will consider all relevant information provided by the manufacturer, and other interested parties, including, but not limited to, corrective actions applied by the Holder to the noncompliant evaporative family, fuel lines, carbon canisters, or fuel tanks and or emission credits, to remedy the failure or

determine if the evaporative family, fuel lines, carbon canisters, or fuel tanks comply with the standards in sections 2754 through 2757.

(c) Suspension and Revocation of Executive Orders.

- (1) The Executive Officer shall not revoke or suspend the Executive Order of Certification, without considering any information provided by the Holder of such certification pursuant to (b) above.
- (2) If the results of the compliance testing indicate that the failed fuel lines, carbon canisters, fuel tanks, engines, or equipment units of a particular evaporative family or subgroup certified under an Executive Order are produced at one plant, the Executive Officer may elect to suspend the Executive Order of Certification with respect to that evaporative family for engines or equipment manufactured at that plant.
- (3) Notwithstanding the foregoing, the Executive Officer may suspend an Executive Order of Certification-, in whole or in part, effective upon written notice to the Holder if the Executive Officer finds that:
 - (A) The Holder of the Executive Order of Certification has refused to comply with any of the requirements of this section; or
 - (B) The Holder has submitted false or incomplete information in any report or information provided to the Executive Officer under this section;
 - (C) The Holder has rendered inaccurate any test data submitted under this section;
 - (D) That ARB personnel have been denied the opportunity to conduct activities authorized under this section after a warrant or court order is presented to the Holder;
 - (E) That ARB personnel were unable to conduct activities authorized in this Article because the facility is located in a foreign jurisdiction where local law prohibits those activities.
- (4) The Executive Officer may revoke an Executive Order of Certification for an evaporative family, fuel line, carbon canister, or fuel tank after the Executive Order of Certification has been suspended pursuant to subsection (1), ~~or (2), or (3)~~ of this section if the proposed remedy for the nonconformity, as reported by the Holder to the Executive Officer, is one requiring a design change or changes to the evaporative emission control system, fuel line, carbon canister, or fuel tank as described in the

application for certification of the affected evaporative family, fuel line, carbon canister, or fuel tank ~~or subgroup~~.

- (5) Once an Executive Order of Certification has been suspended for a failed fuel line, carbon canister, fuel tank, engine, or evaporative family equipment, as provided for in subsection (1), (2), or (3) of this section, the Holder must take the following actions before the Executive Order of Certification can be reinstated:
- (A) Remedy the nonconformity;
 - (B) Demonstrate that the fuel line, carbon canister, fuel tank, engine, or evaporative family equipment conforms to the evaporative emission standards in sections 2754 through 2757 and the labeling requirements in section 2759, as applicable, by retesting the each fuel line, carbon canister, fuel tank, engine, or equipment evaporative family in accordance with these regulations and submitting to the Executive Officer samples of all actual production labels used within the evaporative family; and
 - (C) Submit a written report to the Executive Officer, after successful completion of testing on the failed fuel line, carbon canister, fuel tank, engine, or evaporative family equipment that contains a description of the remedy and test results for each fuel line, carbon canister, fuel tank, engine, or equipment evaporative family in addition to other information that may be required by this part.
 - (D) Appeal the suspension under Section 2771.
- (6) Once an Executive Order of Certification for a failed evaporative family, fuel line, carbon canister, or subgroup fuel tank has been suspended pursuant to subsection (1), (2) or (3) of this section, the Holder must take the following actions before the Executive Officer will consider reinstating the Executive Order of Certification:
- (A) Submit a written report to the Executive Officer that identifies the reason for the noncompliance of the fuel lines, carbon canisters, fuel tanks, engines, or evaporative family equipment, describes the proposed remedy, including a description of any proposed quality control and/or quality assurance measures to be taken by the Holder to prevent future occurrences of the problem, and states the date on which the remedies will be implemented; and
 - (B) Demonstrate that the evaporative family, fuel line, carbon canister, or fuel tank subgroup for which the Executive Order of Certification has been suspended does in fact comply with the regulations of this

part by testing no fewer than five fuel lines, carbon canisters, fuel tanks, engines, or equipment units. ~~The results must meet the “Pass” criteria in subsection (a)(7).~~ Such testing must comply with the provisions of this section.

- (7) Once the Executive Order of Certification has been revoked for an evaporative family, fuel lines, carbon canister, or fuel tank subgroup, if the Holder desires to continue introduction into commerce of a modified version of that evaporative family or subgroup, the Holder must:

After implementing the change or changes intended to remedy the nonconformity, demonstrate that the modified evaporative family, fuel line, carbon canister, or fuel tank does in fact conform to the applicable standards of this Article by testing five fuel lines, carbon canisters, fuel tanks, engines or equipment units selected by the Executive Officer from the modified evaporative family unless such testing is waived by the Executive Officer.

- (8) To permit a Holder to avoid storing non-test engines or equipment while conducting subsequent testing of the noncomplying evaporative family, a Holder may request that the Executive Officer conditionally reinstate the Executive Order of Certification for that evaporative family.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code. Reference: Section 43013, Health and Safety Code.

§2766. Exemptions.

~~(a) — Low Permeation Tanks - Metal tanks, coextruded multilayer tanks, and structurally integrated nylon fuel tanks on SORE equipment with engine displacements < 80 cc are specifically exempt from section 2755 of this Article through model year 2019. Tank permeation data is not required to be submitted in the certification application. This exemption shall not apply to model year 2020 and subsequent model year evaporative emission control systems or fuel tanks.~~

~~(b) — Small Production Volume Tank Exemption. These engines or equipment qualifying under section 2752(a)(2630) are exempt from the diurnal standards in section 2754 and the fuel tank permeation standard in 2754 of this Article through model year 2019 if the equipment contains the following:~~

~~(1) — An evaporative emission control system certified by an engine manufacturer that uses an actively purged carbon canister, an equivalent fuel line, and a sealed tethered fuel cap; or~~

~~(2) — An evaporative emission control system that passively vents fuel tank vapors to a carbon canister with a minimum butane working capacity as~~

specified in TP-902, an equivalent fuel line, and a sealed tethered fuel cap.

Tank permeation data is not required to be submitted in the certification application for Small Production Volume Tanks. This exemption shall not apply to model year 2020 and subsequent model year evaporative emission control systems or fuel tanks.

~~(a)(c)~~ Equipment Fueled by a Vehicle Fuel Tank – Generators that are fueled from the fuel tank of an on-road motor vehicle or marine vessel are exempt from the diurnal emission, performance requirements in section 2754 and the fuel tank permeation, and carbon canister design requirements standards in section 2754~~(b)~~. However, these generators must use fuel lines/hose that meets the design standard requirements specified in section 2754~~(b)~~.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code. Reference: Section 43013, Health and Safety Code.

§2767. Innovative Products.

- (a) The Executive Officer may make a determination that tank vent emission control achieved by an innovative technology may be approved per section 2767.1 if an evaluation of the innovative technology reveals that the technology can enable evaporative emission control systems to meet the evaporative emission requirements in section 2754 or 2757.
- (b) The Executive Officer may make a determination to exempt engines and equipment from section 2756(b) of this Article if an evaluation of the innovative technology reveals that the technology can enable engines or equipment to meet the diurnal ~~evaporative~~ emission standards in section 2754.
- ~~(c)~~ The Executive Officer may make a determination that fuel tanks that have undergone special treatment or that have been manufactured from a unique material are “equivalent fuel tanks” if it can be demonstrated that they meet the permeation standard in section 2755 of this Article when using TP-901, July 26, 2004. Tanks deemed equivalent augment “equivalent fuel tanks” already defined in section 2752 of this Article.
- ~~(c)(d)~~ A manufacturer must apply in writing to the Executive Officer for an innovative product equivalency claimed under subsection (a), or (b, or e). The application must include the supporting documentation that quantifies the emissions from at least 5 engines or equipment units with complete evaporative emission control systems using samples of the innovative product, including the test methods used to generate the data. The test methods shall include criteria for reproducibility, accuracy, and sampling and laboratory procedures. In addition, the applicant must provide any information to enable the Executive Officer to

establish conditions for making a determination of “equivalency”. All information, including proprietary data submitted by a manufacturer pursuant to this section, shall be handled in accordance with the procedures specified in title 17, California Code of Regulations, sections 91000-91022.

- ~~(d)~~(e) Within 30 days of receipt of the application, the Executive Officer shall determine whether an application is complete.
- ~~(e)~~(f) Within 90 days after an application has been deemed complete, the Executive Officer will determine whether, under what conditions, and to what extent, a determination of “equivalency” will be permitted. The applicant and the Executive Officer may mutually agree to a longer time period for reaching a decision. An applicant may submit additional supporting documentation before a decision has been reached. The Executive Officer will notify the applicant of the decision in writing and specify such terms and conditions that are necessary to ensure that emissions from engines or equipment using use of the product will meet the emissions reductions specified in subsection (a, b, or c) evaporative emission standards in section 2754 or 2757.
- ~~(g)~~ In granting an “equivalency” determination for a fuel tank, the Executive Officer shall specify the test method(s) for determining conformance to the conditions established.
- ~~(h)~~ For any fuel tank for which an innovative product “equivalency” has been granted pursuant to this section, the manufacturer shall notify the Executive Officer in writing at least 30 days before the manufacturer changes a product’s design, connections, or other factors that may effect the ROG emissions during recommended usage. The manufacturer must also notify the Executive Officer within 30 days after the manufacturer learns of any information that would alter the emissions estimates submitted to the Executive Officer in support of the “equivalency” application.
- ~~(f)~~(i) If the permeation evaporative emission standards or test procedures are amended for a product category, all innovative “equivalency” determinations granted for products in the product category, except as provided in subsection ~~(j)~~(g), have no force and effect as of the effective date of the amended permeation evaporative emission standards or test procedures.
- ~~(g)~~(j) If the Executive Officer believes that a fuel tank product for which an “equivalency” determination has been granted no longer meets the criteria for an innovative product specified in subsections ~~(a), or (b, or c)~~, the Executive Officer may hold a public hearing in accordance with the procedures specified in title 17, California Code of Regulations, article 1, subchapter 1.25, to determine if the “equivalency” determination should be modified or revoked.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2767.1. Approved Evaporative Emission Control System Components.

- (a) The Executive Officer may make a determination to approve components (fuel tanks, fuel hoses, lines, and carbon canisters) for use on evaporative emission control systems that have been shown to meet the Design Requirements Standards in Table 1 of section 2754, section 2755, or section 2757 of this Article.
- (b) A component manufacturer must apply in writing to the Executive Officer for a component claimed under subsection (a). The application shall include the supporting documentation that quantifies the emissions or performance from at least five production samples of the component intended for installation on small off-road engines, including the test methods used to generate the data. If the test methods are not as prescribed in this article the test methods shall include criteria for reproducibility, accuracy, and sampling and laboratory procedures. All information, including proprietary data submitted by a manufacturer pursuant to this section, shall be handled in accordance with the procedures specified in title 17, California Code of Regulations, sections 91000-91022.
- (c) Within 30 days of receipt of the application, the Executive Officer shall determine whether an application is complete.
- (d) Within 90 days after an application has been deemed complete, the Executive Officer will approve/disapprove the component. If approved, an Executive Order will be issued for the component for a period of four years. The applicant and the Executive Officer may mutually agree to a longer time for reaching a decision. An applicant may submit additional supporting documentation before a decision has been reached. The Executive Officer will notify the applicant of the decision in writing and specify such terms and conditions that are necessary to ensure that the component will meet the performance design standards in subsection (a).
- (e) If the Evaporative Emission ~~Performance and Design~~ Standards ~~in (reference section 2754, 2755, or 2757) or test procedures~~ are amended for a product category, all “approvals” granted for components in the product category, except as provided in subsection (f), have no force and effect as of the effective date of the amended standards or the date testing must be conducted according to the amended test procedures, as specified in CP-901 or CP-902 unless the applicable component requirements are not amended.
- (f) If the Executive Officer determines that a component for which an “approval” has been granted no longer meets the performance design standards specified in

subsection (a), the Executive Officer may deny, suspend or revoke the Executive Order following provisions of Section 2770 of this Article.

- (g) Certification of a fuel line or fuel tank may be renewed prior to the end of the four-year certification period if no changes to the component have been made that could affect its evaporative emissions. A Holder must submit a declaration signed by an authorized representative stating that no changes have been made that could affect the component's evaporative emissions as part of a request for certification renewal. The signed declaration shall also state that the certification test data originally submitted to ARB still represent the model of the component with the highest permeation rate relative to the permeation emission standard.
- (h) Certification of a carbon canister may be renewed prior to the end of the four-year certification period if no changes to the carbon canister have been made that could affect its butane working capacity. A Holder must submit a declaration signed by an authorized representative stating that no changes have been made that could affect the butane working capacity of the carbon canister as part of a request for certification renewal. The signed declaration shall also state that the certification test data originally submitted to ARB still represent the butane working capacity of the carbon canister.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2768. Variances.

- (a) Any manufacturer of small off-road engines or equipment that use small off-road engines ~~or fuel tanks~~ subject to this Article that cannot meet the requirements set forth in sections 2754 through 2757 of this Article, due to extraordinary reasons beyond the manufacturer's reasonable control, may apply in writing for a variance. The variance application must set forth:
- (1) The provisions of the regulations for which a variance is sought;
 - (2) the specific grounds upon which the variance is sought;
 - (3) the proposed date(s) by which compliance will be achieved; and
 - (4) a compliance plan detailing the method(s) that will achieve compliance.
- (b) Within 75 calendar days of receipt of a variance application containing the information required in subsection (a), the Executive Officer or his nominee shall hold a public hearing to determine whether, under what conditions, and to what extent, a variance is necessary and should be allowed. Notice of the time and place of the hearing must be sent to the applicant by certified mail not less than 30 days before to the hearing. Notice of the hearing must also be submitted for

publication in the California Regulatory Notice Register and sent to every person who requests such a notice, not less than 30 days before the hearing. The notice must state that the parties may, but not need to be, represented by counsel at the hearing. At least 30 days before the hearing, the variance application must be made available to the public for inspection. Interested members of the public must be allowed a reasonable opportunity to testify at the hearing and their testimony must be considered.

- (c) No variance may be granted unless all of the following findings are made:
 - (1) that, due to reasons beyond the reasonable control of the applicant, compliance would result in extraordinary economic hardship;
 - (2) that the public interest in mitigating the extraordinary hardship to the applicant by issuing the variance outweighs the public interest in avoiding any increased emissions of air contaminants that would result from issuing the variance;
 - (3) that the compliance plan proposed by the applicant can reasonably be implemented, and will achieve compliance as expeditiously as possible; and
 - (4) that the applicant has mitigated the noncompliance to the maximum extent feasible.
- (d) Any variance order shall specify a final date by which compliance will be achieved. Any variance order shall contain a condition that specifies increments of progress necessary to assure timely compliance, and such other conditions that the Executive Officer, in consideration of the testimony received at the hearing, finds necessary to carry out the purposes of Division 26 of the Health and Safety Code.
- (e) A variance shall cease to be effective upon failure of the party to whom the variance was granted to comply with any term or condition of the variance.
- (f) Upon the application of any person, the Executive Officer may review, and for good cause, modify or revoke a variance from requirements of sections ~~2753~~2754 through ~~2756~~2757 or section 2759 after holding a public hearing in accordance with the provisions of subsection (b).
- (g) A variance shall not be granted for more than one full model year after the year such variance is granted.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2769. Inspection.

The Executive Officer, or an authorized representative of the Executive Officer, may periodically inspect any facility of a Holder, manufacturers of equipment, manufacturers of engines, or manufacturers of evaporative emission control components, technology, or systems subject to this Article as deemed necessary to ensure compliance with these regulations. Failure of a Holder, manufacturer, distributor, or retailer or other person subject to this Article to allow access for inspection purposes shall be grounds for suspension or revocation of an Executive Order of Certification.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2770. Denial, Suspension or Revocation of Certification.

- (a) The Executive Officer for just cause may deny, suspend or revoke an Executive Order of Certification in any of the following circumstances:
- (1) An applicant or Holder has materially misrepresented the meaning, findings, effect or any other material aspect of the certification application, including submitting false or incomplete information in its application for certification regardless of the applicant's personal knowledge of the falsity or incompleteness of the information;
 - (2) An applicant or Holder that uses a label other than the approved label on any engine or equipment, or the label used otherwise fails to comply with the requirements of this Article.
 - (3) An applicant or Holder may be denied certification or be subject to a suspension or revocation action pursuant to this section based upon the actions of an agent, employee, licensee, or other authorized representative.
 - (4) Pursuant to sections 2754.1(b)(10) and (11), 2765(c), and 2769 above.
 - (5) A Holder does not meet the bond requirements of section 2774.
- (b) The Executive Officer shall notify the applicant or Holder by certified mail of any action taken by the Executive Officer to deny, suspend or revoke any certification granted under this Article. The notice shall set forth the reasons for and evidence supporting the action(s) taken. A suspension or revocation is effective upon receipt of the notification.
- (c) A Holder may request that the suspension or revocation be stayed pending a hearing under section 2771. In determining whether to grant the stay, the

Executive Officer shall consider the harm the Holder will likely suffer if the stay is not granted. The Executive Officer shall deny the stay if the adverse effects of the stay on the public health, safety, and welfare outweigh the harm to the Holder if the stay is not granted.

- (d) Once an Executive Order of Certification has been suspended pursuant to (a) above, the Holder must satisfy and correct all noted reasons for the suspension and submit a written report to the Executive Officer advising him or her of all such steps taken by the Holder before the Executive Officer will consider reinstating the Executive Order of Certification.
- (e) Nothing in this section shall prohibit the Executive Officer from taking any other action provided for by law for violations of the Health and Safety Code.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2771. Appeals.

(a) Any person whose application for Executive Order of Certification has been denied, or whose certification has been suspended or revoked may request a hearing to review the action as provided herein. Any such request shall be made within ~~fifteen working~~twenty days of the date the action for which review is sought became final.

(ab) Hearing Procedure.

Except as provided for in subsection (bc) below, any appeal pursuant to this section shall be conducted in accordance with the Administrative Hearing Procedures for Petitions for Review of Executive Officer Decisions, title 17, California Code of Regulations, Division 3. Chapter 1 Article 2, commencing with section 60055.1.

(bc) Review by written submission.

- (1) In lieu of the hearing procedure set forth in (ab) above, a ~~manufacturer~~ Holder may request that a review of the Executive Officer's decision be conducted by a hearing officer solely by written submission.
- (2) A ~~manufacturer~~ Holder may request a review of the Executive Officer's decision to deny, suspend or revoke a certification no later than 20 days from the date of issuance of the notice of the denial, suspension, or revocation. Such request shall include, at a minimum, the following:
 - (A) name of the ~~manufacturer~~ Holder, the name, address and telephone number of the person representing the ~~manufacturer~~

Holder and a statement signed by a senior officer of the ~~manufacturer~~ Holder warranting that the representative has full authority to bind the ~~manufacturer~~ Holder as to all matters regarding the appeal;

- (B) copy of the Executive Order granting certification and the written notification of denial;
 - (C) ~~a statement of facts and explanation of the issues to be raised setting forth the basis for challenging the denial, suspension, or revocation (conclusory allegations will not suffice) together with all documents relevant to those issues~~A statement of the objections to the decision upon which review is requested; a verified statement of the facts, data and other relevant evidence in support of the objections; a demand for the specific relief the petitioner seeks; a short, concise statement of legal argument, with citation to authorities, in support of the objections and the relief requested. The verification may be made on information and belief; and
 - (D) the signature of the representative named in (A) above.
- (3) Upon receipt by the Clerk of the Board of a request for review, the request shall be referred to the administrative hearing office of the state board for assignment of a hearing officer.
 - (4) Within 15 days of appointment of a hearing officer ARB staff shall file with the Clerk of the Board and serve on the petitioners~~submit~~ a written response to the ~~manufacturer's~~ Holder's submission and documents ~~in support of the Executive Officer's action no later than 10 days after receipt of the manufacturer's submission;~~
 - (5) within 7 days of receipt of the ARB response, the ~~manufacturer~~ Holder may submit one rebuttal statement which shall be limited to the issues raised in the ARB rebuttal;
 - (6) if the ~~manufacturer~~ Holder submits a rebuttal, ARB staff may, within 7 days of receipt of the ~~manufacturer's~~ Holder's rebuttal, submit one rebuttal statement which shall be limited to the issues raised in the ~~manufacturer's~~ Holder's rebuttal; and
 - (7) the hearing officer shall receive all statements and documents and render a written decision. The hearing officer's decision shall be mailed to the ~~manufacturer~~ Holder no later than 60 working days after the final deadline for submission of papers.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2772. Penalties.

In addition to suspension or revocation of an Executive Order of Certification as provided in this Article, the Executive Officer may seek civil or criminal penalties as provided for by law and/or such equitable relief deemed appropriate by the Executive Officer for any violation of these regulations. Such penalties shall apply on a per engine, or equipment unit, or evaporative component basis. Each day in which there is a violation shall be a separate violation.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2773. Severability.

Each part of this aArticle is severable, and in the event that any part of this aArticle is held to be invalid, the remainder of this aArticle remains in full force and effect.

NOTE: Authority cited: Sections 39600, 39601, and 43013, Health and Safety Code.
Reference: Section 43013, Health and Safety Code.

§2774. Bond Requirements.

- (a) This section generally applies to Holders. It also applies to importers that do not certify evaporative emission control systems as described in paragraph (j) of this section. Before introducing certified engines into California commerce, a Holder shall post a bond to cover any potential compliance or enforcement actions under this Article with respect to evaporative emission control systems certified under this part unless the Holder demonstrates in an application for certification the Holder is able to meet any potential compliance- or enforcement-related obligations, as described in this section. Note that a Holder might also need to post bond under this section to meet warranty obligations under section 2760. Any bond posted to meet the requirements of this section shall be obligated to the California Air Resources Board.
- (b) The bond requirements apply if the Holder does not have long-term assets in the United States meeting either of the following thresholds:
 - (1) A threshold of \$3 million applies if the Holder has held an Executive Order of Certification in each of the preceding ten years without failing a compliance test under section 2765 or having been found by the Executive Officer to be out of compliance with any requirement of this Article.

- (2) A threshold of \$10 million applies if the Holder does not qualify for the smaller bond threshold in paragraph (b)(1) of this section.
- (c) For the purpose of establishing the Holder's level of long-term assets under paragraph (b) of this section, the Holder must include the values from the Holder's most recent balance sheet for buildings, land, and fixed equipment, but subtract depreciation and related long-term liabilities (such as a mortgage). If the Holder has sufficient long-term assets to avoid bond payments under this section, the Holder must identify the location of these assets in an application for certification.
- (d) Determine the value of the bond as follows:
- (1) Calculate a value based on the per-engine bond value of \$500 and on the projected California-directed production volume from each displacement grouping for the model year. For example, if the Holder has projected California-directed production volumes of 2,000 engines in 2018, the calculated bond amount is \$1,000,000. If the calculated value is less than \$500,000, the appropriate bond amount is \$500,000. If the calculated value exceeds the applicable threshold value specified in paragraph (b) of this section, use the applicable threshold value as the appropriate value of the bond. These values may be adjusted as described in paragraphs (d)(2) and (3) of this section. A Holder may generally change the projected California-directed production volume under ~~§1054.225~~ CP-901 or CP-902 during the model year; however, a Holder may not decrease the bond based on new projected California-directed production volumes once the Holder has imported or otherwise introduced into California commerce any engine from that model year.
- (2) If a Holder's or importer's estimated or actual California-directed production volume increases beyond the level appropriate for that Holder's or importer's current bond payment, the Holder must post additional bond to reflect the increased volume within 90 days after the Holder changes the estimate or determine the actual production volume. A Holder may not decrease the bond in a given year, but may calculate a lower bond value in a later year based on the highest actual California-directed production volumes from the preceding three years.
- (3) The minimum bond value is \$25,000 instead of \$500,000 for a Holder with ~~sales~~ production volume of fewer than 1000 engines or equipment units who has held an Executive Order in each of the preceding five years without failing a compliance test under section 2765 or having been found by the Executive Officer to be out of compliance with any requirement of this Article.

- (e) The threshold identified in paragraph (b) of this section and the bond values identified in paragraph (d) of this section are in 2016 dollars. These values shall be adjusted for 2020 and later, and every 10 years after that, by considering the current Consumer Price Index values published by the Bureau of Labor Statistics relative to 2016. These values shall be rounded for thresholds and total bond obligations as follows:
- (1) Round calculated values at or below \$125,000 to the nearest \$5,000.
 - (2) Round calculated values above \$125,000 and at or below \$2.25 million to the nearest \$50,000.
 - (3) Round calculated values above \$2.25 million to the nearest \$500,000.
- (f) If a Holder is required to post a bond under this section, the Holder shall get the bond from a third-party surety that is cited in the U.S. Department of Treasury Circular 570, "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" (<http://www.fms.treas.gov/c570/c570.html#certified>). A Holder shall maintain this bond for every year in which the Holder sells certified engines. The surety agent remains responsible for obligations under the bond for two years after the bond is cancelled or expires without being replaced.
- (g) If a Holder forfeits some or all of a bond in an enforcement action, the Holder must post any appropriate bond for continuing sale within 90 days after forfeiting the bond amount.
- (h) A Holder will forfeit the proceeds of the bond posted under this section if the Holder needs to satisfy any California administrative settlement agreement, administrative final order, or judicial judgment against the Holder arising from a violation of this Article, or violation of any other applicable provisions of the California Clean Air Act.
- (i) If a Holder is required to post a bond under this section, the Holder shall note that in an application for certification as described in CP-901 or CP-902. Certification is conditioned on a Holder's compliance with this section. All Executive Orders held by a Holder shall be suspended if the Holder fails to comply with the requirements of this section. The Executive Officer may also revoke a Holder's Executive Orders if the Holder does not meet the requirements of this section.
- (j) The following provisions apply to importers of engines or equipment for resale when the importer is not also the Holder:
- (1) The importer and the Holder are each responsible for compliance with the requirements of this Article. For example, the Executive Officer may

require the importer to comply with the warranty requirements in section 2760.

- (2) The importer does not need to post bond if the importer or the Holder complies with the bond requirements of this section. The importer also does not need to post bond if the Holder complies with the asset requirements of this section and the repair-network provisions of section 2760.