LARGE OFF-ROAD EVAPORATIVE EQUIPMENT CERTIFICATION (Applicable to engines/equipment < 1 Liter engine displacement) Certification Summary Sheet

- 1. Model Year:
- 2a. Manufacturer:
- 2b. EPA Assigned Manufacturer Code:
- 2c. Manufacturer Contact Information:

a) Manufacturer Contact	b) Production Plant Location/Contact
Contact:	Contact:
Title:	Title:
Company:	Company:
Address:	Address:
Phone No.: Fax No.: Email:	Phone No.: Fax No.: Email:

3. Evaporative Family Name:

4. Engine families within the evaporative family above:

5. Process Code:

 6. Executive Order (For ARB Use Only):
 Confidential

 7. California Sales Volume (units):
 8. 50-State Sales Volume (units):

9. Equipment Applications:

Walk-Behind Lawnmower Snowblower Edger ____ Brushcutter Riding Mower Non-Backpack Blower Backpack Blower Tractor Chainsaw Compressor Line Trimmer Leaf Blower/Vacuum Pressure Washer ____ Go-Cart Pump Hedge Trimmer ____ Other_____ Tiller ____Stump Beater Ice Auger ____Commercial Turf Generator Set

10. Certification Application:

a) Performance Standards _____ Fill out pages 1-3, 7-12

- b) Design Standards ____ Fill out pages 1, 4-5, 7-12
- c) Equipment fueled by on-road vehicle/marine vessel fuel tank _____ Fill out pages 1, 6-12 (as applicable)

FOR SYSTEMS CERTIFIED TO PERFORMANCE STANDARDS (Section 2754(a)) Large Off-Road Evaporative Certification Summary Sheet

1. Certification Information

- a) New Testing?: _____ b) if carry over/carry across, from which evaporative family: ______
 c) Test Engine or Equipment Model: ______ d) Test Equipment ID: ______
- e) Test Fuel:
- f) Running Loss Vented Emissions Controlled (yes/no): (If yes, please provide running loss description in the evaporative emission
- system description section, item #5)
- g) Test Procedure:
- h) Alternative Test Procedure Approval Number (if applicable):
- i) Declared Evaporative Model Emission Limit (EMEL) in grams:
- i) Associated Evaporative Family Emission Limit Differential (EFELD) in grams:
- Note: No engine or equipment emissions within the family could be closer to its respective standard than the EFELD calculated from the declared EMEL for the worst case engine or equipment.

2. Special Test Equipment

3. Fuel Cap

- a) Is the cap permanently tethered? (Yes/No)
- b) Does the fuel cap make a vapor seal? (Yes/No)
 - If no, innovative product Executive Order #
- c) Is the user provided with an audible or physical feedback of the establishment of vapor seal?
- (Yes/No)

Please provide description of the fuel cap's features as part of the evaporative emission system description in item #5

4. Certification Data

a.	b. Type (Certification	Official 24-Hour Diurnal Test Results, g/day ⁽¹⁾						
	CTG or Confirmatory RTG)	c. Test Completion Date	d. Certification Test Result (g/day)	e. Standard (g/day)				

Note: (1) Diurnal emissions and standards must be expressed to two significant digits.

5. Evaporative Emission System a) Provide an engineering description of the evaporative emission system. The description must also explain

b) Provide a description ar method and vapor seal.)	nd engineering diagram of the fu	el cap design (including permane	nt tethering

how vented tank emissions are controlled from being emitted into the atmosphere during engine operation.

6. Processed By: Date Processed Reviewed By: Date Reviewed:

FOR SYSTEMS CERTIFIED BY DESIGN (Section 2754(b)) Large Off-Road Evaporative Certification Summary Sheet

1. Certification Information

a) New Testing?: _____ b) if carry over/carry across, from evaporative family: _____

c) Test Fuel:

d) Running Loss Vented Emissions Controlled (yes/no): _____ (If yes, please provide running loss description in the evaporative emission system description section, item #4)

e) Specify Fuel Tank Barrier Type (i.e., Metal, Coextruded, HDPE, etc.):

f) Test Procedures(s): _

g) Alternative Test Procedure(s) Approval Number(s) (if applicable):

h) Test component identification:

Tank	Hose	Vent Control

2. Fuel Cap

- a) Is the cap permanently tethered? (Yes/No)
- a) Is the cap permanently tethered? (Yes/No)
 b) Does the fuel cap make a vapor seal? (Yes/No)
 - If no, innovative product Executive Order #

c) Is the user provided with an audible or physical feedback of the establishment of vapor seal? (Yes/No)

Please provide description of the fuel cap's features as part of the evaporative emission system description in item #4

3. Certification Data

		Official Design Declaration									
	1a. Test No	1b. Type (Certification CTG or Confirmatory RTG)	lc. Test Completion Date	ld. Measured Design Value	2. or Component Executive Order Number(s)	3. Regulatory Design Requirement					
a. Fuel Hose Permeation					Complete page 7 if using certified components						
b. Fuel Tank Permeation ⁽¹⁾					Complete page 7 if using certified components						
c. Carbon Canister Butane Working Capacity					Complete page 7 if using certified components						
d. Other Vent Control					Complete page 7 if using certified components						

Note: (1) Fuel tank permeation emissions must be expressed to two significant digits.

4. Evaporative Emission System

v vented t	ank emissions	cription of the eva are controlled fro	m being emitt	ed into the atmo	sphere during	engine operation	1.
ssed By:		Date Processed		Reviewed By:		Date Reviewed:	

EQUIPMENT FUELED BY ON-ROAD VEHICLE/MARINE VESSEL FUEL TANK (Section 2766(c)) Large Off-Road Evaporative Certification Summary Sheet

1. Certification Information

a) New Testing?: _____ b) if carry over/carry across, from which evaporative family: _____

- c) Test Fuel:
- d) Test Procedure:
- e) Alternative Test Procedures Approval Number:_____
- f) Test component identification:

2. Fuel Line

		Official Design Declaration								
	1a. Test No	1b. Type (Certification CTG or Confirmatory RTG)	lc. Test Completion Date	ld. Measured Design Value	2. or Component Executive Order Number(s)	3. Regulatory Design Requirement				
a. Fuel Hose Permeation					Complete page 7 if using certified components					

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Processed By: Date Processed Reviewed By: Date Reviewed:

Large Off-Road Evaporative Certification Database Form (Supplementary Information)

MODEL SUMMARY

S1.	S2.		S3.		S4.	S5.		S6.	S7.	S8.	S9.	S10.	S11.	S12.	S13.	S14.
Case Equipment (Check Model		upment all appropriate)		all appropriate) C	Engine Class $\leq 1 L$	Fuel System (FI or	System (Liters) (FI or				Nominal Fuel Line	l Line e Inside	2	Fuel Tank Executive Order	y Tank Executive Executive Order	Carbon Canister or Other Venting
One)		CA Only	49- State	50- State	(Yes or No)	CARB)	Total	Nominal	Area (m ²)		Length ⁽¹⁾ (mm)	Diameter (mm)		Older		Control Executive Order

(1) The nominal fuel line lengths can be grouped into increment of \pm 3 inches (76 mm)

Large Off-Road Evaporative Component Parts Summary Sheet

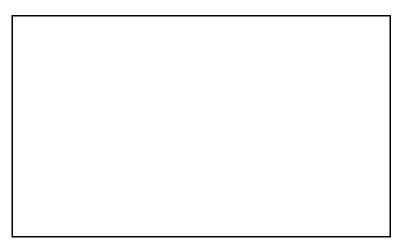
MODEL SUMMARY

S2.	S12a.	S13a.	S14a.
Engine or Equipment Model	Fuel Tank Part Number(s)	Fuel Line Part Number(s)	Carbon Canister or Other Venting Control Part Number(s)

S15. LABELING:

]	Evaporative emission label format approved? No Yes If yes, reference approval:
	Sample label attached? No Yes (place label in #S17)
]	Have any changes been made since the last approval? No Yes If yes, provide a brief explanation of the changes:
-	
-	
-	
-	
-	
S16.	WARRANTY:
]	Evaporative emission warranty approved? No (Provide full warranty statement in #S18)
	Yes (Reference approval:)
]	Have any changes been made since the last approval? No Yes If yes, provide a brief explanation of the changes:
-	
-	
-	
-	
-	

S17. EVAPORATIVE EMISSION LABEL INFORMATION



S18. EVAPORATIVE EMISSION WARRANTY STATEMENT

S19. FUEL TANK SOAK INFORMATION

Submit fuel tank soak data, Figure 1 of TP-901 (Test Procedure for Determining Permeation Emission from Small Off-Road Engines and Equipment Fuel Tanks) and the calculated correlation coefficient. (This section is only applicable to tanks that are soaked at non-elevated temperature (30° C± 10° C) for less than 140 days and tanks with a nominal wall thickness of greater than 0.2" (5 mm) that are soaked at an elevated temperature (40° C± 2° C) for less than 140 days).

S20. WORST-CASE DETERMINATION

Provide an engineering evaluation as to the basis/analysis for the worst-case test engine/equipment or component (fuel line, fuel tank, canister) selection for certification testing.

S21. ADDITIONAL INFORMATION AND COMMENTS