

ATTACHMENT 4
SMALL OFF-ROAD EVAPORATIVE EQUIPMENT CERTIFICATION
(Applicable to engines/equipment > 80 cc engine displacement (2020 and later MYs))
Certification Summary Sheet

Date:

1. **Model Year:**
 2a. **Manufacturer:**
 2b. **U.S. EPA-Assigned Manufacturer Code:**

2c) Manufacturer Contact Information Contact Name: Title: Company Name: Address: Phone No.: Fax No.: Email:	2d) Production Plant Location/Contact Information Contact Name: Title: Company Name: Address: Phone No.: Fax No.: Email:
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3. **Evaporative Family Name** (Use updated naming convention in Attachment 1 in CP-902, amended September 18, 2017):

4. **Engine families within the evaporative family above:**

5. **Process Code (e.g. New, Running Change):**

6. **Executive Order (For CARB Use Only):**

7. Confidential Information

- a) Projected model year production volume (units) in California: _____
 b) Projected model year production volume (units) in U.S.: _____
 c) Date of expected introduction into California commerce: _____

8. **Equipment Applications:**

- | | | |
|--|---|--|
| <input type="checkbox"/> Backpack Blower | <input type="checkbox"/> Hedge Trimmer | <input type="checkbox"/> Shredder |
| <input type="checkbox"/> Brushcutter | <input type="checkbox"/> Auger | <input type="checkbox"/> Snowblower |
| <input type="checkbox"/> Chainsaw | <input type="checkbox"/> Line Trimmer | <input type="checkbox"/> Specialty Vehicle |
| <input type="checkbox"/> Chipper | <input type="checkbox"/> Log Splitter | <input type="checkbox"/> Stump Grinder |
| <input type="checkbox"/> Commercial Turf | <input type="checkbox"/> Non-Backpack Blower/Vacuum | <input type="checkbox"/> Tiller |
| <input type="checkbox"/> Compressor | <input type="checkbox"/> Pressure Washer | <input type="checkbox"/> Lawn and Garden Tractor |
| <input type="checkbox"/> Edger | <input type="checkbox"/> Pump | <input type="checkbox"/> Walk-Behind Lawnmower |
| <input type="checkbox"/> Generator Set | <input type="checkbox"/> Rear Engine Riding Mower | <input type="checkbox"/> Other: _____ |

9. **Bond Requirement:**

Has the manufacturer submitted bond worksheet demonstrating compliance with the bond requirements of 13 CCR Section 2774 and associated bond if applicable? Yes/No _____

10. **Certification Application:**

Does the manufacturer have any evaporative EOs that have been suspended or revoked? Yes/No _____

- i) If Yes, you must certify using “a) Diurnal Emission Standards” option below. Subject to provisions of Section 2753(f), specify what is the earliest model year you can begin to certify any evaporative families to “b) Design Standards” option?

Model year: _____

- ii) If No, then select your certification option below.

a) Diurnal Emission Standards _____

Fill out pages 1-2, Section A, and Questions #S1-S23

b) Design Standards _____

Fill out pages 1-2, Section B, and Questions #S1-S23

c) Equipment fueled by on-road vehicle/marine vessel fuel tank _____

Fill out pages 1-2, Section C, and Questions #S1-S23 (as applicable)

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SECTION A
FOR SYSTEMS CERTIFIED TO DIURNAL EMISSION STANDARDS (Section 2754)
Small Off-Road Evaporative Certification Summary Sheet

1. Certification Information

- a) New Testing? (Yes/No) _____
- b) if carry over, from which model year: _____ and evaporative family: _____
 (Note: Per CP-902, no carry across data allowed)
- c) Worst Case Test Engine or Equipment Model: _____
- d) Test Equipment ID: _____
- e) Test Fuel (e.g., LEV III gasoline): _____
- f) 1. Running Loss Vented Emissions Controlled (Yes/No): _____ 2. If Yes, specify (e.g. Active, Passive, Innovative): _____
 (If passive or innovative, please provide running loss description in the evaporative emission system description section, item #6)
 Running Loss Approval Number (if applicable): _____
- g) Specify Fuel Tank Barrier Type (i.e., Metal, Coextruded, HDPE, etc.): _____
- h) Test Procedure (e.g., TP-902, amended September 18, 2017): _____
- i) Alternative Test Procedure Approval Number (if applicable): _____
- j) Declared Evaporative Model Emission Limit (EMEL) in grams: _____
- k) 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 #6 including description of fuel tank tether and indication of establishment.
- d) Does the fuel cap meet the durability requirements in TP-902 Section 2.1(a)? (Yes/No) _____

4. Carbon Canister and Fuel Line Installation Requirements

- a) Is the carbon canister installed per Section 2754(d)? (Yes/No) _____
- b) Are the fuel lines securely connected to prevent fuel leakage throughout the useful life of the evaporative emission control system and tested according to ANSI testing requirements per Section 2754(e)? (Yes/No) _____

5. Certification Data

a. Test Equipment ID	b. Test No.	c. Engine or Equipment Model	d. Type (Certification CTG or Confirmatory RTG)	e. Fuel Tank Nominal Capacity (L)	f. Hot Soak Test Mass (g)	Official 24-Hour Diurnal Test Results ⁽¹⁾		
						g. Test Completion Date	h. Diurnal Certification Test Result (g organic material hydrocarbon equivalent·day ⁻¹)	i. Diurnal Standard (g organic material hydrocarbon equivalent·day ⁻¹)

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

(2) CARB may direct the manufacturer to conduct a retest if the original test results indicate marginal (within 5% of the standard) compliance.

6. Evaporative Emission System

a) Provide an engineering description of the evaporative emission system including schematics. The description must also explain how vented tank emissions are controlled from being emitted into the atmosphere during engine operation. (Refer to CP-902, amended September 18, 2017, for requirements, including Section 5.8 and Section 6.)

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SECTION B
FOR SYSTEMS CERTIFIED TO DESIGN STANDARDS (Section 2754)
Small Off-Road Evaporative Certification Summary Sheet

1. Certification Information

- a) New Testing?: (Yes/No) _____
- b) if carry over, from which model year: _____ and evaporative family: _____
 (Note: Per CP-902, no carry across data allowed)
- c) Test Fuel (e.g. LEV III gasoline): _____
- d) Running Loss Vented Emissions Controlled (Yes/No): _____
 (If yes, please provide running loss description in the evaporative emission system description section, item #5)
 Running Loss Approval Number (if applicable): _____
- e) Specify Fuel Tank Barrier Type (i.e., Metal, Coextruded, HDPE, etc.): _____
- f) Test Procedure (e.g. TP-902, amended September 18, 2017): _____
- g) Alternative Test Procedure(s) Approval Number(s) (if applicable): _____
- h) Test component identification:

Tank	Hose	Vent Control

2. Fuel Cap

- a) Model number(s): _____
- b) Is the cap permanently tethered? (Yes/No) _____
- c) Does the fuel cap make a vapor seal? (Yes/No) _____
 If no, innovative product Executive Order # _____
- d) 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 including description of fuel tank tether and indication of establishment.
- e) Does the fuel cap meet the durability requirements in TP-902 Section 2.1(a)? (Yes/No) _____

3. Carbon Canister and Fuel Line Installation Requirements

- a) Is the carbon canister installed per Section 2754(d)? (Yes/No) _____
- b) Are the fuel lines securely connected to prevent fuel leakage throughout the useful life of the evaporative emission control system and tested according to ANSI testing requirements per Section 2754(e)? (Yes/No) _____

4. Certification Data

	Official Design Declaration							
	1a. Component Test Model	1b. Component Test ID	1c. Test No.	1d. Type (Certification CTG or Confirmatory RTG)	1e. Test Completion Date	1f. Measured Design Value	2. or Component Executive Order Number(s)	3. Regulatory Design Requirement
a. Fuel Hose Permeation							Complete S13 if using certified components	
b. Fuel Tank Permeation (1)							Complete S12 if using certified components	
c. Carbon Canister Butane Working Capacity							Complete S14 if using certified components	
d. Other Vent Control							Complete S14 if using certified components	

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

(2) S12-S14 can be found on the page Small Off-Road Certification Database Form (Model Summary Sheet)

5. Evaporative Emission System

a) Provide an engineering description of the evaporative emission system including schematics. The description must also explain how vented tank emissions are controlled from being emitted into the atmosphere during engine operation. (Refer to CP-902, amended September 18, 2017, for requirements.)

[Empty box for engineering description and schematics]

6.

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

1. Certification Information

- a) New Testing?: (Yes/No) _____
- b) If carry over, from which model year: _____ and evaporative family: _____
 (Note: Per CP-902, no carry across data allowed)
- c) Test Fuel (e.g. LEV III gasoline): _____
- d) Test Procedure (e.g. TP-902, amended September 18, 2017): _____
- e) Alternative Test Procedures Approval Number: _____
- f) Test component identification: _____

2. Fuel Line

	Official Design Declaration							2. or Component Executive Order Number(s)	3. Regulatory Design Requirement
	1a. Test Fuel Hose ID	1a. Test Fuel Hose Model	1b. Test No.	1b. Type (Certification CTG or Confirmatory RTG)	1c. Test Completion Date	1d. Measured Design Value			
a. Fuel Hose Permeation								Complete S13 if using certified components	

Note: (1) S13 can be found on the page Small Off-Road Certification Database Form (Model Summary Sheet)

3.

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Small Off-Road Evaporative Certification Database Form

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Volume (Liters)		S7. Fuel Tank Internal Surface Area (m ²)	S8. Fuel Line Type (e.g. Single or Multi-layer)	S9. Nominal Fuel Line Length ⁽¹⁾ (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Engine Family	S12. Fuel Tank Executive Order	S13. Fuel Line Executive Order	S14. Carbon Canister or Other Venting Control Executive Order
		CA Only	49-State	50-State			Total	Nominal								

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

S16. LABELING:

- a) Evaporative emission label format approved? Yes/No _____ If yes, provide approval number: _____
- b) Sample label attached? Yes/No _____ (If yes, provide label in #S17)
- c) Will the manufacturer's full corporate name or trademark be shown on the label? Yes/No _____
- d) Will a name other than the manufacturer's full corporate name or trademark be shown on the label?
Yes/No _____ If yes, what name will be shown on the label? _____
- e) Have any changes been made to the emission label since the last approval? No ____ Yes ____
If yes, provide a brief explanation of the changes:

S17. COMPLETE EVAPORATIVE EMISSION CONTROL SYSTEM CERTIFICATION LABEL INFORMATION

Filename (if submitted in a separate document): _____

S18. WARRANTY:

- a) Evaporative emission warranty statement approved? No ____ (provide full warranty statement in #S19)
Yes ____ If yes, provide approval number: _____
- b) Have any changes been made to the emission warranty statement since the last approval? Yes/No ____
If yes, provide a brief explanation of the changes:

S19. EVAPORATIVE EMISSION WARRANTY STATEMENT (INCLUDING PARTS LIST)

Filename (if submitted in a separate document): _____

S20. FUEL TANK SOAK INFORMATION

Submit data documenting that permeation emissions from the fuel tank will not increase with further preconditioning for tanks soaked less than 140 days.

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S21. WORST-CASE DETERMINATION

Provide a description of the criteria used to determine which models in the evaporative family exhibit the highest diurnal emission rates relative to the applicable diurnal emission standards.

S22. QUALITY ASSURANCE/QUALITY CONTROL PROTOCOLS

Provide a description of any Quality Assurance/Quality Control (QA/QC) protocols used to ensure your production fuel tanks and fuel lines in the evaporative family comply with the applicable emission standards throughout their useful life.

Evaporative Component Parts Summary Sheet (> 80 cc)

S2. Model	S12a. Fuel Tank Part Number(s)	S13a. Fuel Line Part Number(s)	S14a. Carbon Canister or Other Venting Control Part Number(s)	S15. Fuel Cap Part Number(s)	S16. Engine or Equipment Unit Volume (m ³), as placed into a SHED per CP-902. (accurate to at least 3 significant figures)

S23. ADDITIONAL INFORMATION AND COMMENTS

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**Sample Worksheet
YZX Inc.
20XX Model Year
Evaporative Certification Averaging and Banking Credit Worksheet Form for
Small Off-Road Equipment with Engine Displacement > 80 cc
Certified to Diurnal Emission Standards**

Evaporative Family	California Production Volume	Applicable Diurnal Standard (g)	EMEL ⁽¹⁾ (g)	EFELD ⁽²⁾ (g)	Credits (g)

TOTAL – Model Year:
Credits expended from above balance:
Credits left over:

	Banked Credits ^{(a), (b)}	Prev. MY Deficit ^(b)
Initial Balance		
Withdrawn		
Remaining Deficit		
Deposited		

Projected Final Balance

Additional Notes:

(1) "Evaporative Model Emission Limit (EMEL)" means the diurnal emission rate declared by the manufacturer for a model within an evaporative family. The declared rate must be based on diurnal emissions test results for 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 TP-902.

(2) "Evaporative Family Emission Limit Differential (EFELD)" means the emission rate differential between the diurnal emission standard in Table 1 of section 2754(a) for 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.

(a) The banked credits may be from previous model years.

(b) Diurnal emissions and standards must be expressed to two significant digits. Diurnal emission credits (positive or negative) are to be rounded to the nearest tenth of a gram.

Issued Date (mm/dd/yyyy): _____
Revised Date (mm/dd/yyyy): _____