

**ATTACHMENT III-A
SMALL OFF-ROAD EVAPORATIVE EQUIPMENT CERTIFICATION
(Applicable to engines/equipment >80 cc engine displacement)
Certification Summary Sheet**

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

a) Manufacturer Contact Contact: Title: Company: Address: Phone No.: Fax No.: Email:	b) Production Plant Location/Contact Contact: Title: Company: Address: Phone No.: Fax No.: Email:
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- 3. Evaporative Family Name:**
4. Engine families within the evaporative family above:

- 5. Process Code:**
6. Executive Order:

Confidential

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

9. Equipment Applications:

- | | | |
|--|--|---|
| <input type="checkbox"/> Walk-Behind Lawnmower | <input type="checkbox"/> Snowblower | <input type="checkbox"/> Edger |
| <input type="checkbox"/> Riding Mower | <input type="checkbox"/> Non-Backpack Blower | <input type="checkbox"/> Brushcutter |
| <input type="checkbox"/> Tractor | <input type="checkbox"/> Backpack Blower | <input type="checkbox"/> Chainsaw |
| <input type="checkbox"/> Compressor | <input type="checkbox"/> Line Trimmer | <input type="checkbox"/> Leaf Blower/Vacuum |
| <input type="checkbox"/> Pump | <input type="checkbox"/> Pressure Washer | <input type="checkbox"/> Go-Cart |
| <input type="checkbox"/> Hedge Trimmer | <input type="checkbox"/> Tiller | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Stump Beater | <input type="checkbox"/> Ice Auger | |
| <input type="checkbox"/> Generator Set | <input type="checkbox"/> Commercial Turf | |

10. Certification Application:

- a) Performance Standards ____
 Fill out pages 40-42, 48-53
- b) Design Standards ____
 Fill out pages 40, 43-44, 48-53
- c) Small Production Volume Tank Manufacturer ____
 (i) For 2006-2009 MYs only fill out pages 40, 48 and 49 (ignore S16)
 (ii) For 2010 and later MYs fill out pages 40, 45-46, 48-53
- d) Equipment fueled by on-road vehicle/marine vessel fuel tank ____
 Fill out pages 40, 47-53 (as applicable)

FOR SYSTEMS CERTIFIED TO PERFORMANCE STANDARDS (Section 2754(a)) Small 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: _____
 j) 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. Test No.	b. Type (Certification CTG or Confirmatory RTG)	Official 24-Hour Diurnal Test Results, g/day ⁽¹⁾		
		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

Provide an engineering description of the evaporative emission system. The description must also explain 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)) Small 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) Is fuel tank exempt under Section 2766(a) (Yes/No) _____ If yes, specify fuel tank type:
 Metal _____ Coextruded Multi-layer: _____ Innovative Product Executive Order # _____
 Note: for exempt fuel tanks submission of permeation data is not required
- 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) _____
- 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)	1c. Test Completion Date	1d. Measured Design Value	2. or Component Executive Order Number(s)	3. Regulatory Design Requirement
a. Fuel Hose Permeation					Complete page 48 if using certified components	
b. Fuel Tank Permeation ⁽¹⁾					Complete page 48 if using certified components	
c. Carbon Canister Butane Working Capacity					Complete page 48 if using certified components	
d. Other Vent Control					Complete page 48 if using certified components	

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

4. Evaporative Emission System

Provide an engineering description of the evaporative emission system. The description must also explain how vented tank emissions are controlled from being emitted into the atmosphere during engine operation.

5.

Processed By: Date Processed Reviewed By: Date Reviewed:

SMALL PRODUCTION VOLUME TANK MANUFACTURER (Section 2766(b)) Small 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(s): _____
 e) Alternative Test Procedure(s) Approval Number(s) (if applicable): _____
 f) Test component identification:

Hose	Vent Control

2. Fuel Line

	Official Design Declaration					
	1a. Test No	1b. Type (Certification CTG or Confirmatory RTG)	1c. Test Completion Date	1d. Measured Design Value	2. or Component Executive Order Number(s)	3. Regulatory Design Requirement
a. Fuel Hose Permeation					Complete page 48 if using certified component	

3. Fuel Tank Venting Strategy

- a) Evaporative emission control system utilizing an actively purged carbon canister? Yes _____ No _____ (if no, complete item b below)

b)

	Official Design Declaration					
	1a. Test No	1b. Type (Certification CTG or Confirmatory RTG)	1c. Test Completion Date	1d. Measured Design Value	2. or Component Executive Order Number(s)	3. Regulatory Design Requirement
a. Carbon Canister Butane Working Capacity					Complete page 48 if using certified components	
b. Other Vent Control					Complete page 48 if using certified components	

4. 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 in item #5

5. Fuel cap's features

Provide description of the cap's features.

6.

Processed By: Date Processed Reviewed By: Date Reviewed:

**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?: _____ 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)	1c. Test Completion Date	1d. Measured Design Value	2. or Component Executive Order Number(s)	3. Regulatory Design Requirement
a. Fuel Hose Permeation					Complete page 48 if using certified components	

3.

Processed By: Date Processed Reviewed By: Date Reviewed:

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

MODEL SUMMARY

S1. Worst Case (Check One)	S2. Engine or Equipment Model	S3. Sales Codes (check all appropriate)			S4. Engine Class (I or II)	S5. Fuel System (FI or CARB)	S6. Fuel Tank Vol. (Liters)	S7. Fuel Tank Internal Surface Area (m ²)	S8. Fuel Line Type	S9. Nominal Fuel Line Length ⁽¹⁾ (mm)	S10. Fuel Line Inside Diameter (mm)	S11. Exhaust 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											

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

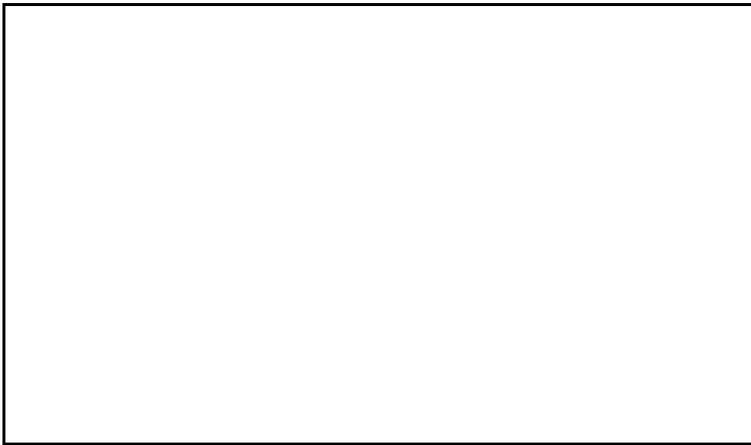
S15. LABELING:

Evaporative emission label format approved? No ___ Yes ___ If yes, reference approval: _____
Sample label attached? No ___ Yes (place label in #S17) ___

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

A large, empty rectangular box with a thin black border, occupying most of the page. It is intended for the user to provide the required 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 ($30^{\circ}\text{C} \pm 10^{\circ}\text{C}$) 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 ($40^{\circ}\text{C} \pm 2^{\circ}\text{C}$) 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

Evaporative Component Parts Summary Sheet (> 80 cc)

MODEL SUMMARY

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

**Attachment III-B
YZX Inc.
200X Model Year
Evaporative Certification Averaging and Banking Credit Worksheet Form
for
Small Off-Road Equipment with Engine Displacement > 80 cc
Certified to Performance Standards – Section 2745(a)**

Engine/Evaporative Family	California Sales	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) EMEL (evaporative model emission limit) is the diurnal emissions level declared by the manufacturer and must be based on diurnal test results for a worst case model of engine or equipment within the evaporative family.
(2) EFELD (evaporative family emission limit differential) is the emission level differential between the applicable diurnal standard for worst case model 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) Withdrawn credits must be used at a rate of 1.25 grams to 1 gram for emission deficit. The source of withdrawn credits may be from the banked credits from previous model year or the projected credits for the current year. 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): _____