

Model Year:
Manufacturer:
Zero-Emission Generator Family:

ATTACHMENT 4
2023 and Later Model Year Small Off-Road
Zero-Emission Generator Family Information Form

Use of this form is voluntary

The information provided may be released (1) to the public upon request, except trade secrets which are not emission data or other information which is exempt from disclosure or the disclosure of which is prohibited by law, and (2) to the federal Environmental Protection Agency, which protects trade secrets as provided in Section 114(c) of the Clean Air Act and amendments thereto (42 USC 7401 et seq.) and in federal regulations. 17 Cal. Code Regs, tit. 17, § 91010.

1. Manufacturer Name:
2. U.S. EPA-Assigned Manufacturer Code:
3. Contact(s): Contact Name, Title, Company Name, Address, Phone, and Email.
 - a. Certification Contact(s):

b. Production Plant Location(s) and Contact(s):

4. Model Year:

5. Process code: New Submission
 Running Change
 Field Fix

6. Zero-emission Generator Family Name (Use ZEG in Position 7-9, i.e., AA8XS.ZEG4TI):

7. Are you carrying over zero-emission generator durability test data from a previously certified zero-emission generator family? (Yes/No)

- a. If carry over, which model year was the original certification zero-emission generator durability test data submitted to CARB: _____
and zero-emission generator family name: _____
- b. Is the zero-emission generator family being certified identical to the zero-emission generator family from which test data that is being carried over? (Yes/No)

8. Zero-emission generator product level type as described in Table 1 of CCR 2408.2 and Table 1 of CCR 2754.3 (select only one level type):

- Level 1
 Level 2
 Level 3
 Level 4

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9. Projected Sales (units): 50 State: _____ California: _____
a. Sales Codes (check all applicable): Calif. Only <input type="checkbox"/> 50-State <input type="checkbox"/>
b. Estimated Production Period: Start Date: _____ End Date: _____
c. Estimated Introduction Into Commerce Date: _____

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10. Do all zero-emission generator models meet the minimum requirements of CCR 2408.2(b)(4)(D)? (Yes/No) _____

- a. Do all zero-emission generator models have a device capable of providing 120-Volt nominal alternating current power as well as at least one NEMA 5-15 receptacle? (Yes/No) _____
- b. Do all zero-emission generator models contain a zero-emission power generation device, an energy storage device, or any combination of both of these devices? (Yes/No) _____
- c. Do all zero-emission generator models meet the minimum requirements according to Table 1 of CCR 2408.2? (Yes/No) _____
- d. In compliance with CCR 2408.2(b)(4)(D), was durability testing performed in an equipment configuration that is representative of actual operation of the equipment by the ultimate purchaser (e.g., using standard battery package cycling, non-azimuth tracking solar array, commercially available hydrogen (H₂) fuel sources)? (Yes/No) _____
- e. Was an electrical load bank used to apply a load to the zero-emission generator for testing to demonstrate compliance with the requirements of CCR 2408.2(b)(4)(D)? (Yes/No) _____

11. Energy Generation and Storage Configuration

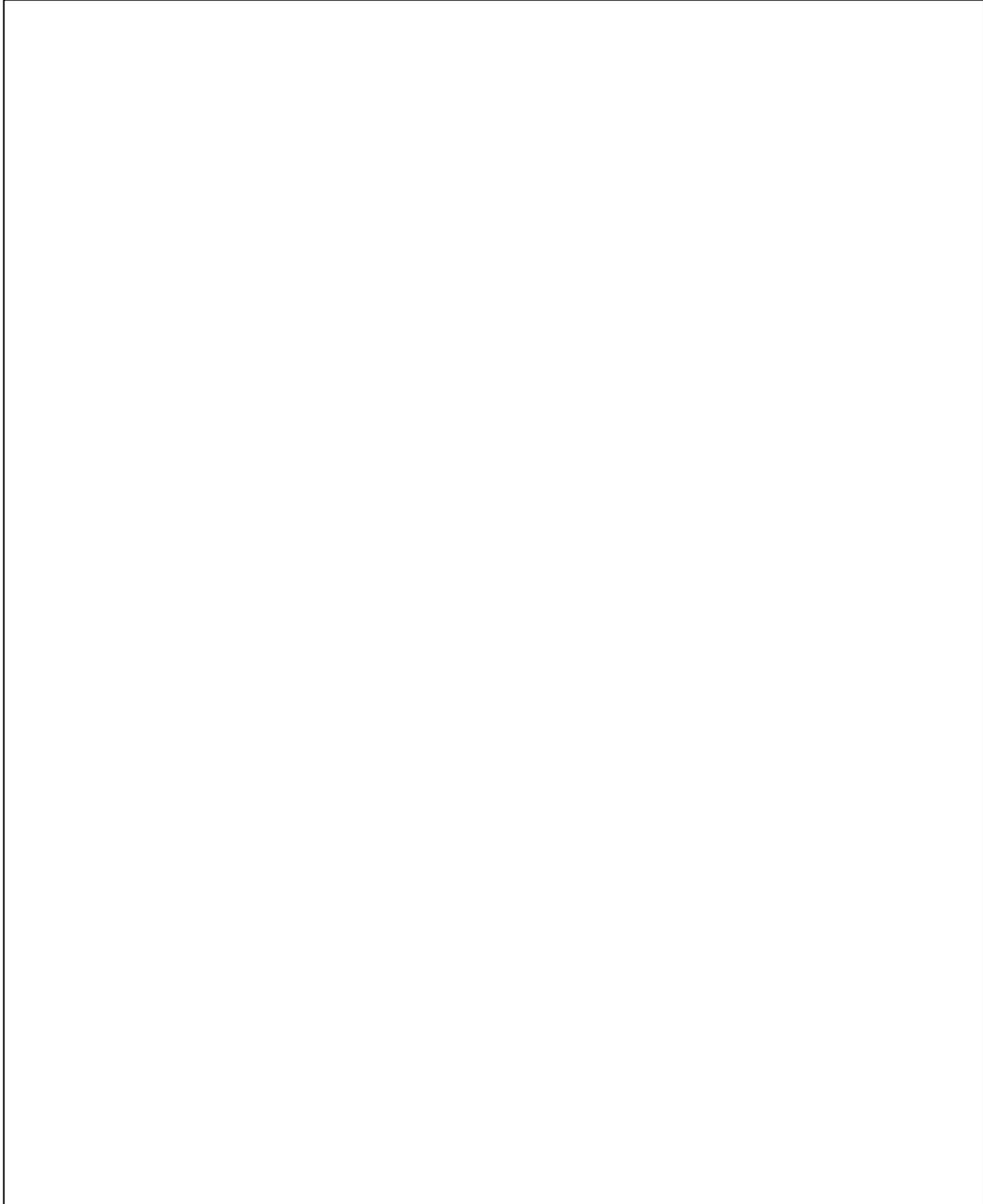
- a. Energy Storage (Check all applicable):
____ Electro-chemical Battery
 Battery Type(s): ____ Lithium Ion
 ____ Other battery type (specify):
____ Fuel Cell

____ Other Energy Source (provide specifications):
- b. Additional Energy Input:
____ Solar
____ Wind
____ Other (specify):
- c. Battery Specifications (if equipped)
 - i. Number of batteries:
 - ii. Supplied Battery Capacity (Wh):
 - iii. Battery Specific Energy (Wh / kg):
 - iv. Total Battery Weight (kg):
 - v. Total Battery Volume (L):
 - vi. Total Battery Voltage (V):
- d. Charger(s) (if applicable): ____ Conductive
 ____ Inductive
 ____ Other (specify):

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12. Provide a description of the operational sequence over one deployment of the zero-emission generator according to Section 2408.2(b)(4)(F). The operational sequence should include, as applicable, the discharge profile, power production profile, and the storage profile of any available storage.



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Small Off-Road Zero-Emission Generator
Durability Test Information Form

13. Official Zero-Emission Generator Durability Test Results

a. Test Location(s) and Contact(s):

b. Test Zero-Emission Generator Model Name:

c. Test Zero-Emission Generator Identification Number:

d. Zero-Emission Generator Durability Period: ___ 500 Hours
 ___ Other (specify):

e. Start Test Date:

f. End Test Date:

g. Test Cycle Used: ___ Five-Mode Duty Cycle (with no idle mode)
 ___ Approved Alternate Test Procedure, specify approval number:
 ___ Approved Special Test Procedure, specify approval number:
 ___ Other (specify and describe):

h. Special Test Equipment? (Yes/No) ___
 If yes, specify and describe:

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Applicable to 2023 – 2026 Model Year

Zero-Emission Generator Exhaust Credit Calculation Data Sheet

15. Zero-Emission Generator Credit ABT Participation? (Yes/No) _____

a. If yes, select exhaust, evaporative or both:

_____ Exhaust (Fill out #16)

_____ Evaporative (Fill out #17)

b. Did the zero-emission generator manufacturer provide the ultimate purchaser with all equipment and accessories necessary to meet the requirements according to Table 1 of 2408.2, including any energy storage devices such as batteries (except zero-emission generators that use fuel such as compressed H₂, the fuel is not required to be provided as part of the package provided to an ultimate purchaser)? (Yes/No) _____

16. Projected Zero-Emission Generator Exhaust Credits

a. Do all zero-emission generator models meet minimum requirements for zero-emission generator credit eligibility according to Section 2408.2? (Yes/No) _____

b. HC+NO_x zero-emission generator credits are to be calculated according to the following equation and rounded to the nearest gram. (See Section 2408.2(f) for more details on credit calculation.)

Zero-emission generator exhaust credits = Credit eligibility as specified in Table 1 of Section 2408.2(f) × Sales

Where:

Sales = eligible sales as defined in section 2401. Annual sales projections are used to project credit availability for initial certification. Actual sales volume is used in determining actual credits for end-of-year compliance determination.

Zero-Emission Generator Level (Level 1, 2, 3, or 4, as specified in Table 1 of CCR 2408.2)	Projected CA Sales (units)	Credit Eligibility as specified in Table 1 of CCR 2408.2 (g HC+NO _x)	Zero-Emission Generator Exhaust Credits (g HC+NO _x)

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Zero-Emission Generator Evaporative Credit Calculation Data Sheet

17. Projected Zero-Emission Generator Evaporative Credits

- a. Do all zero-emission generator models meet minimum requirements for zero-emission generator credit eligibility according to Sections 2408.2 and 2754.3? (Yes/No) _____
- b. Zero-emission generator evaporative credits are to be calculated according to the following equation and rounded to the nearest gram. Consistent units are to be used throughout the equation. (See Section 2754.3(f) for more details on credit calculation.)

Zero-emission generator evaporative credits = Credit eligibility as specified in Table 1 of CCR 2754.3 × Sales

Where:

Sales must be the same as calculated in certification under section 2408.2.

Zero-Emission Generator Level (Level 1, 2, 3, or 4, as specified in Table 1 of CCR 2754.3)	Projected CA Sales (units)	Credit Eligibility as specified in Table 1 of CCR 2754.3 (g organic material hydrocarbon equivalent·day ⁻¹ or g organic material hydrocarbon equivalent·test ¹)	Zero-Emission Generator Evaporative Credits (g organic material hydrocarbon equivalent·day ⁻¹ or g organic material hydrocarbon equivalent·test ¹)

18. Additional comments about Zero-Emission Generator credits:

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**Small Off-Road Zero Emission Generator
Certification Label and Warranty Form**

20. Emission Label:

- a) Emission label format previously approved? (Yes/No) _____
If yes, provide approval number: _____
- b) Sample label attached? (Yes/No) _____ (If yes, provide label in #20f below)
- 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?
(Yes/No) _____
If yes, provide an explanation of the changes:
- f) Emission Label Information:

Suggested emission label template:

IMPORTANT EMISSIONS INFORMATION
ABC Company

THIS IS A LEVEL [1, 2, 3, or 4] CALIFORNIA-CERTIFIED
ZERO-EMISSION GENERATOR.

EF: PABCS.ZEG123
DOM: MM/YYYY Durability Period: 500 Hours

NOTES:

- 1. DOM will be in the format MM/YYYY
(Unless it is an alternate location approved under 2404(c)(5)(C) or 2404(j))
- 2. Label location (include picture):

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21. Emission Warranty:

- a) Emission warranty format previously approved? (Yes/No) _____
If yes, specify approval number:
- b) Have any changes been made since the last approval? (Yes/No) _____
If yes, provide an explanation of the changes:
- c) Warranty Statement provided to ultimate purchaser:

Suggested Warranty Statement Template per Sections 2406 (verbatim language, as applicable) and 2405(h):

**California Emission Control Warranty Statement
Your Warranty Rights and Obligations**

The California Air Resources Board (and manufacturer's name, optional) are pleased to explain the emission control system warranty on your (year) zero-emission generator. In California, new zero-emission generator must be designed, built and equipped to meet the State's stringent anti-smog standards. (Manufacturer's name) must warrant the emission control system on your zero-emission generator for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your zero-emission generator.

Your emission control system may include parts such as the battery, battery charger, and other energy storage device or emission-related assemblies.

Where a warrantable condition exists, (manufacturer's name) will repair your zero-emission generator at no cost to you including diagnosis, parts and labor.

Manufacturer's Warranty Coverage:

The zero-emission generator is warranted for two years. If any emission-related part on your zero-emission generator is defective, the part will be repaired or replaced by (manufacturer's name).

Owner's Warranty Responsibilities:

- As the zero-emission generator owner, you are responsible for the performance of the required maintenance listed in your owner's manual. (Manufacturer's name) recommends that you retain all receipts covering maintenance on your zero-emission generator, but (manufacturer's name) cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.
- As the zero-emission generator owner, you should however be aware that (manufacturer's name) may deny you warranty coverage if your zero-emission generator or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.
- You are responsible for presenting your zero-emission generator to a (manufacturer's name) distribution center as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact (Insert chosen manufacturer's contact) at 1-XXX-XXX-XXXX.

Defects Warranty Requirements:

Please refer to Section 2405 (h) and include defects warranty language.

Zero-emission generator warranty parts list:

Battery, if applicable	Wind Turbine, if applicable
Battery Charger, if applicable	Solar Array, if applicable
Fuel Cell, if applicable	Other, please specify:

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Additional Comments

22. Additional Comments:

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