Spark Ignition Marine Vessel Evaporative Certification

For Evaporative Component Manufacturers

April 28, 2010

Evaporative Component Certification

- All evaporative components (fuel tanks, fuel hoses and carbon canisters) must be certified by ARB
- Evaporative component manufacturers apply for certification and receive an Executive Order (EO)
- All evaporative components must be tested following ARB adopted test procedures

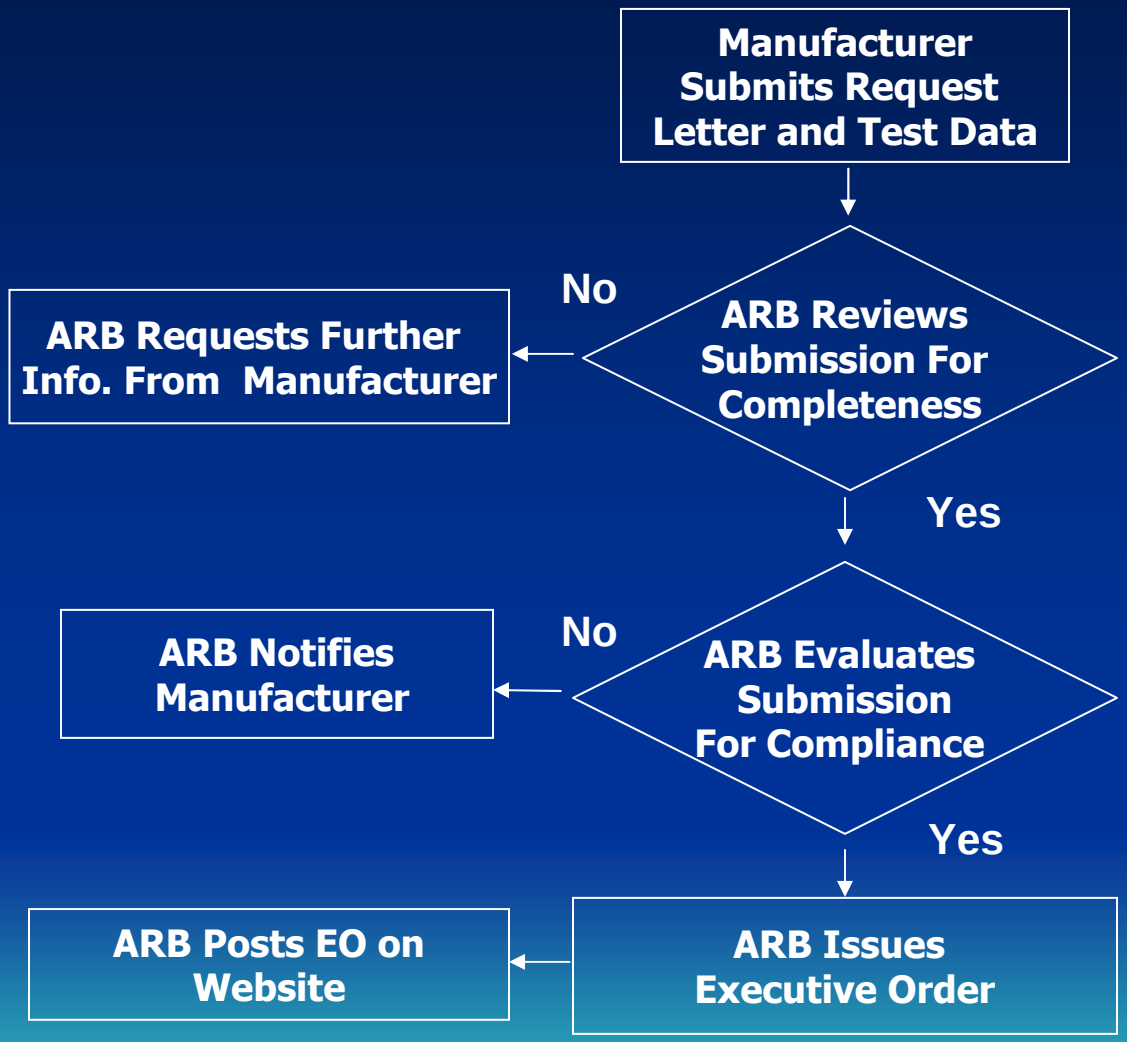
Evaporative Component Labeling

- ARB may approve alternate labeling for evaporative components
  - This may include EPA labeling

Major Evaporative Component Certification Steps

1. Test five components following ARB adopted test procedures
   - When applicable, data may be accepted from a previous test such as U.S. EPA certification data or OMT certification data
2. Submit a certification request letter, along with all test data to the Monitoring and Laboratory Division Chief
3. Receive Executive Order (EO) from ARB
4. Produce and label each evaporative component according to specification described in the EO request
5. Do Not introduce evaporative components into commerce in CA until EO received

Evaporative Component Certification Process Flowchart



Up to 30 Days

Up to 90 Days

ARB Contacts

- Contacts for Evaporative Component certification:

Jim Watson, Manager

Evaporative Control, Engineering and Regulatory Development Section

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Rebecca Fancher

Evaporative Control, Engineering and Regulatory Development Section

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Spark Ignition Marine Vessel Evaporative Certification

For Evaporative System Builders

April 28, 2010

Marine Vessel Evaporative Certification

- "Evaporative System Builder" applies for certification and receives Executive Order (EO)
- Must certify every year
- Two certification methods:
  - Design-Based
  - Performance-Based

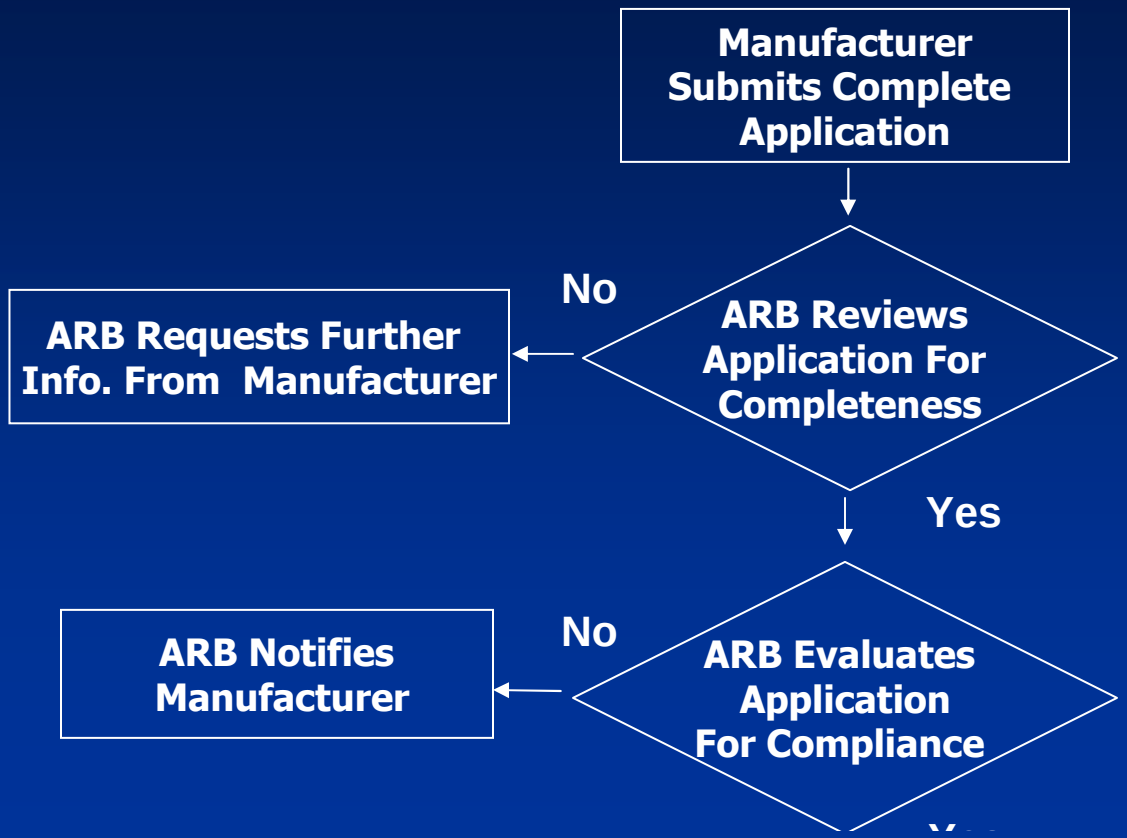
New Manufacturer Getting Started

- Register with U.S. EPA as a manufacturer to receive 3-digit code: [http://www.epa.gov/otaq/verify/mfr-code.htm]
- Submit to ARB via regular mail a certification contact authorization letter.
  - Name, address, e-mail, MFR's name, EPA-assigned MFR's. code
- ARB assigns
  - ARB manufacturer code to enable access to Document Management System (DMS)
  - Engineer to assist in certification process

Major Marine Vessel Certification Steps

1. (New Mfrs.) Register with U.S. EPA to receive manufacturer code.
2. Group vessel models into evaporative families.
3. Create unique Evaporative Family code for each family using the same naming convention as EPA
4. Demonstrate compliance with either the Design or Performance requirements
5. Submit applications to ARB via the Internet (DMS).
6. Receive Executive Order (EO) from ARB.
7. Produce and label each marine vessel according to specifications described in applications.
8. Do not introduce marine vessels into commerce in CA until EO received.
9. Submit Running Changes if vessels, models, or components change during the model year

Marine Vessel Certification Process Flowchart



Up to 90 Days

Design-Based Application Example Page 1

Date

Ms. Annette Hebert, Chief
Mobile Source Operations Division
Air Resources Board
9480 Telstar Avenue, Suite 4
El Monte, California 91734-2301

Dear Ms. Hebert:

XYZ Company hereby submits the certification application(s) for the following Spark Ignited Marine Vessel evaporative families.

Evaporative Families
1) AXYZ.CM
2) AXYZ.CP

XYZ Company makes the following statements regarding the 20XX model year certification of its spark-ignition marine vessels.

1) Conformance with the general standards and requirements as required in Title 13, Chapter 5, Article 14, sections 2850-2869 of the California Code of Regulations.

2) Conformance with the Deck Fill Plate Compatibility Standard as required in 13CCR, Section 2854(1).

3) Conformance with the California Fuel Compatibility Standard as required in 13CCR, Section 2854(2).

4) Conformance with the requirements that 2014 and later evaporative families with engines greater than 30 kW are equipped with fuel injection or equivalent.

5) Conformance with the vessel labeling and defects warranty requirements as required in 13CCR, Sections 2859, 2860, 2861, and 2862.

6) Production vessels shall be in all material respects the same as those for which certification is granted.

We anticipate that the start date of production for the above evaporative families will be about *(date)* and request that the Executive Orders be issued by *(date)*.

If you have any questions, please contact me at xxx-xxx-xxxx.

Sincerely,

Name
Title

Design-Based Application Example Page 2

SPARK IGNITED MARINE VESSEL EVAPORATIVE CERTIFICATION
(DESIGN-BASED)
Certification Summary Sheet

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

Manufacturer Contact	Production Plant Location/Contact
Contact:	Contact:
Title:	Title:
Company:	Company:
Address:	Address:
City, State, Zip	City, State, Zip
Phone No.:	Phone No.:
Fax No.:	Fax No.:
Email:	Email:

3. Evaporative Family Name:
4. Application Type: (New or Running Change)

5. Confidential Information
a) Projected California sales(units): _____ b) Projected 50-State Sales (units): _____
c) Introduction into commerce date: _____

6. Engine Family (2014 Model Year and later)
All marine vessel models with engines greater than 30 kW must be equipped with engines that are fuel injected or that meet the equivalent fuel injection performance test. Do the engines meet this requirement? (yes/no): _____

7. Vessel Type:

Less than 30 kW	Greater than 30 kW
___ Personal Watercraft ___ Outboard ___ Inboard ___ Sterndrive ___ Jetboat ___ Other: _____	___ Personal Watercraft ___ Outboard ___ Inboard ___ Sterndrive ___ Jetboat ___ Other: _____
	___ Trailerable (≤26ft) ___ Nontrailerable (>26ft)

Processed By: Date Processed Reviewed By: Date Reviewed:

Design-Based Application Example Page 3

SPARK IGNITED MARINE VESSEL EVAPORATIVE CERTIFICATION
(DESIGN-BASED)

MODEL SUMMARY

8. Marine Vessel or Boat Model	9. Sales Codes		10. Fuel Tank Vol. (Liters)	11. Fuel Tank Material	12. Fuel Line Type	13. Fuel Tank Executive Order	14. Fuel Line Executive Order	15. Carbon Canister Executive Order	16. Venting System Executive Order (if applicable)
	CA Only	50-State							
Sea Ray 210 Select	X		151	HDPE	Multi-Layer	C-U-028-939	C-U-493-92	C-U-39-299	N/A
Sea Ray 230 Sundeck		X	208	Nylon	Multi-Layer	C-U-028-900	C-U-493-92	C-U-39-299	N/A
Sea Ray 255 Sundancer		X	261	HDPE	Multi-Layer	C-U-028-939	C-U-493-92	N/A	C-U-01-005

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ADDITIONAL MODEL INFORMATION (OPTIONAL)

OPTIONAL MODEL SUMMARY

17. Marine Vessel or Boat Model	18. Nominal Fuel Line Length (mm)	19. Fuel Line Inside Diameter (mm)	20. Vessel Length (ft)	21. Vessel Type	22. Engine Families	23. Auxiliary Engine Engine Families (if applicable)	24. Comments
Sea Ray 210 Select	400	15	21	Sport Boat	AM9XM05.0ECT	N/A	
Sea Ray 230 Sundeck	600	15	23	Sport Boat	AM9XM05.7ECT	N/A	
Sea Ray 255 Sundancer	1000	15	26	Sport Cruiser	AM9XM06.2ECT	AM9XM.7472G0	Kicker motor pre-installed

Design-Based Application Example Page 5

25. Is the vessel's fuel system designed to support an auxiliary engine?(yes/no)_____ If yes, describe fuel system for any auxiliary engines and how the requirements in section 2853 or 2854 were met:

26. Labeling

a) Evaporative emission label format approved?(yes/no)_____ If yes, reference approval # :_____

b) Certification Label information:

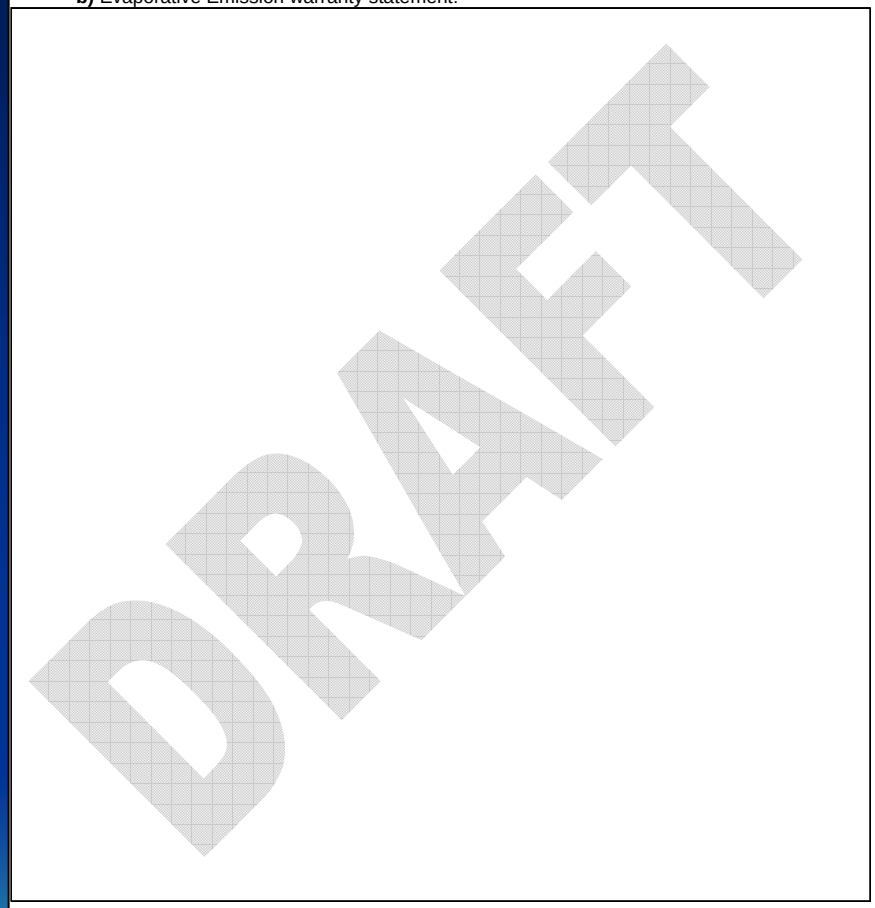
28. Comments:

Design-Based Application Example Page 6

27. Warranty

a) Evaporative Emission warranty approved?(yes/no)_____ If yes, reference approval # :_____

b) Evaporative Emission warranty statement:



ARB Contacts

- Contacts for Spark Ignition Marine Vessel certification:

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Kevin Curley

Off-Road Spark Ignition Engine Certification Section

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