

**State of California
AIR RESOURCES BOARD**

EXECUTIVE ORDER RM-17-012A

Spark-Ignition Marine Watercraft Evaporative Emissions System Components

**SeaStar Solutions
Fuel Tank**

WHEREAS, pursuant to California Health and Safety Code, sections 39600, 39601, and 43013, the California Air Resources Board (CARB) has established a certification process for evaporative emissions system components designed to control gasoline emissions from spark-ignition marine watercraft (SIMW), as described in California Code of Regulations, title 13, section 2856;

WHEREAS, pursuant to California Health and Safety Code, section 43013, CARB has established criteria and test procedures for determining the compliance of evaporative emissions system components with the design requirements in Cal. Code Regs., tit. 13, §2855;

WHEREAS, pursuant to Cal. Code Regs., tit. 13, § 2856, CARB Executive Officer may issue an executive order (EO) if he or she determines that SIMW evaporative emissions system components conform to the applicable performance requirements set forth in Cal. Code Regs., tit. 13, § 2855; and

WHEREAS, pursuant to California Health and Safety Code, sections 39515 and 39516, CARB Executive Officer issued EO G-17-006 delegating to the Chief of CARB Monitoring and Laboratory Division (MLD) the authority to certify SIMW evaporative system components.

NOW, THEREFORE, I, Catherine Dunwoody, Chief of MLD, find that the SeaStar Solutions fuel tank representative model, FXV707 using RotoLoPerm® technology, conforms with the 1.4 grams/meter²/day permeation performance requirements set forth in Cal. Code Regs., tit. 13, § 2855, when tested at a constant temperature of 40°C pursuant to test procedure TP-1504 using an approved test fuel of California Phase III Reformulated fuel.

IT IS ORDERED AND RESOLVED that the SeaStar Solutions fuel tank models listed in Table 1 with 0.040 in +/- 0.008 in minimum ethylene vinyl alcohol (EVOH) barrier thickness are certified for use in SIMW introduced into commerce in California.

Table 1

Models and Specifications for SeaStar Solutions fuel tank: RotoLoPerm®			
Component Type Model Number	Minimum EVOH Barrier Thickness, (in)	Minimum Volume/Internal Surface Area Ratio (in ³ / in ²)	Test Emission Rate (grams/meter ² /day)
FXV707*	0.040 +/- 0.008	1.86	1.0 at 40°C

* Manufacturer-designated representative for the fuel tank family FTxxxxxxBD

IT IS FURTHER ORDERED that SeaStar Solutions shall provide a warranty to watercraft manufacturers purchasing any of the SeaStar Solutions fuel tank models listed in Table 1. The warranty must conform to the requirements of Cal. Code Regs., tit. 13, § 2861.

IT IS FURTHER ORDERED that the certified SeaStar Solutions fuel tank models listed in Table 1 shall be installed in accordance with the manufacturer's installation and use instructions for the SeaStar Solutions fuel tank models. A copy of this EO and fuel tank installation and use instructions shall be provided to original watercraft manufacturers purchasing SeaStar Solutions fuel tank models listed in Table 1 for installation on spark-ignition marine engines and watercraft introduced into commerce in California.


IT IS FURTHER ORDERED that the SeaStar Solutions fuel tank models listed in Table 1 and introduced into commerce in California shall be clearly identified by a permanent identification that includes model number FTxxxxxxBD and EO number.

IT IS FURTHER ORDERED that any alteration to the SeaStar Solutions fuel tank models listed in Table 1 and certified hereby is prohibited. Any alteration or modification of the designs approved by this EO will require the manufacturer to apply for a new EO.

IT IS FURTHER ORDERED that the SeaStar Solutions fuel tank models as listed in Table 1 shall be compatible with fuels in common use in California at the time of certification, and any modifications to comply with future California fuel requirements shall be approved in writing by the Executive Officer or Executive Officer's delegate.

IT IS FURTHER ORDERED that the component certification of the SeaStar Solutions fuel tank models listed in Table 1 can be referenced in certification applications for spark-ignition marine engines and watercraft that use spark-ignition marine engines unless the Executive Officer finds that the SeaStar Solutions fuel tank models listed in Table 1 no longer meet the performance requirements set forth in Cal. Code Regs., tit. 13, § 2855, when tested pursuant to Cal. Code Regs., tit. 13, § 2864.

Executed at Sacramento, California, this 20th day of September 2018.


Catherine Dunwoody, Chief
Monitoring and Laboratory Division

*EO RM-17-012A amends EO RM-17-012 by changing the company's name from Inca Molded Products to SeaStar Solutions. The manufacturer has also specified that the naming convention shall change from FXVxxxxx to FTxxxxxxBD.