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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-W-1-21 Relating to Certification of New Spark-Ignition Marine Engines

MERCURY MARINE

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, and 43104 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following new spark-ignition marine engine and exhaust emission control system produced by the manufacturer are certified as described below.

Model Year: 2002

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Fuel Type: Gasoline Engine Type: 4-Stroke

Level of Cleanliness: Ultra Low Emission ("Three Stars")

Equipment Application: Outboard

Engine Family: 2M9XM.7472GE

Displacement: 747 cc

Exhaust Emission Control Systems and Special Features:

Multiport Fuel Injection

Engine models are listed on the attachment. Production engines shall be in all material respects the same as those for which certification is granted.

BE IT FURTHER RESOLVED: That the manufacturer has opted to certify, and has certified the listed engines to the hydrocarbons plus oxides of nitrogen (HC+NOx) exhaust emission standard described below, expressed in grams per kilowatt-hour (g/kW-hr) under Section 2442(b) of Title 13, California Code of Regulations (13 CCR).

HC + NOx Certification Level

18.05 Certification Level

Compliance with the standard under 13 CCR Section 2442(b) shall be determined based on the sales-weighted average power of the engine family based on engines produced in this family for sale in California. This engine family shall not be used to determine compliance through corporate averaging.

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with the following California emission regulations and requirements. Engines certified under this Executive Order shall conform to all applicable California emission regulations and requirements:

- All applicable requirements in the "California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines"
- Emission Control Labeling and Consumer/Environmental Labeling (13 CCR Sections 2443.1, 2443.2 and 2443.3)
- Emission Control System Warranty (13 CCR Sections 2445.1 and 2445.2)
- Closed Crankcases (Part 1, Section 18.(h) of the "California Exhaust Emission Standards and Test Procedures for 2001 Model Year and Later Spark-Ignition Marine Engines")
- Quarterly reports of engines produced in this family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

Executed at El Monte, California this 19th day of April 2001

R. B. Summerfield, Chief

Mobile Source Operations Division

Model Year:	2002				
Manufacture	Name:	Mercury	Marine		
Engine Family	y:2M9	XM.7472	GE		•
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S10. MODEL SUMMARY (Use asterisk to identify worst-case engine model used for certification testing)

S11 S12 Model Engine Designation Code		S13 Sales Codes (Check all appropriate codes)		S14 Eng. Disp. (cc)	S15 Rated Power	S16 Rated Speed	S17 Peak Torque	S18 Peak Torque	
		Calif. Only	49 State	50- State		(ķW)	(RPM)	(N-m)	Speed (RPM)
1A30311ZD		•		Х	747	22.4	5750	104	3000
7A30311LD				X	747	22.4	5750	104	3000
1A30312ZD				X	747	22.4	5750	104	3000
7A30312LD				X	747	22.4	5750	104	3000
1A30412ZD				X	747	22.4	5750	104	3000
7A30412LD				X	747	22.4	5750	104	3000
J1A40302ZD				X	747	29.8	5750	114	4500
7A40302LD				X	747	29.8	5750	114	4500
1A40311ZD				X	747	29.8	5750	114	4500
7A40311LD				X	747	29.8	5750	114	4500
1A40312ZD				X	747	29.8	5750	114	4500
7A40312LD				X	747	29.8	5750	114	4500
1A40411ZD				X	747	29.8	5750	114	4500
7A40411LD				X	747	29.8	5750	114	4500
1A40412ZD				X	747	29.8	5750	114	4500
7A40412LD				X	747	29.8	5750	114	4500
1A40412ZN				X	747	29.8	5750	114	4500
1A40452ZD				X	747	29.8	5750	114	4500
7A40452LD				X	747	29.8	5750	114	4500
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