(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-W-1-5 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 is certified as described below.

Model Year: 2001

Fuel Type: Gasoline

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

Equipment Application: Outboard

Engine Family: 1M9XM01.62G0

Displacement: 1596 cc

Exhaust Emission Control Systems and Special Features: EM

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 hydrocarbon plus oxides of nitrogen (HC+NOx) exhaust emission standard described below, expressed in grams per kilowatt-hr (g/kW-hr) under Section 2442(b) of Title 13, California Code of Regulations (13 CCR).

HC + NOx	Certification
(estimated) Standard	<u>Lev</u> el
16.89	15.27

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 (Title 13, California Code of Regulations, Sections 2443.1, 2443.2 and 2443.3);
- Emission Control System Warranty (Title 13, California Code of Regulations, 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"); and
- 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.

BE IT FURTHER RESOLVED: That the certification to Section 2443.3, Title 13, California Regulations described herein is conditioned on approval of that section by California's Office of Administrative Law pursuant to Government Code Section 11349.4.

Executed at El Monte, California this

 $^{\prime}$ day of May 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

AHachment

Page 1

Model Year: 2001

Manufacturer Name: Mercury Marine Issued:

Engine Family: 1M9XM01.62G0

E.O.#: U-[\lambda-1-5]

			·	SI Mar	inc Engir	SI Marine Engine Model Summary Form	ımmar) er:	Form			
45.		46.		47.	48.	49.	50.	51.	52.	53.	54.
Model Designation	Calif.	Sales Codes (Check-all-apprapriate alif. 49- 50 mly State Sta	s priate – 50- State	Disp. (cc)	Borc/Strok c (mm)	Basic Iguition Tyming (deg. @ idle)	Power (kW)	Rated Speed (RPM)	Rated Torque (N-m)	Forque Speed (RPM)	ECS
1F90422YY			×	1596	79/81.4	SATDC	67,14	5500	27.4	4500	Em
1F75412YD			×	9651	79/81.4	5 ATDC	55,95	5000	267	3500	EM
:F75412YN			×	1596	79/81.4	5 ATDC	55.95	2000	267	3500	Z Z
1F90412YD			×	1596	79/81.4	5 ATDC	67.14	5500	274	4500	CZ
1F90412YN			×	9651	79/81.4	5 ATDC	67.14	5590	274	4500	ET
7F75412KD			×	1596	79/81.4	5 ATDC	55.95	5000	267	3500	Q.
7F90412KD			X	1596	79/81.4	SATDC	67.14	5500	274	4500	EM
7F90422KY			Х	1596	79/81.4	5 A T D C	67.14	5500	274	4500	EM
		. —									