California Environmental Protection Agency AIR RESOURCES BOARD	MERCURY MARINE	EXECUTIVE ORDER U-W-001-0163-1 New Spark-Ignition Marine Engines

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

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following new spark-ignition marine engine and emission control systems (ECS) produced by the manufacturer are certified as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	FUEL TYPE	DISPLACEMENT (cc)	LEVEL OF CLEANLINESS
2007	7M9XM01.73G0	Gasoline	1732	Very Low Emission ("Two Stars")

EQUIPMENT APPLICATION	ECS & SPECIAL FEATURES	ENGINE TYPE
Outboard	Multiport Fuel Injection, Supercharger	4-Stroke

ENGINE MODELS (rated power in kilowatts, kW)	See Attachment

BE IT ORDERED AND RESOLVED: That the listed engines are certified to a hydrocarbon plus oxides of nitrogen (HC+NOx) family emission limit (FEL) in accordance with a plan submitted by the manufacturer to, and approved by, the Executive Officer for compliance with the exhaust emission standard on a corporate average basis pursuant to Title 13, California Code of Regulations, (13 CCR) Sections 2442(a)(1) and (a)(2). The FEL shall be the applicable emission standard for this engine family for determining compliance of any engine within this engine family pursuant to 13 CCR Sections 2444.1 (in-use compliance) and 2446 (audit testing). The FEL and certification emission level in grams per kilowatt-hour (g/kW-hr) for this engine family are as follows. Engines in this engine family shall have closed crankcases in conformance with Part I, Section 18(h) of the "California Exhaust Emission Standards and Test Procedures for 2001 Model-Year and Later Spark-Ignition Marine Engines."

	FAMILY EMISSION LIMIT (g/kW-hr)	CERTIFICATION LEVEL (g/kW-hr)
HC+NOx	25.00	15.44

Compliance with the emission standard on a corporate average basis shall be determined pursuant to 13 CCR Sections 2442(a)(2)(D) and 2442(a)(2)(F) based on the sales-weighted average power of all engines produced for sale in California that are included in the approved corporate average compliance plan for the model-year.

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 13 CCR Sections 2443.1, 2443.2 and 2443.3 (emission control, consumer, and environmental labels), and Sections 2445.1 and 2445.2 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter pursuant to 13 CCR Section 2442(a)(2)(B).

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order U-W-001-0163 dated November 3, 2006.

Executed at El Monte, California on this 7th day of September 2007.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 1 of 3

Model Year: ____2007_____ **Page: _____**
Manufacturer Name: ___Mercury Marine_____ **Issued: 11/3/06**
Engine Family: _____7M9XM01.73G0_____ **Revised: 8/30/07**
SI MARINE ENGINE SUPPLEMENTAL INFORMATION. **E.O.#: U-W-001-0163-1**

S10. MODEL SUMMARY (Use asterisk to identify worst-case engine model used for certification testing)

S11 Model Designation	S12 Engine Code	S13 Sales Codes (Check all appropriate codes)			S14 Eng. Disp. (cc)	S15 Rated Power (kW)	S16 Rated Speed (RPM)	S17 Peak Torque (N-m)	S18 Peak Torque Speed (RPM)
		Calif. Only	49 State	50-State					
7135V13ZD				X	1732	100.71	5800	216.93	3400
7135V23ZD				X	1732	100.71	5800	216.93	3400
7150V13ZD				X	1732	119.9	6100	242.69	4000
7150V23ZD				X	1732	119.9	6100	242.69	4000
7150V24ZD				X	1732	119.9	6100	242.69	4000
7175V13ZD				X	1732	130.55	6100	242.69	4000
7175V23ZD				X	1732	130.55	6100	242.69	4000
1135V13HD				X	1732	100.71	5800	216.93	3400
1135V23HD				X	1732	100.71	5800	216.93	3400
1135V24HD				X	1732	100.71	5800	216.93	3400
1150V13HD				X	1732	119.9	6100	242.69	4000
1150V23HD				X	1732	119.9	6100	242.69	4000
1150V24HD				X	1732	119.9	6100	242.69	4000
1175V13HD				X	1732	130.55	6100	242.69	4000
1175V23HD				X	1732	130.55	6100	242.69	4000
1175V24HD				X	1732	130.55	6100	242.69	4000
1151V23HD				X	1732	119.9	6100	242.69	4000
1151V24HD				X	1732	119.9	6100	242.69	4000
1176V23HD				X	1732	130.55	6100	242.69	4000
1135V13ED				X	1732	100.71	5800	216.93	3400
1135V13ER				X	1732	100.71	5800	216.93	3400

ATTACHMENT 2 of 3

Model Year: ____2007_____ **Page: _____**
Manufacturer Name: ___Mercury Marine_____ **Issued: 11/3/06**
Engine Family: _____7M9XM01.73G0_____ **Revised: 8/30/07**
SI MARINE ENGINE SUPPLEMENTAL INFORMATION. **E.O.#: U-W-001-0163-1**

1135V13ID				X	1732	100.71	5800	216.93	3400
7135V13IR				X	1732	100.71	5800	216.93	3400
1135V23ED				X	1732	100.71	5800	216.93	3400
1135V23ER				X	1732	100.71	5800	216.93	3400
1135V23ID				X	1732	100.71	5800	216.93	3400
7135V23IR				X	1732	100.71	5800	216.93	3400
1135V24ED				X	1732	100.71	5800	216.93	3400
1135V24ER				X	1732	100.71	5800	216.93	3400
1150V13ED				X	1732	119.9	6100	242.69	4000
1150V13ER				X	1732	119.9	6100	242.69	4000
1150V13ID				X	1732	119.9	6100	242.69	4000
1150V13IR				X	1732	119.9	6100	242.69	4000
1150V23ED				X	1732	119.9	6100	242.69	4000
1150V23ER				X	1732	119.9	6100	242.69	4000
7150V23ID				X	1732	119.9	6100	242.69	4000
7150V23IR				X	1732	119.9	6100	242.69	4000
1150V24ED				X	1732	119.9	6100	242.69	4000
1150V24ED				X	1732	119.9	6100	242.69	4000
1150V24ER				X	1732	119.9	6100	242.69	4000
7150V24ID				X	1732	119.9	6100	242.69	4000
1175V13ED				X	1732	130.55	6100	242.69	4000
1175V13ER				X	1732	130.55	6100	242.69	4000
1175V13ID				X	1732	130.55	6100	242.69	4000
7175V13IR				X	1732	130.55	6100	242.69	4000
1175V23ED				X	1732	130.55	6100	242.69	4000
1175V23ER				X	1732	130.55	6100	242.69	4000

ATTACHMENT 3 of 3

Model Year: ____2007_____ **Page: _____**
Manufacturer Name: ___Mercury Marine_____ **Issued: 11/3/06**
Engine Family: _____7M9XM01.73G0_____ **Revised: 8/30/07**
SI MARINE ENGINE SUPPLEMENTAL INFORMATION. **E.O.#: U-W-001-0163-1**

1175V23ID				X	1732	130.55	6100	242.69	4000
7175V23IR				X	1732	130.55	6100	242.69	4000
1175V24ED				X	1732	130.55	6100	242.69	4000
1201V13ED				X	2598	147.15	6100	252	4250
1201V13ER				X	2598	147.15	6100	252	4250
7201V13ID				X	2598	147.15	6100	252	4250
7201V13IR				X	2598	147.15	6100	252	4250
1201V23ED				X	2598	147.15	6100	252	4250
1201V23ER				X	2598	147.15	6100	252	4250
7201V23ID				X	2598	147.15	6100	252	4250
7201V23IR				X	2598	147.15	6100	252	4250
1201V24ED				X	2598	147.15	6100	252	4250
1201V24ER				X	2598	147.15	6100	252	4250
1201V24IR				X	2598	147.15	6100	252	4250
1201V13ED				X	2598	147.15	6100	252	4250