MERCURY MARINE

EXECUTIVE ORDER U-W-001-0093 New Spark-Ignition Marine Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43013, 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		
2005	5M9XM.9952GE	Gasoline	995	Ultra Low Emission		
EQUIPMENT APPLICATION Outboard		Multiport	Fuel Injection	ENGINE TYPE		
ENGINE MODELS (rated power in kilowatts, kW)			See Attachment	and the second s		

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."

		<u> </u>
<u> </u>	FAMILY EMISSION LIMIT (g/kW-hr)	CERTIFICATION LEVEL (g/kW-hr)
HC+NOx		OLIVINION TOTAL CENTER (G/KAA-III.)
110 1100	17.30	14.30

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.

Executed at El Monte, California on this ______ day of January 2004.

Allen Jons, Chief

Mobile Source Operations Division

ATTACH MENT

Model Year: _	2005	
Manufacturer l	Name:	Mercury Marine

Issued: 12 Revised: 2

Page:

Engine Family: __ 5M9XM.9952GE ______ SI MARINE ENGINE SUPPLEMENTAL INFORMATION.

E.O.#: <u>1-12-001</u> 0093

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	S16 Rated Speed	S17 Peak Torque	S18 Peak Torque	
		Calif. Only	49 State	50- State		(kW)	(RPM)	(N-m)	Speed (RPM)
1A51411DD				X	995	36.79	5750	126.8	5000
1A51412DD			-	X	995	36.79	5750	126.8	5000
*1A51452DD				X	995	36.79	5750	126.8	5000
1A51412DN				Х	995	36.79	5750	126.8	5000
1A51452DN				Х	995	36.79	5750	126.8	5000
1A60411DD		_		Х	995	44.15	5750	160	5000
1A60412DC	***	_		Х	995	44.15	5750	160	5000
1A60412DD				Х	995	44.15	5750	160	5000
1A60412DN				X	995	44.15	5750	160	5000
1A60452DC			"	Х	995	44.15	5750	172.3	5000
1A60452DD	<u> </u>			Х	995	44.15	5750	172.3	5000
1A60452DN				Х	995	44.15	5750	172.3	5000
1A41452DD				Х	995	29.43	5750	157	5000
1A41452DN	1.81.11			X	995	29.43	5750	157	5000
1A514114D				Х	995	36.79	5750	126.8	5000
1A604524D		_		Х	995	44.15	5750	172.3	5000
1A60462DD				Х	995	44.15	5750	172.3	5000
19608D9CH		-		Х	995	44.15	5750	172.3	5000
19608D9DH				X	995	44.15	5750	172.3	5000
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