State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-W-6-9 Relating to Certification of New Spark-Ignition Marine Engines

OUTBOARD MARINE CORPORATION

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: 2001

<u>Fuel Type</u>: Gasoline <u>Engine Type</u>: 2-Stroke

Level of Cleanliness: Low Emission ("One Star")

Equipment Application: Outboard

Engine Family: 11PXM0105221

Displacement: 1727 cc

Exhaust Emission Control Systems and Special Features:

Electronic Control Module Direct 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 hydrocarbon 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
(estimated) Standard	Level
46.28	32.90

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.

BE IT FURTHER RESOLVED: That the certification to 13 CCR Section 2443.3 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 2004 day of June 2000.

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R. B. Summerfield, Chief Mobile Source Operations Division

Model Year: <u>∠001</u> Manufacturer Name: <u>Outboard Marine Corporation</u> Engine Family: <u>11PXM0105221</u>

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SI Marine Engine Model Summary Form

ECM, DFI ECM, DFI ECM, DFI ECM, DFI ECM, DFI ECM, DFI ECS 54. Torque Speed (RPM) 2750 2444 2750 2750 2444 2750 53. Rated Torque (N-m) 297.8 297.8 335.0 297.8 297.8 335.0 52. Rated Speed (RPM) 5500 5500 5500 5500 5500 5500 <u>.</u> ما (kW) 85.8 85.8 85.8 85.8 85.8 85.8 Š 50. **Basic Ignition Timing** Determined by ECM 44. Engine Family Sales-Weighted Power: (deg @ idle) 49. Bore/Stroke 91.44/65.74 91.44/65.74 91.44/65.74 91.44/65.74 91.44/65.74 91.44/65.74 (mm) 48. Disp. (cc) 1727 1727 1727 1727 1727 1727 47. 50-State \times $\times \times$ \times \times \times Sales Codes 49-State 46 Calif. Only RE115FSSIF E115FPXSIF RE115FLSIF RE115FXSIF E115FPLSIF E115FSLSIF Designation Model 45.

Note: The Rated Torque (Item 52) is the calculated propeller shaft torque based on the gear ratio of the gearcase and the Rated Power (Item 50) and the Rated Speed (Item 51) of the engine.

ATTACHMENT

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