State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-W-2-5
Relating to Certification of
New Spark-Ignition Marine Engines

SUZUKI MOTOR 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

Fuel Type: Gasoline Engine Type: 4-Stroke

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

Equipment Application: Outboard

Engine Family: 1SKXM1.952K8

Displacement: 1950 cc

Exhaust Emission Control Systems and Special Features:

Electronic Control Module
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 (estimated) Standard	Certification Level
16.69	12.33

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 18th day of October 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

Model Year: 2001
Manufacturer Name: Suzuki Motor Corporation
Engine Family: 1SKXM1.952K8

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Issued: 10/02/2000
Revised: _____
E.O. #: U-W-2-5

SI Marine Engine Model Summary Form

44. Engine Family Sales-Weighted Power:

45. Model Designation	46 Sales Codes			47. Disp. (cc)	48. Bore/Stroke (mm)	49. Basic Ignition Timing (deg @ idle)	Power (kW)	51. Rated Speed (RPM)	52. Rated Torque (N-m)	53. Torque Speed (RPM)	54. ECS
	Calif. Only	49-State	50-State								
DF90	30	370	400	1,950	84/88	8 deg. BTDC	66.19	5,000	145	3,500	ECM, MFI
DF115	50	550	600	1,950	84/88	8 deg. BTDC	84.58	5,500	159	4,500	ECM, MFI