## State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER U-W-8-2 Relating to Certification of New Spark-Ignition Marine Engines

### BOMBARDIER MOTOR CORPORATION OF AMERICA

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

**Engine Type: 4-Stroke** 

Level of Cleanliness: Very Low Emission ("Two Stars")

**Equipment Application: Outboard** 

Engine Family: 1BCXM0013220

Displacement: 210 cc

**Exhaust Emission Control Systems and Special Features:** 

Engine Modification

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 Level

57.21 37.76

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.

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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 22 day of April 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

Model Year: 2001

Manufacturer Name: Bombardier Motor Corporation of America Engine Family: 1BCXM0013220

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# SI Marine Engine Model Summary Form

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44. Engine Family Sales-Weighted Power: 6.0 kW	<del>5</del> .		ECS	EM	EM		,			:	
	53.	Torque	Speed (RPM)	2276	2276						
	. 52.	Rated	Torque (N-m)	25.0	25.0						
	51.	Rated	Speed (RPM)	5500	5500						
	50.		Power (KW)	6.0	0.9	,					
	49.		Basic Ignition Timing (dea @ idle)	Controlled by Ignition Module	Controlled by Ignition Module						
	48.		Bore/Stroke	56.6/42.0	56.6/42.0						
	47.		Disp.	210	210						
	46	Sales Codes	50-State	×	×						
			49-State								
			Calif. Only								
	45.	Model	Designation	E8RL4SI	E8RVL4SI			,			

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