State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-1-302
Relating to Certification of New Motorcycles

KAWASAKI HEAVY INDUSTRIES, LTD.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; 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 engine and exhaust emission control systems produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles:

Model Year: 2001

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
1KAXC.248AAA	248	II	Engine Modification

Vehicle models and transmissions are listed on the attachment. Production motorcycles shall be in all material respects the same as those for which certification is granted.

The following are the exhaust emission standards and certification emission values for this engine family:

Hydrocarbons (Standard) Grams per Kilometer	Hydrocarbons (Certification) Grams per Kilometer	Carbon Monoxide (Standard) Grams per Kilometer	Carbon Monoxide (Certification) Grams per Kilometer
1.0	0.9	12	9

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 2001 and Subsequent Model Motor Vehicles," as required by Section 1976, Title 13 of the California Code of Regulations.

BE IT FURTHER RESOLVED: That these motorcycles are found exempt from compliance with the Air Resources Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" pursuant to Executive Order G-70-16-E.

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

Executed at El Monte, California this 3rd day of May 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division

"Attachment"

Issued: MAR 1 7 2000
Revised:

Engine Family: 1KAXC.248AAA
E.O. #: M-1-302

Motorcycle Model Summary Form

65. Model Designation	66. Worst Case	67. Disp. (cc)	68. Bore / Stroke (mm)	69. Basic Ignition Timing (degrees)	70 Power (kW)	71 Rated Speed (RPM)	72 Rated Torque (Nm)	73. Rated Speed (RPM)
EX250-F15	No	248	62.0X41.2	5°/1300 rpm	27.9	11000	24.5	10000

65. Model Designation	74. EIM (kg)	75. Loaded Vehicle Weight Range (kg)	76 Road Load (nt)	77 Total Vehicle Mass (kg)	78 Full Weight with All Factory Options (kg)	79. Trans. Type	80 N/V
EX250-F15	260	256 ~ 265	127.3	161.5	185	M-6	77.81

Issued: MAR 1 7 2000
Revised: E.O.#: M-1-302

Motorcycle Engine Family Information Form

1. Manufacturer: KAWASAKI HEAVY INDUSTRIES, LTD.

2. Certification Contact Person, address, phone, and fax:

Jeffrey D. Shetler / David Corey
Kawasaki Motors Corp., U.S.A.
9950 Jeronimo Road, Irvine, CA 92618-2084
Tel : 949-770-0400 Fax : 949-460-5602

3. Model Year: 2001

4. Process Code: New
(new, correction, revision, r/c, f/f. etc.)

5. Engine Family: 1KAXC.248AAA
50s Engine Code: –
49s Engine Code: –
Calif. Engine Code: EX250F-AC1

6. Emission Control System: EM

7. Calif. Designated Standard: NA

8. Projected Annual Sales: ____

CONFIDENTIAL

9. New Technology ___ Yes X No
If yes, cite the correspondence or reference the submittal document: _____

10. Displacement: 248 cm³

11. Number of Cylinders: 2

12. Cylinder Arrangement: Inline-2

13. Cylinder Head Configuration: OHV/DOHC

14. Type of Cooling: Liquid

15. Combustion Cycle: 4

16. Method of Aspiration: Natural

17. Fuel System: Carburetor

18. Number of Catalytic Converters: NA

19. Adjustable Parameters:

Parameter(s)	Adjustable Range (or NA)	Tamper Resistance Method (or NA)	Method Approved
Air adjust on carburetor (Air/Fuel Ratio)	NA	A tamper proof cap is placed over the adjusting screw	Carry over

20. AECDs In the Emission Control Systems:

Exhaust System		Evaporative System	
AECDs In System:	EM	AECDs In System:	Sealed loop with Canister

Engine Family: 1KAXC.248AAA

Motorcycle Test Information Form

E.O.#: M-1-302

0.25

27. Are you carrying over test results from a previously certified family? X Yes ___ No
    a) If yes, indicate family name: JKA024842A7
    b) Is the family being certified identical to the family from which the data is being carried over? Yes

28. Model Designation of Test Vehicle: EX250-F2

29. Test Information Number: 88-1

30. Vehicle ID: EX250E-007291

31. Service Accumulation Duration: 9000 (km)

32. Maximum Rated Power: 27.9 kW @ 11000 RPM

33. Displacement: 248 cc

34. Certification Fuel: Indolene: 91-95 RON

35. Test Data Set: Test 1

36. Road Load: 127.3 nt at 65 kph

37. Inertia Mass: 260 kg

38. N/V: 77.81

39. EVAP. Bench Test Method Approved:
    Date: 2/23/1983
    Reference: 84ARB-03

40. Unscheduled Maintenance: ___ Yes X No

41. If yes, Vehicle Log provided: _____

42. Exhaust Emission Deterioration Factors:

		Emission Values	
Test Number	System Kilometers	HC	CO
1	2513	0.90	8.6
2	5163	0.95	8.5
3	5193	0.92	8.3
4	9013	0.92	8.9
5			
6			
7			
Interpolated Values at 9000 km:		**HC = 0.9307**	**CO = 8.7685**
Extrapolated Values at 18000 km:		**HC = 0.9516**	**CO = 9.2618**

Check one:	
Regular DF	X
Modified DF	
If different vehicle specify vehicle ID	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4		Deterioration Factors
g/km	CO	8.9				(X)	1.022
g/km	CO_2	60.7					----------
g/km	HC	0.92				(X)	1.056
g/test	Evap.	0.521				(+)	0.036

44. Certification Levels:

g/km	CO	9			
g/km	HC	0.9			
g/test	Evap.	0.557			

Application Processed by: Joseph Jegede Date: 5/2/2000 Reviewed by: S. Hada Date: 5/2/00