AIR RESOURCES BOARD	HONDA MOTOR CO., LTD.	EXECUTIVE ORDER M-002-0535 New On-Road Motorcycles
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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-02-003;

IT IS ORDERED AND RESOLVED: That the engine and emission control systems produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles. Production vehicles shall be in all material respects the same as those for which certification is granted. The manufacturer shall ensure that character "C" or "3" is <u>not</u> used in the eighth (8<sup>th</sup>) position of the vehicle identification number (VIN) of all vehicles in the engine family listed below. Violation of this VIN provision may result in incorrect registration of the vehicles.

MODEL YEAR	ENGINE FAMILY	EVAPORATIVE FAMILY	ENGINE DISPLACEMENT (cc)	CLASS
2007	7HNXC0.24AAA	7HNXE0008BYB	244	11
SPECIAL EMISSION CC	FEATURES & INTROL SYSTEMS	VEHIC (equivalent inertia	LE MODELS a mass in kilograms, kg)	* = not applicable
	EM		CN250 (250 kg)	
ABBREVIATIONS: HO2S=heated O2S TBI=throttle body fu	EM≖engine modification T EGR=exhaust gas recircula el injection DFI=direct fuel	WC=three-way catalyst OC=oxidizing tion AIR=secondary air injection PAI injection TC/SC=turbo/super charger	catalyst WUTWC/WUOC=warm-up TWC/OC C ≈=pulsed AIR MFI=multi port fuel injection S CAC=charge air cooler 2 (prefix)≕parallel (	O2S=oxygen sensor Fl=sequential MFI 2) (suffix)≕in series

The following are the exhaust hydrocarbons (HC) and carbon monoxide (CO) standards, or designated HC standard as applicable, and certification levels in grams per kilometer (g/km), and evaporative standard and certification level in grams per test (g/test) for this engine/evaporative family. The designated HC standard, as applicable, shall be listed on the permanent tune-up label.

	HC	(g/km)		со	(g/km)	EVAPORA	ATIVE (g/test)
AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	
*	*	1.0	0.9	12	9	2.0	0.6

**BE IT FURTHER RESOLVED**: That certification to the designated HC standard listed above, as applicable, is subject to the following terms, limitations and conditions:

The designated HC standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the HC exhaust standard applicable to this engine family for determining compliance with Title 13, California Code of Regulations, Sections 1958(b) and 2101.

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

**BE IT FURTHER RESOLVED**: That because the listed motorcycles are certified to 0.2 grams per test or more below the applicable evaporative standard, the vehicles are exempt from complying 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.

This Executive Order is only granted to the engine family and model-year listed above. Vehicles 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 June 2006.

Allen Lyons, Chief Mobile Source Operations Division

EONO M-002-0535

2007 HONDA Motorcycle

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N/A

## Motorcycle Engine Family Information Form

- 1. Manufacturer: Honda Motor Co., Ltd.
- 2. Certification contact Person, address, phone, and fax:

	Julie Barkow-Peck, Certification Assistant, Certification Department
	American Honda Motor Co., Inc. Mail Stop 500-2C-8A
	1919 Torrance Blvd., Torrance CA 90501-2746
	Telephone: (310)783-3417 Fax: (310)783-3510 E-Mail: Julie_Peck@ahm.honda.com
'	· ·

10. Displacement (cc): 244

11. Number of Cylinder: 1

15. Combustion Cycle: Otto

17. Fuel System: Carburetor

12. Cylinder Arrangement: Vertical

14. Type of Cooling: Liquid Cooled

16. Method of Aspiration: Natural

18. Number of Catalytic Converters:

13. Cylinder Head Configuration: OHV/OHC

- 3. Model Year: 2007
- Process Code: New (new, correction, revised, r/c, f/f, etc.)
- 5. Engine Family: 7HNXCO.24AAA 50s Eng. Code: 7EB1 49s Eng. Code: N/A Calif.Eng. Code: N/A

6. Emission Control System: EM

- 7. Calif. Designated Standard(g/km);
- HC HC+NOx

 $\boxtimes$  N/A

- 8. Project Annual Sales:
- 9. New Technology: ☐ Yes ⊠ No If yes, cite the correspondence or reference the submittal document: N/A

19. Adjustable Parameters:

Parameters (s)	Adjustable Range (or N/A)	Tamper Resistance Method (or N/A)	Method Approved
Carburetor Pilot Screw	Limited to 7/8 turn leaner side only	Limiter cap	N/A

#### 20. AECDs in the Emission Control System:

Exhaust System	Evaporative System
AECLs In System: ICM Ignition Pulse Generator	AECDs In System: <u>N/A</u>
Processed by: 1 tons Hades 5-2	

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Engine Family: 7HNXC0.24AAA

# Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family? 🛛 Yes 🗌 No a) If yes, indicate family name: 6HNXCO.24AAA 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: CN250

29. Test Information Number: G01

30. Vehicle ID: 86BB-21

31. Service Accumulation Duration (km): 9013

32. Maximum Rated Power (kW @ RPM): 15.7 @ 7500

33. Displacement (cc): 244

34. Certification Fuel: Indolene

- 35. Test Data Set: 1
- 42. Exhaust Emission Deterioration Factor

36. Road Load (nt): 125.3

37. Inertia Mass(kg): 250

38. N/V: 71.4

39. Evap Bench Test Method Approval:

Reference: 17.01.01-1 (ARB) & 17.01.02-2 (ARB) thru 17.01.02-12 (ARB) in 1999 Model Year Application

40. Unscheduled Maintenance: No

41. If yes Vehicle Log Provided: N/A

·····		·····	Emission	n Values	
Test Number	System Kilometers	HC	ω	NOx	HC+NOx
1	2533	0.89	9.6		
2	6320	0.93	10.4		
3	6350	0.89	10.4		
4	9013	0.88	9.3		
5					
6					
7					
Interpolated	I Values at <u>9,000</u> km	: F	C = 0.8949 CHNOR =	$\infty = 9.8$	644
Extrapolated	I Values at <u>18,000</u> km	: H H	C = 0.8869 CHNOK =	œ = <u>9.6</u>	794

### 43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4	
g/km	ω	9.3				(X)
g/km	ದ್ರ	68.3				
g/km	HC	0.88				(X)
g/km	NOx					
g/km	HC+NOx					
g/test	Evap.	0.56				(+)

Deterioration Factors
1.000 (0.981)
1.000 (0.991)
0.0

### 44. Certification Levels:

g/km	CO(EPA)	9.3		
g/km	CO(ARB)	$\bigcirc$		
g/km	HC	0.9		
g/test	Evap.	0.6		

():Calculated Value

Check One: Regular DF  $\times$ Modified DF If Different Vehicle Specify Vehicle ID

Data: March 9, 1983

2007 HONDA Motorcycle

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Engine Family: 7HNXC0.24AAA

II

Charcoal

# Evaporative Emission Information

- 45. Evaporative Family: 7HNXE0008BYB
- 46. Number of Evap. Canisters: 1
- 47. Design Working Capacity(g): 8.0
- 48. Configuration: Open Bottom
- 49. Number of storage Areas: 1
- 50. Fuel Reservoir Volume (cc): 60
- 51. Vent System Configuration: External
- 52. Nominal Tank Capacity(liter): 12.0

### Bench DF

- 61. Test Vehicle ID: 8698-21
- 62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	2500	0.84
2	2500	0.85
3	2500	0.71
4	9000	0.64
5	9000	0.72
6	9000	0.69
7		
Interpolated	Values at 9,000 km	= 0.683
Extrapolated	Values at 18,000 km	= 0.522
Bench Test D	.F. = 0.00 (calcu	lated value = -0.16

Regular DF ×   Modified DF If   If Different Vehicle Specify Vehicle ID	Check One:	
Modified DF If Different Vehicle Specify Vehicle ID	Regular DF	
If Different Vehicle Specify Vehicle ID	Modified DF	
	If Different Specify Vehic	Vehicle cle ID
		+

### Vehicle DF

- 63. Test Vehicle ID: 86BB-01
- 64. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)				
1	2593	0.58				
2	6485	0.42				
3	6516	0.63				
4	9015	. 0.56				
5						
6						
7		· · · · · · · · · · · · · · · · · · ·				
Interpolated Values at $9,000$ km: = $0.535$						
Extrapolated	Values at 18,000 km:	= 0.496				
Vehicle Test D.F. = 0.00 (calculated value = -0.04)						

#### 2007 HONDA Motorcycle

54. Storage Medium Composition:

- 55. Evap. Canister Medium Volume (cc): 210 +/- 20/0
- 56. Evap. Family Sales:

53. Engine Displacement Class:

- 57. Engine Code: 7BB1
- 58. Evap. Emission Family Code: 07YB
- 59. Evap. Emission Family Group: B
- 60. Overall Evap D.F.= 0.0

2007 HONDA Motorcycle

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Engine Family: 7HNXC0.24AAA

## 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 (REM)	72, Rated Torque (Nm)	73. Rated Speed (REM)
QN250	X	244	72.0 / 60.0	12 (BTDC)	15.7	7500	22.6	5500



Item 78:

Curb weight, Rider weight, Production tolerance & Weight of optional accessories