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	7HNXC0.58ABA	7HNXE0024TZH	583	111
	FEATURES & NTROL SYSTEMS	VEHIC (equivalent inerti	* = not applicable	
PAIR			VT600C (320 kg) VT600CD (320 kg)	
ABBREVIATIONS: H02S=heated 02S TBI=throttle body fu	t likepynalist dat recircula	INON AIR=cocondantairiniaction DAL	R≂pulsed AIR MFI≃multi port fuel injection SF	2S=oxygen sensor l=sequential MFI ) (suffix)=in series

The following are the exhaust hydrocarbons plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) standards, or designated HC+NOx 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+NOx standard, as applicable, shall be listed on the permanent tune-up label.

				EARLY COMP	LIANCE CREDIT MUI	TIPLIER	*
	HC+NOx	(g/km)		CO (g/km)		EVAPORATIVE (g/test)	
CORPORATE AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL
*	*	1.4	1.1	12	7	2.0	0.8

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

The designated HC+NOx standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the HC+NOx 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 for certification to the HC+NOx standard, or designated standard as applicable, listed above, the listed vehicle models are granted an early-compliance credit multiplier as indicated above pursuant to Title 13, California Code of Regulations, Section 1958(q).

**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

EO No. M-002-0536

Section: 7 Page:1
Issued: 02/23/2006

Revised:

# Motorcycle Engine Family Information Form

			4			
l, Manufacturer: Honda Mot	or Co., Ltd.					
Certification contact R	erson, address, phone, a	and fa	x:			
American Honda Motor ( 1919 Torrance Blvd., 1	rtification Assistant, ( Co., Inc. Mail Stop 500- Torrance CA 90501-2746 417 Fax: (310)783-3510 E	-2C-8A	ication Department : Julie Peck@ahm.honda.com			
. Model Year: 2007			10. Displacement(cc): 58	3		
. Process Code: New (new, correction, revise	ed, r/c, f/f, etc.)		11. Number of Cylinder:	2		
. Engine Family: 7HNXCO.			12. Cylinder Arrangement:	52 Degrees V-2		
50s Eng. Code: N/A 49s Eng. Code: 7CD1			13. Cylinder Head Configu	ration: OHV/OHC		
Calif.Eng. Code: 7CD	2		14. Type of Cooling: Lic	quid Cooled		
. Emission Control System	: PAIR		15. Combustion Cycle: Ot	to		
Direct. Calif. Designated Standa	ard(g/km): □N/A □HC		16. Method of Aspiration:	Natural		
. Project Annual Sales:	☐ HC+NOx -	-1.4	17. Fuel System: Carburetor			
. New Technology:   Yes  If yes, cite the corresp  the submittal document:	ondence or reference		18. Number of Catalytic C	onverters: N/A		
9. Adjustable Parameters:						
Parameters (s)	Adjustable Range (or N/A)	T	amper Resistance Method (or N/A)	Method Approved		
Carburetor Pilot Screw	Not Limited		ess "D" shaped head that equires a special tool	Approved by EPA on 09/03/91		
			, <u>h</u>			
O. ABCDs in the Emission (	Control System:					
Exhaust System			Evaporative System			
AECOs In System:  PAIR Valve TP Sensor ICM			AECDs In System:  EVAP CAV Control Valve  Evap Canister Purge Valve			

Processed by Stantada 5-22-06

Section: 7 Page: 4 Issued: 02/23/2006

Revised:

Engine Family: 7HNXC0.58ABA

# Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family?

a) If yes, indicate family name:

6HNXCO.58CBA

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:

VT600C

29. Test Information Number:

30. Vehicle ID: 04CD-01

31. Service Accumulation Duration (km):

15015

32. Maximum Rated Power(kW @ RFM):

28.3 @ 6500

33. Displacement (cc): 583

34. Certification Fuel: Indolene

35. Test Data Set: 1

42. Exhaust Emission Deterioration Factor

36. Road Load (nt): 139.5

37. Inertia Mass(kg): 320

38. N/V: 41.6

39. Evap Bench Test Method Approval:

Data: March 9, 1983

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:

Yes □ No

41. If yes Vehicle Log Provided:

See Section 7 page 14

Check One

		Emission Values					
Test Number	System Kilometers	HC	ω	NOx			
1	3519	0.46	7.4	0.47			
2	6415	0.50	7.7	0.45			
3	6445	0.51	7.6	0.47			
4	9615	0.48	7.4	0.46			
5	12818	0.47	7.3	0.46			
6	12848	0.49	7.3	0.51			
7	15015	0.54	7.3	0.49			

GACON ONC.				
Regular DF	×			
Modified DF				
If Different Vehicle Specify Vehicle ID				

Interpolated Values at 15,000 km:

HC = 0.5079

 $\infty = 7.2877$ 

NOx = 0.4867

Extrapolated Values at 30,000 km:

 $\infty = 6.9018$ HC = 0.5492

NOx = 0.5246

(X)

(X)(X)

(+)

#### 43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	8	7.3			
g/km	ಯ್ತ	73.9			
g/km	HC	0.54			
g/km	NOx	0.49			
g/test	Evap.	0.61			

Deterioration Factors
1.000 (0.947)
1.081
1.078
0.2

44. Certification Levels:

			•	
g/km	∞(EPA)	7.3		
g/km	CO (ARB)	7		
g/km	HC+NOx	(1.1)		
g/test	Evap.	(0.8)		

():Calculated Value

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Revised:

Engine Family: 7HNXC0.58ABA

### Evaporative Emission Information

45. Evaporative Family: 7HNXE0024TZH

46. Number of Evap. Canisters:

47. Design Working Capacity(g): 23.5

48. Configuration: Open Bottom

49. Number of storage Areas: 1

50. Fuel Reservoir Volume (cc):

51. Vent System Configuration: Internal

52. Naminal Tank Capacity(liter):

53. Engine Displacement Class:

54. Storage Medium Composition:

Charcoal

55. Evap. Canister Medium Volume (cc): 570 +/- 10

56. Evap. Family Sales:

57. Engine Code: 7CD2

58. Evap. Emission Family Code:

59. Evap. Emission Family Group:

60. Overall Evap D.F.=

### Bench DF

61. Test Vehicle ID: 9900-01

62. Test Results:

Test Number	System Kilameters	Evap. Emission Values (g/test)
1	3500	0.21
2	3500	0.21
3	3500	0.22
4	15000	0.40
5	15000	0.28
6	15000	0.26
7		
Interpolated	Values at 15,000 km:	= 0.313
Extrapolated	Values at 30,000 km:	= 0.444
Bench Test D	.F. = <u>0.13</u>	

Check One:	
Regular DF	X
Modified DF	
If Different Specify Vehic	

### Vehicle DF

63. Test Vehicle ID: 9900-01

64. Test Results:

Test Number	System Kilameters	Evap. Emission Values (g/test)
1	3602	0.20 .
2	6385	0.69
3	6415	0.43
4	9755	0.70
5	12954	0.73
6	12984	0.44
7	15013	0.61
Interpolated	Values at 15,000 km:	= 0.673
Extrapolated	Values at 30,000 km:	= 1.034
Vehicle Test	D.F. = 0.36	

2007 HONDA Motorcycle

EO No. M-002-0536

Section: 7 Page: 6
Issued: 02/23/2006

Revised:

Engine Family: 7HNXC0.58ABA

# Motorcycle Model Summary Form

65. Model Designation	66. Worst Case	67. Disp. (cc)	68. Bore / Stroke (mm)	69. Basic Ignition Timing (degrees)	70. Power (kiV)	71. Rated Speed (RHM)	72. Rated Torque (Nm)	73. Rated Speed (RFM)
VI600C	X	583	75.0 / 66.0	4.5(BTDC)	28.3	6500	50	3500
VI600CD		583	75.0 / 66.0	4.5 (BTDC)	28.3	6500	50	3500
	<u> </u>							

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
VT600C	320	316 - 325	139.5	325	325	M4	41.6
VT600CD	320	316 - 325	139.5	325	325	M4	41.6

Item 78:
Curb weight, Rider weight, Production tolerance & Weight of optional accessories