

Joseph J.

 <b>AIR RESOURCES BOARD</b>	<b>APRILIA S.p.A.</b>	<b>EXECUTIVE ORDER M-43-2</b> 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-45-9;

IT IS ORDERED AND RESOLVED: That the following 2000 model-year engine and emission control systems (ECS) produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles:

<u>Engine Family</u>	<u>Evaporative Family</u>	<u>Displacement (cm<sup>3</sup>)</u>	<u>Class</u>	<u>ECS &amp; Special Features</u>
YASPC0.99MEA	YASPE0024MLA	998	III	OC, SFI

Vehicle Models (Equivalent Inertia Mass): RSV 1000 (300 kg), RSV 1000R (300 kg)

Production motorcycles shall be in all material respects the same as those for which certification is granted.

The exhaust emission standards and certification values in grams per kilometer for hydrocarbons (HC) and carbon monoxide (CO), and the HC evaporative (Evap) standard and certification value in grams per test for this engine/evaporative family are as follows:

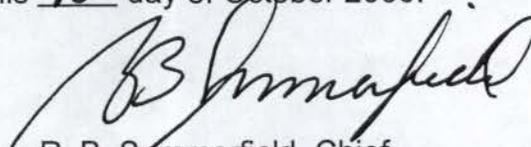
	<u>HC</u>	<u>CO</u>	<u>Evap HC</u>
<u>Standard: (Effective Standard)</u>	1.4	12	2.0 (1.8)
<u>Certification:</u>	0.6	2	1.5

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 because the listed motorcycles are certified to 0.2 grams per test or more below the applicable evaporative emission 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.

Executed at El Monte, California this 10<sup>th</sup> day of October 2000.

  
 R. B. Summerfield, Chief  
 Mobile Source Operations Division

## Motorcycle Engine Family Information Form

1. Manufacturer: **Aprilia S.p.A.**
2. Certification Contact Person, address, phone, and fax:

<b>Kathleen H. Wolf</b> Harrison / Wolf Consulting 1275 N. Indian Hill Blvd. Claremont, CA 91711	tel: (909) 626-1395 fax: (909) 626-2906
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3. Model Year: 2000
4. Process Code: New  
(new, correction, revision, r/c, f/f. etc.)
5. Engine Family: YASPC0.99MEA  
 50s Engine Code: ✓  
 49s Engine Code: \_\_\_\_\_  
 Calif. Engine Code: \_\_\_\_\_
6. Emission Control System: OC, SFI
7. Calif. Designated Standard: \_\_\_\_\_
8. Projected Annual Sales:  

CONFIDENTIAL
9. New Technology \_\_\_ Yes  No  
 If yes, cite the correspondence or reference the submittal document: \_\_\_\_\_

10. Displacement: 997.6
11. Number of Cylinders: 2
12. Cylinder Arrangement: V 60°
13. Cylinder Head Configuration: DOHC,  
4 valves per cylinder
14. Type of Cooling: liquid cooled
15. Combustion Cycle: 4-stroke
16. Method of Aspiration: natural
17. Fuel System: \_\_\_\_\_ SFI
18. Number of Catalytic Converters: 1

19. Adjustable Parameters:

Parameter(s)	Adjustable Range (or NA)	Tamper Resistance Method (or NA)	Method Approved

20. AECDs In the Emission Control Systems:

Exhaust System	Evaporative System
AECDs In System: _____	AECDs In System: _____
_____	_____
_____	_____
_____	_____
_____	_____

Engine Family: YASPC0.99MEA

## Motorcycle Test Information Form

0.2

27. Are you carrying over test results from a previously certified family? \_\_\_ Yes  No  
 a) If yes, indicate family name: \_\_\_\_\_  
 b) Is the family being certified identical to the family from which the data is being carried over? \_\_\_\_\_
28. Model Designation of Test Vehicle: RSV 1000
29. Test Information Number: 2472
30. Vehicle ID: ZD4ME0000WS100532
31. Service Accumulation Duration: 15,000 (km)
32. Maximum Rated Power: 64.7 kW @ 9250 RPM
33. Displacement: 997.6 cc
34. Certification Fuel: Indolene
35. Test Data Set: 1
36. Road Load: 135.4 nt
37. Inertia Mass: 300
38. N/V: 37.9
39. EVAP. Bench Test Method Approved:  
Date: N/A  
Reference: \_\_\_\_\_
40. Unscheduled Maintenance: \_\_\_ Yes  No
41. If yes, Vehicle Log provided: \_\_\_\_\_
42. Exhaust Emission Deterioration Factors:

Test Number	System Kilometers	Emission Values	
		HC	CO
1	3489	0.727	3.737
2	7951	0.629	2.764
3	8003	0.721	2.496
4	15001	0.570	2.073
5			
6			
7			
<b>Interpolated Values at 15,000 km:</b>		<b>HC = 0.573</b>	<b>CO = 1.898</b>
<b>Extrapolated Values at 30,000 km:</b>		<b>HC = 0.367</b>	<b>CO = -0.143 = 0</b>

Check one:	
Regular DF	<input checked="" type="checkbox"/>
Modified DF	<input type="checkbox"/>
If different vehicle specify vehicle ID	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	CO	2.073			
g/km	CO <sup>2</sup>	125.43			
g/km	HC	0.570			
g/test	Evap.	0.975			

Deterioration Factors
(X) 1.00
_____
(X) 1.00
(+) 0.5

44. Certification Levels:

g/km	CO	(2.073)		
g/km	HC	(0.570)		
g/test	Evap.	(1.475)		

Application Processed by: Joseph Jegede Date: 10/6/2000  
 Reviewed by: [Signature] Date: 10/6/00

Issued:  
 Revised:

Engine Family: YASPC0.99MEA

**Evaporative Emission Information**

- 45. Evaporative Family: YASPE0024MLA
- 46. Number of Evap. Canisters: 1
- 47. Design Working Capacity: 24 g
- 48. Configuration: \_\_\_\_\_
- 49. Number of Storage Areas: \_\_\_\_\_
- 50. Fuel Reservoir Volume: 20 l
- 51. Vent System Configuration: N/A
- 52. Nominal Tank Capacity: 20 l
- 53. Engine Displacement Class: III
- 54. Storage Medium Composition: Activated Carbon
- 55. Evap. Canister Medium Volume: \_\_\_\_\_
- 56. Evap. Family Sales: \_\_\_\_\_
- 57. Engine Code: RO525149
- 58. Evap. Emission Family Code: N/A
- 59. Evap. Emission Family Group: N/A
- 60. Overall Evap D.F. = 0.5

**Bench DF**

- 61. Test Vehicle ID: \_\_\_\_\_
- 62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1		
2		
3		
4		
5		
6		
7		
Interpolated Values at _____ km: = _____		
Extrapolated Values at _____ km: = _____		
Bench Test D.F. = _____		

Check One:	
Regular DF:	<input type="checkbox"/>
Modified DF:	<input type="checkbox"/>
If different vehicle specify the vehicle ID	

**Vehicle DF**

- 63. Test Vehicle ID: ZD4MEE000WS100532
- 64. Test Results.

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	15,001	0.975
2		
3		
4		
5		
6		
7		
Interpolated Values at 15,000 km:		
Extrapolated Values at 30,000 km:		
Vehicle Test D.F. = <u>0.5</u>		