

#### BAYERISCHE MOTOREN WERKE AG

**EXECUTIVE ORDER A-008-0164** New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 39516 and Executive Order G-02-003;

### IT IS ORDERED AND RESOLVED:

That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	USEFU (mil		IN- COMP (*=N/A or A/E=ex	MEDIATE USE LIANCE full In-use; h. / evap. late In-use)	FUEL TYPE	
2004	4BMXV03.0M5R	Passenger Car	Ultra Low Emission Vehicle (ULEV)	EXH / ORVR	EVAP	EXH	EVAP	Gasoline	
· er e (fina en regional) en su	Mark's make a large of the community of	· ·		100K	150K	*	E		
No.	ECS & S	SPECIAL FEATURES	EVAPORATIVE	EVAPORATIVE FAMILY (EVAF)					
1	2TWC, 2HO	2S(2), SFI, AIR, OBD(P)	4BMXR	0128E85		***			
*			*						
*			•	3	Gasoline				
*		*			摄				

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations.

#### BE IT FURTHER RESOLVED:

That the exhaust and the evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's "NMOG Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

#### **BE IT FURTHER RESOLVED:**

That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

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

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this \_\_\_\_\_\_/\$^2 day of September 2003.

Parpher & Sumary 2. Allen Lyons, Chief

Mobile Source Operations Division

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and Medium-Duty Vehicles

## **ATTACHMENT**

# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

	FLEET GE [g/mi]	NMOG ( CH4 R	@ RAF=* !AF = *	I MINIOG OI	ncnc=ioiii	raidenyde; r	'M=paπiculat	e matter: KA	u-=reactivity a	idiustment fa	ictor: 2/3 D (a/	testi=2/3 day	NOx=oxides or	•	
CERT	STD	NMOG	NMHC	I NMHC	Inot-soak: K	L lovmil=runi	ning loss: OR	VR (g/gallor	i dispensedi=	on-board ref	ueling vapor r	acovers and	ram; mg=milliq	gram	
0.048	0.048 0.053 [g/mi] [g/mi]		CERT	[g/mi]	CO [g/mi]		NOx	[g/mi]	НСНО			PM [g/mi]		Hwy NOx [g/mi]	
ACCOUNT OF MATURES			[8,]		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
	@ 50K	0.012	•	0.040	0.8	1.7	0.04	0.2	0.2	8.	*	*	0.01	0.3	
	@ UL	0.013	*	0.055	0.9	2.1	0.05	0.3	0.2	11.	*		0.01	0.4	
	@ 50°F & 4K	0.028	*	0.080	0.4	1.7	0.03	0.2	0.1	16.	•	•	•	*	

CO [g/mi] @ 20°F & 50K				Ox [g/mi] posite)		g/mi] posite)		+NOx [US06]	CO [	g/mi] :06]		+NOx [SC03]	CO [ SC]	g/mi] 03]
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
CERT	2.1	SFTP @ 4000 miles	*	*	*	*	0.03	0.14	0.3	8.0	0.04	0.20	0.5	2.7
STD	10.0	SFTP @ * miles	*	•	*	•	*	*		•	*	*	*	

						On-Board Refueling Vapor Recovery (grams/gallon) @ UL		
CERT	STD	CERT	STD	CERT	STD	CERT	STD	
0.45	0.50	0.27	0.65	0.01	0.05	0.06	0.20	
*	•	*	*	*		*	•	
*	*	*	•	*	•	*	•	
*	•	*	*	*	*	*		
	(grams/te		(grams/test) @ UL (grams/te	(grams/test) @ UL (grams/test) @ UL  CERT STD CERT STD	(grams/test) @ UL (grams/test) @ UL (grams/n	(grams/test) @ UL (grams/test) @ UL (grams/mile) @ UL  CERT STD CERT STD CERT STD	(grams/test) @ UL (grams/test) @ UL (grams/mile) @ UL Recovery (gram  CERT STD CERT STD CERT  Output  Output	

\* = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; O2S=oxygen sensor; HO2S=heated O2S; AFS/HAFS=air- fuel ratio sensor; heated AFS; EGR=exhaust gas recirculation; AIR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol Fuel;

## 2004 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	INTERMEDIATE IN-USE COMPLIANCE ("=N/A or full in-use; A/E=exh. / evap. intermediate in-use)		PHASE-IN STD.	OBD II	
``					EXH	EVAP			
BMW	Z4 3.0i	4BMXR0128E85	1	3	*	E	SFTP	Partial	