EXECUTIVE ORDER A-008-0343-3

🖉 Air Resources Board

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-14-012;

#### 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.

YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	USEFUL LI	FE (miles)	FUEL TYPE		
2014	EBMXJ02.0N20 Passenger Car (PC)/LDT2:		"LEV II" Ultra Low Emission	EXH / ORVR	EVAP	Gasoline		
2014		<6000#GVWR;3751-5750#LVW	Vehicle (LEV II ULEV)	150K 150K				
No.	and the second of the second s	SPECIAL FEATURES	EVAPORATIVE FAM	72	DISPLACEMENT (L)			
1	TWC, AFS,H	O2S, DFI, TC, CAC, OBD(F)	EBMXR0130N54					
*		*	•			2		
*		*	*					

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<sup>°</sup> 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 or NMOG+NOx, as applicable, Fleet Average" (PC or LDT or MDPV) 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 through 2014 Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2009 through 2016 Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended December 6, 2012 (CA Test Procedures)).

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

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated CA Test Procedures. The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard during model-years (MY) 2012 through 2015.

#### BE IT FURTHER RESOLVED:

Additional NMOG fleet average or vehicle equivalent credits are granted to the listed vehicle models pursuant to 13 CCR Section 1961(a)(8) [optional 150K certification].

California Environmental Protection Agency

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.

This Executive Order hereby supersedes Executive Order A-008-0343-2 dated November 26, 2013.

Executed at El Monte, California on this \_\_\_\_\_\_day of March 2014.

Annette Hebert, Chief Emissions Compliance, Automotive Regulations and Science Division

California Environmental Protection Agency

OB Air Resources Board

BMW

BMW

BMW

428i xDrive Convertible

528i

528i xDrive

**BAYERISCHE MOTOREN WERKE AG** 

EXECUTIVE ORDER A-008-0343-3

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

Full

HCT

HCT

HCT

# 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.)

@ 50K     0.011     •     0.040     1.1     1.7     0.02     0.05     •     8.     •     •     0.003     0.01       @ UL     0.014     •     0.040     1.1     1.7     0.02     0.05     •     8.     •     •     0.003     0.01       @ 20*F & 4K     0.09     •     0.080     0.4     1.7     0.02     0.05     •     16.     •     <	NMOG FLEET AVERAGE [g/mi]		NMOG @ RAF=* CH4 RAF = *		NMOG or	HCHO=for	maldehyde; F	M=particul	ate matter; I	RAF=read	tivity adjust	ment fact	CO=carbon r or; 2/3 D [g/tes	st]=2/3 day	diumal+		
D.03     0.043     CERT [g/m]     CD (g/m] [g/m]     NOx (g/m] CD (g/m]     NOx (g/m] NOx (g/m]     PM (g/m] PM (g/m]     PM (g/m] PM (g/m]     PM (g/m] PM (g/m]     Here (g/m)       (2)     50K     0.011     0.040     1.1     1.7     0.02     0.05     •     8.     •     0.003     0.0       (2)     0.014     0.040     1.1     1.7     0.02     0.05     •     16.     •     •     •     0.003     0.0       (2)     0.014     0.055     1.3     2.1     0.02     0.05     •     16.     • <td< th=""><th></th><th colspan="2">D STD NMOG</th><th colspan="2"></th><th>mi=mile; K</th><th>=1000 miles;</th><th>F=degrees</th><th>Fahrenheit</th><th>; SFTP=si</th><th>sed]=on-bo</th><th>ard refue</th><th>test procedure</th><th>overy; g=gr</th><th>am; mg=milli</th><th>gram</th></td<>		D STD NMOG				mi=mile; K	=1000 miles;	F=degrees	Fahrenheit	; SFTP=si	sed]=on-bo	ard refue	test procedure	overy; g=gr	am; mg=milli	gram	
0.003     0.043     10/mit     10/mit <th></th> <th>-</th> <th></th> <th></th> <th></th> <th>CO</th> <th>[g/mi]</th> <th>NO</th> <th colspan="2"></th> <th colspan="2"></th> <th>PM [g/</th> <th>mi]</th> <th></th> <th>x [g/mi]</th>		-				CO	[g/mi]	NO					PM [g/	mi]		x [g/mi]	
Byth     0.011     0.044     1.1     1.7     0.02     0.035     1.     -     0.003     0.01       Byth     0.014     0.055     1.3     2.1     0.02     0.07     11.     -     0.01     0.003     0.01       Byth     0.080     0.4     1.7     0.02     0.05     16.     - </th <th>0.035</th> <th>0.043</th> <th>[g/m]</th> <th>[g/m]</th> <th></th> <th>CERT</th> <th>STD</th> <th>CERT</th> <th>STD</th> <th></th> <th></th> <th>TD</th> <th>CERT</th> <th>STD</th> <th>CERT</th> <th>ST</th>	0.035	0.043	[g/m]	[g/m]		CERT	STD	CERT	STD			TD	CERT	STD	CERT	ST	
@ 59°F & 4K     0.003     *     0.080     0.4     1.7     0.02     0.05     *     16.     * <t< td=""><td></td><td>@ 50K</td><td>0.011</td><td>*</td><td>0.040</td><td>1.1</td><td>1.7</td><td>0.02</td><td>0.05</td><td>*</td><td></td><td>8.</td><td>*</td><td>*</td><td>0.003</td><td>0.0</td></t<>		@ 50K	0.011	*	0.040	1.1	1.7	0.02	0.05	*		8.	*	*	0.003	0.0	
Event Start     Code		@ UL	0.014	*	0.055	1.3	2.1	0.02	0.07		1	1.	*	0.01	0.004	0.0	
CO [g/m]     (composite)     [g/m]     US061     [g/m]     [IS03]     [SC3]     [SC3]       RT     1.1     SFTP @.4000     miles     *     *     0.04     0.14     1.8     8.0     0.04     0.20     1.2     2.       D     10.0     SFTP @.4000     miles     *     *     0.04     0.14     1.8     8.0     0.04     0.20     1.2     2.       D     10.0     SFTP @.4000     miles     *	(	@ 50°F & 4K	0.009	*	0.080	0.4	1.7	0.02	0.05	*	1	6.	*	*	*	*	
CERT     STD     CE	CO [g/mī]								NMHC+1 (g/mi] [U								
Rt     1.1     SPTP @ willes     0.0     0.14     1.5     5.0     0.04     0.20     1.2     2.       TD     10.0     SFTP @ willes     • <t< td=""><td>@ 20°</td><td>F &amp; 50K</td><td></td><td></td><td>CERT</td><td>STD</td><td>CERT</td><td>STD</td><td>CERT</td><td>STD</td><td>CERT</td><td>STD</td><td>CERT</td><td>STD</td><td>CERT</td><td>ST</td></t<>	@ 20°	F & 50K			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	ST	
D   10.0   SFIP @ miles     Evaporative Family   3-Days Dlumal + Hot Soak (grams/test) @ UL (GRT state) @ UL (CRT State) @ UL (	ERT	. 1.1	SFTP @ 4	000 miles	*	*	.*	*	0.04	0.14	1.8	8.0	0.04	0.20	1.2	2.7	
Evaporative Family     (grams/fest) @ UL     (grams/fest) @ UL     (grams/fmile) @ UL     Recovery (grams/gallon) @ U       EBMXR0130N54     0.31     0.50     CERT     STD     CERT     S	STD	10.0	SFTP	@* miles	*	*	*	*	*	*	*	*	*	*	* .	*	
EBMXR0130N54     0.31     0.50     0.65     0.01     0.05     0.01     0.20       *	Eva	aporative Far	nily										Rec	n-Board i overy (gr	Refueling V ams/gallor	/apor a) @ UI	
EBM/R/0130N34     0.31     0.30     0.03     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01     0.01			CERT	ST	D	CERT S		TD	CERT		STD		CERT		STD		
Image: State in the intervent of the int	E	BMXR0130N	54	0.31	0.	50	*	0.65	.65	0.01		0.05		0.01		0.20	
* * * *   enot applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; LDT1=LDT_6000#GVWR,0-3750#LVW; LDT2=LDT_6000#GVWR,3751-5750#LVW; LDT4=LDT 6001-8500#GVWR;5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 1000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; LW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; U=warm-up catalyst; NAC=NOX adsorption catalyst; SCR-U/SCR-N= selective catalytic reduction-urea/ammonia; NH3OC=ammonia oxidation catalyst; TOX/PTOX= continuous/periodic trap oxidizer; HO2S/O2S=heated/oxygen sensor; AFS=(heated) air-fuel ratio sensor; NOXS= NOX sensor; RDQS=reducts tality sensor; EGR=exhaust gas recirculation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/M squential/ multiport fuel injection; DFI=direct fuel injection; TC/SC= turbo/super charge; CAC=charge air cooler; OBD (F)/(P)(B)=ful/partial/both on-board agnostic; DOR=direct ozone reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister, prefix 2=parallel; (2) suffix=series; CNG/LNG= impressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol ("15%"gasoline) Fuel; 2014 MODEL YEAR: VEHICLE MODELS INFORMATION MAKE MODEL YEAR: VEHICLE MODELS INFORMATION BMW 228i EBMXR0130N54 1 2 PC HCT Fu BMW 320i EBMXR0130N54 1 2 PC HCT Fu	*			*			*		*	*		*		-		*	
Image: State in the image: State in																	
DT3=LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 0000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; LVW=adjusted LVW; LEV=lvm emission vehicle; ULEV=utha LEV; SULEV=super ULEV; TWC/COC3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; U=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U/SCR-N= selective catalytic reduction-urea/ammonia; NH30C=ammonia oxidation catalyst; IDWPTOX= continuous/periodic trap oxidizer; H02S/02S=heated/oxygen sensor; AFS=(heated) air-fuel ratio sensor; NOXS= NOx sensor; RDQS=reductive ratify sensor; EGR=exhaust gas recirculation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/M quential/multiport fuel injection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both on-board agnostic; DOR=direct ozone reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG= mpressed/liquefied natural gas; LPG=liquefied petroleum gas; E85="85%" Ethanol ("15%" gasoline) Fuel;   VEHICLE TYPE   SPECIAL FEATURES   OBL     MMKE   MODEL   EVAPORATIVE FAMILY   ECS NO.   ENGINE NO.   VEHICLE TYPE   SPECIAL FEATURES   OBL     BMW   320i   EBMXR0130N54   1   2   PC   HCT   Fu	•		*			* *		*	*		*		* '		*		
MAKEMODELEVAPORATIVE FAMILYECS NO.SIZE (L)VEHICLE TYPESPECIAL FEATURESOBEBMW228iEBMXR0130N5412PCHCTFuBMW320iEBMXR0130N5412PCHCTFu	0000#G LVW=a VU=wart TOX/P uality se equentia	adjusted LVW m-up catalys TOX= continuensor; EGR= al/ multiport f ic; DOR=dire	5=MDV 100 /; LEV=low t; NAC=NO uous/period exhaust gas uel injection	01-14000#0 emission ve x adsorption lic trap oxidi	GVWR; EC ehicle; ULE n catalyst; S zer; HO2S/	S= emissi V=ultra Ll CR-U/SC 02S=hea	on control EV; SULEV R-N= sele ted/oxygen	system; s /=super L ctive cata sensor; /	TD= stan	dard; Cl C/OC=3 ction-ure ted) air-	ERT = cer -way/oxid a/ammor fuel ratio (belt drive	tification izing ca nia; NH3 sensor;	n; LVW=loa atalyst; ADS 30C=ammo NOXS= N	ded vehic TWC=ad nia oxida Ox senso	tion catalys	st:	
BMW     320i     EBMXR0130N54     1     2     PC     HCT     Fu	ompres	sed/liquefied	ect ozone re natural gas	n; DFI=direc educing; HC s; LPG=liqu	t fuel inject T=Hydroca efied petrol	ion; TC/S rbon Trap eum gas;	C= turbo/s ; BCAN=b E85="859	uper char leed carb 6" Ethanc	rger; CAC on caniste ol ("15%"g	=charge er; prefix asoline)	2=paralle Fuel;	er; OBD el; (2) s	(F)/(P)(B)= uffix=series	full/partia	l/both on-b	SFI/M	
	ompres		ect ozone re natural gas	n; DFI=direc educing; HC s; LPG=liqu 20	t fuel inject T=Hydroca efied petrol 14 MOD	ion; TC/S rbon Trap eum gas;	E85="85% E85="85% AR: VE	HICLE	MODE	ELS IN	2=paralle Fuel; FORM	ATIO	(F)/(P)(B)= uffix=series N HICLE	full/partia ; CNG/LI SPE	l/both on-b NG= CIAL	SFI/M	
BMW     320i xDrive     EBMXR0130N54     1     2     PC     HCT     Fu	ompres:	IAKE	ect ozone re natural gas	n; DFI=direc educing; HC s; LPG=liqu 20 MOE	t fuel inject T=Hydroca efied petrol 14 MOD	ion; TC/S rbon Trap eum gas;	C= turbo/s ; BCAN=b E85="859 AR: VE EVAPO FAI	HICLE	moder; CAC on caniste of (*15%"g MODE	ELS IN	2=paralle Fuel; FORM NGINE SIZE (L)	ATIO	(F)/(P)(B)= uffix=series N HICLE YPE	full/partia ; CNG/LI ; SPE FEAT	I/both on-b NG= CIAL URES	SFI/M oard	
	ompres: N E	MAKE BMVV	ect ozone re natural gas	n; DFI=direc educing; HC s; LPG=liqu 20 MOC	t fuel inject T=Hydroca efied petrol 14 MOD DEL Bi	ion; TC/S rbon Trap eum gas;	EST EURDO/S BCAN=b EST 859 AR: VE EVAPO FAN EBMXR	HICLE	rger; CAC on caniste ol ("15%"g MODE ECS NO	ELS IN	2=paralle Fuel; FORM NGINE SIZE (L) 2	er; OBD el; (2) s ATIO VE T	(F)/(P)(B)= uffix=series N HICLE YPE PC	full/partia ; CNG/LI ; SPE FEAT	I/both on-b NG= CIAL URES	OBD	

BMW	320i xDrive	EBMXR0130N54	1	2	PC	НСТ
BMW	328i	EBMXR0130N54	1	2	PC	нст
BMW	328i Gran Turismo	EBMXR0130N54	1	2	PC	нст
BMW	328i SPORT WAGON	EBMXR0130N54	1	2 ·	PC	нст
BMW	328i xDrive	EBMXR0130N54	1	2	PC	нст
BMW	328i xDrive GRAN TURISMO	EBMXR0130N54	1	2	PC	НСТ
BMW	328i xDrive SPORT WAGON	EBMXR0130N54	1	2	PC	нст
BMW	428i Convertible	EBMXR0130N54	1	2	PC	нст
BMW	428i Coupe	EBMXR0130N54	1	2	PC	НСТ
BMW	428i Coupe xDrive	EBMXR0130N54	1	2 .	PC	HCT

EBMXR0130N54

EBMXR0130N54

EBMXR0130N54

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PC

PC

PC

California Environmental Protection Agency

## @ Air Resources Board

#### BAYERISCHE MOTOREN WERKE AG

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New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 4 of 4

BMW	X1 sDrive28i	EBMXR0130N54	1	2	PC	HCT	Full
BMW	X1 xDrive28i	EBMXR0130N54	1	2	PC	НСТ	Full
BMW	X3 xDrive28i	EBMXR0130N54	1.	2	LDT2	НСТ	Full
BMW.	Z4 sDrive28i	EBMXR0130N54	1	2	PC	НСТ	Full