California Environmental Protection Agency		EXECUTIVE ORDER A-006-1826
AIR RESOURCES BOARD	GENERAL MOTORS LLC	New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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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 (mi		INTERMEDIATE IN-USE COMPLIANCE (*=N/A or full in-use; A/E=exh. / evap. intermediate in-use)		FUEL TYPE		
2013	DGMXV06.2089	Passenger Car	USEPA Bin 4 Counted as ARB LEV2	EXH / ORVR	EVAP	EXH	EVAP	Gasoline (Tier		
2010	DOM/2000.2000		ULEV	120K	150K	*	*	2 Unleaded)		
No.	ECS &	SPECIAL FEATURES	EVAPORATIVE	FAMILY (EV	DISPLACEMENT (L)					
1 2TWC(2), 2HO2S(2), SFI, OBD(F)			DGMXR	DGMXR0133880						
*			*	*				6.2		
*		•				1				

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, the evaporative emission standards, and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50⁰ 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).

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 California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended March 29, 2010 (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 that becomes, after MY2009, a large-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, independent low-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

BE IT FURTHER RESOLVED:

The listed vehicle models are federally certified, and are certified under the provisions of 13 CCR Section 1961(a)(14) and the incorporated test procedures.

BE IT FURTHER RESOLVED:

The manufacturer has elected to certify the test group listed above to section 1.(b) of the proposed California Environmental Label Specifications for 2009 and Subsequent Model Year Passenger Cars, Light Duty Trucks and Medium-Duty Passenger Vehicles, considered by the California Air Resources Board (ARB or the Board) at a public hearing conducted on January 26-27, 2012 (California Specifications). The aforementioned test group is certified conditionally upon final approval of the California Specifications. In the event the California Specifications do not become effective, the manufacturer agrees to immediately, upon notification by ARB, (1) cease use of the label meeting section 1.(b) of the California Specifications, and (2) place a label meeting the California Environmental Label Specifications for 2009 and Subsequent Model Year Passenger Cars, Light Duty Trucks and Medium-Duty Passenger Vehicles, adopted May 2, 2008, on vehicles in production.

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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 16 TM day of March 2012. FOR AGH Annette Hebert, Chief

Mobile Source Operations Division

California Environmental Protection Agency

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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.)

NMOG FLEET AVERAGE [g/mi]				NMOG or NMHC	CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitrogen; HCH0=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+ hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram											
CERT	STD	NMOG	NMHC	STD	mi=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure											
0.026	0.035	CERT [g/mi]	CERT [g/mi]	[g/mi]	CO [g/mi]		CERT	[g/mi]	CE	CHO [mg/		PM [g/I	/mi] STD	Hwy No	Ox [g/mi] STD	
	@ 50K	*	*		*	*	*	*	UE .		*	*	*	*	*	
	@ UL	0.046	*	0.070	1.0	2.1	0.02	0.04			11.	*	0.01	0.02	0.05	
6	@ 50°F & 4K	*	*	*	*	*	*	*			*	*	*	*	*	
CO [a/mi]				NMHC+NC								NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]		
	= & 50K			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
ERT	3.2	SFTP @ 4	000 miles		*	* .	*	0.07	0.14	0.5	8.0	0.05	0.20	0.6	2.7	
STD	10.0	SFTP	@ 120000 miles	0.06	0.63	*	*	*	*	0.5	11.1	*	*	0.6	3.7	
Eva	3-Days Diurnal + Ho Evaporative Family (grams/test) @							Running Loss (grams/mile) @ UL				On-Board Refueling Vapor Recovery (grams/gallon) @ UL				
			CERT	S	rD	CERT	S	TD	CERT		STD	CERT		STD		
DC	GMXR01338	80	0.22	0.	50	0.18	0.	65	0.000 0.05		0.05	0.01		0.20		
*		*		*		* *		*		* *		*	*			
	*		*		*	*			*		*		*		*	
	*		*		*	* *		•	*		* *		*	*		
= not ap	pplicable; UL	=useful life	; PC=passe	nger car; L	DI=light-	duty truck;	MDV=me	edium-dut	y vehicle	e; ECS= (emission	control sys	stem; ST	D= standar	d;	
ERT= c vay/oxidiz irea/amm AFS/HAF njection; F)/(P)(B)	pplicable; UL certification; L izing catalyst FS=air- fuel rr PAIR=pulse)=full/partial/ uefied petrole	VW=loade ; ADSTWC C=SCR-U/ atio sensor d AIR; SFI/ both on-boo	d vehicle we =adsorbing /SCR-N ami / heated AF /MFI= seque ard diagnosi :85="85%" E	eight; ALV TWC; WU nonia slip (S; NOXS ntia/ multip ic; DOR=(thanol (*15	W=adjuste =warm-up catalyst; C = NOx ser port fuel in direct ozor 5%"gasolir	ed LVW; LI catalyst; N TOX/PTO nsor; RDQ njection; DF ne reducing	EV=low en NAC=NOx X= continu S=reducta FI=direct fu g; prefix 2=	nission ve adsorptic Jous/perio nt quality Jel injectio =parallel;	hicle; U on cataly odic trap sensor; on; TC/3 (2) suffi	LEV=ultra st; SCR-I oxidizer; EGR=ex SC= turbo x=series;	a LEV; S U/SCR-N HO2S/O haust gas o/super c CNG/LI	ULEV=sup I= selective 2S=heated s recirculat harger; CA NG= comp	er ULE e catalyti d/oxyger tion; AIR C=char	V; TWC/OC ic reduction n sensor; secondary ge air coole	=3- - / air r: OBD	
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