Pursuant to the authority vested in the Air Resources Board by 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: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	AR ENGINE FAMILY		ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST	INTENDED SERVICE	ECS & SPECIAL FEATURES 3	DIAGNOSTIC 6			
				LPG	PROCEDURE	CLASS 2	TWC, HO2S(2), SFI, ECM	N/A			
2011			6.0	LFG	Otto	HDO					
	'ENGINE'S IDLE NS CONTROL	ADDITIONAL IDLE EMISSIONS CONTROL 5									
	N/A	N/A.									
ENGINE (ENGINE MODELS / CODES (rated power, in hp)										
6.0		GMC Savana 4500 / 1(300), Chevy Express 4500 / 1 (300), Workhorse Custom Chassis W42 / 2 (300)									
				R xyz=Title 13, California Code o	Regulations, Sect	ion xyz; 40 CFI	R 86.abc=Title 40, Code of Federal Regulation	s, Section 86.abc;			
14	=horsepower; kw=ki		,								
CMGLNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;											
L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto; ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; NAC=NOx adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm-											
un catalyst	DPF=diesel particul	n; TWC/	PTOX=periodic tran	ring catalyst; NAC=NUx adsorption	on catalyst; SCR-U	/ SCK-N=seled S/AFS=heated/s	air-fuel-ratio sensor (a.k.a., universal or linear (VU (prefix) =warm-			
TBI=throttle	body fuel injection;	SFI/MF=	sequential/multi port	fuel injection; DGI=direct gasolin	e injection; GCAR	B=gaseous carl	buretor, IDI/DDI=indirect/direct diesel injection	n; TC/SC=turbo/			
super charg	jer, CAC=charge air	cooler; E	GR / EGR-C=exhau	st gas recirculation / cooled EGR; (2) (suffix)≕in series;	PAIR/AIR=pulsed	d/secondary air i	injection; SPL=smoke puff limiter; ECM/PCM	=engine/powertrain			
SESS=en	igine shutdown syste	m (per 13	CCR 1956.8(a)(6)(/	A)(1); 30g=30 g/hr NOx (per 13 C			al combustion auxiliary power system; ALT=a (e.g., Otto engines and vehicles);	Itemative method			
				971): OBD=on-board diagnostic s			(

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.8 are in parentheses.).

in	NMHC		NOx		NMHC+NOx		со		PM:		нсно	
g/bhp-hr	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
STD	0.14	*	0.20	*	*	*	14.4	*	0.01	*	0.01	*
FEL	*	*	*	*	*	*	*	*	*	*	*	*
CERT	0.08	*	0.16	*	*	*	7.0	*	0.008	*	0.000	*
NTE	*		*		*		*		*		*	

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle, including RMCSET=ram mode cycle supplemental emissions testing; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-26)

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

Engines certified under this Executive Order must 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

110

Ánnette Hebert, Chief Mobile Source Operations Division