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

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified Executive Order G-45-9; as described below for use in diesel or incomplete medium-duty vehicles with a manufacturer's GVWR from 8501 to 14000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

as described below as the standards of t	OBD COMPLIANCE
MODEL ENGINE FAMILY STD PROCEDURE SECTION OF STREET STATES OF STATES OF STREET STATES OF	OBD(F)
Gasoline Otto ENGINE	COMPLIANCE OBD(F)
ENGINE MODELS / CODES (rated power, in hp)  ENGINE MODELS / CODES (rated power, in hp)  E-350: 7E418Q0500, 7E418Q0505, 7E418Q0506, 7E418Q0510, 7E418Q0511, 7E418R0500, 7E418R0505, 7E418R0506, 7E418R0510, 6.8  7E418R0511 (305 for all codes)	-
E-350: 7E418(Q0500, 1E4704000)	
Tills 43. California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulation	ns, Section 86.abc; (2004may26)
on Collifornia Code of Regulations, Section xyz, 40 CFR 33333	(220)

=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc (2004may26)
L=liter; hp=horsepower; kw=kilowatt;
CNG/LNG=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;

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 heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, 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 dual- and flexible-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel.)

icvers ! 1	ters ( ) and a			er the applicable 103th		NMHC+NOx				EURO	FTP	EURO
	NMHC		NOx		FTP EURO	FTP	EURO	.FTP	Lone	0.05	•	
	FTP	EURO	FTP	EURO	F1F		14.4		٠ .	·	0.03	<del></del>
	<del>                                     </del>		-	•	·	<u> </u>		<del>                                     </del>		Ţ <sup>—</sup> • ∣	*	
D		<del> </del>	<del></del>	*	0.35	·	<u> </u>	<del> </del>	<del></del>		0.00	<b>.</b>
L	·		ļ	+	0.26	*	2.6	<u> </u>				*
RT	•	•	·	<u> </u>			+	*	}	•		
	<del></del>				L	*			E Not to Eve	eeri emission lin	it; STD=standard e matter; HCHO=	or emission to

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=Euro III European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=European Steady-State Cyde; NTE=Not-to-Exceed emission limit; STD=standard or emission test procedure; EURO=European Steady-State Cyde; NTE=Not-to-Exceed emission test procedure; EURO=European State European European State European E

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 application at additional declared by the manufacturer and serves in lieu of an application at additional declared by the manufacturer and serves in lieu of an application at additional declared by the manufacturer and serves in lieu of an application at additional declared by the manufacturer and serves in lieu of an application at additional declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and serves in lieu of an application at a declared by the manufacturer and a declared by the manufac 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: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8501 to 14000 pounds and, therefore, shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8501-14000 pound GVWR).

BE IT FURTHER RESOLVED: The listed engine models have been certified to the Option 1 federal NMHC+NOx emission standard(s) listed above pursuant to 13 CCR 1956.1 or 13 CCR 1956.8.

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), 13 CCR 1968.2 (on-board diagnostic, full or partial compliance), 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. This Executive Order hereby supersedes Executive Order A-010-1381 dated September 19, 2006.

5 # day of March 2007. Executed at El Monte, California on this \_\_\_\_

> Annette Hebert, Chief Mobile Source Operations Division

CNG/LNG=compressed/fiquefied 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;

SULEV / ULEV / LEV=super ultra / ultra / low emission vehicle;

CSS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DF=cliesel particulate filter; HO2S/O2S=heated/oxygen sensor; GARB-gaseous carburetor;

GLSS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DF=cliesel particulate filter; HO2S/O2S=heated/oxygen sensor; GCARB-gaseous carburetor;

GLSS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DF=cliesel particulate filter; HO2S/O2S=heated/oxygen sensor; TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; SPL=smoke puff limiter;

Ind/DDI=indirect/direct diesel injection: TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas rectroulation; DGI=direct gasoline injection; DGI=direct