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 | ENGINE FAMILY | ENGINE SIZES (L) | FUEL TYPE 1 | STANDARDS & TEST PROCEDURE | INTENDED SERVICE | ECS & SPECIAL FEATURES 3 | DIAGNOSTIC 6 | | | | |
|-------------|-----------------------------|--|----------------------------------|----------------------------------|---------------------|--|--------------------|--|--|--|--|
| | | | | | CLASS 1 | DDI, TC, CAC, ECM, EGR, OC, | E14D | | | | |
| 2009 | 2009 9NVXH0570AGB | | Diesel | Diesel | MHDD | PTOX | EMD | | | | |
| | ENGINE'S IDLE | | ADD | TIONAL IDLE EA | ISSIONS CO | NTROL ⁵ | | | | | |
| | ESS | | | · N | Ά. | | | | | | |
| ENGINE (L | -) | | ENGINE MODE | LS/CODES (ra | ted power, in | hp) | | | | | |
| 9.3 | | GDT310 / GDT310 (310), GDT300 / GDT300 (300) | | | | | | | | | |
| * | | | | * | | | | | | | |
| =not applic | able; GVWR=gross vehicle v | weight rating; 13 CCF | Rxyz=Title 13, California Code o | f Regulations, Sect | ion xyz; 40 CF | R 86.abc=Title 40, Code of Federal Regulations | s, Section 86.abc; | | | | |
| =iiter; np= | norsepower; kw=kilowatt; hi | r=hour; | | | | =bi fuel; DF=dual/fuel; FF=flexible fuel; | | | | | |
| | | | to petrorediti gas, E65-6571 etr | anoriuei, mr-ittui | ribera.k.a. Dr | -billuer; DF=quartuer; FF=tiexible fuer; | | | | | |

L/M/H HDD=light/medium/heavy heavy-duty dieset; UB=urban bus; HDO=heavy duty Otto;

EMD=engine manufacturer diagnostic system (13 CCR 1971); OBD=on-board diagnostic system (13 CCR 1971.1);

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, 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 | 0.14 | 1 | . • | | * | 15.5 | 15.5 | 0.01 | 0.01 | * | * |
| FEL | - * | * | 1.70 | 1,70 | 1.7 | 1.7 | * | * | * | * | * | * |
| CERT | 0.00 | 0.00 | 1.59 | 1.20 | 1.6 | 1.2 | 0.5 | 0.00 | 0.001 | 0.000 | * | * |
| NTE | 0.21 | | 2.12 | | 2.1 | | 19.4 | | 0.02 | | * | |

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 lest cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogel CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; (Rev.: 2007-02-4)

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.

BEIT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [OTTO engines] and the incorporated 40CFR 86.007-15(m)(9).

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 day of December 2008.

> Annette Hebert, Chief Mobile Source Operations Division

Rophael Soonowitz

ECS=emission control system; TWC/OC=lhree-way/oxidizing catalyst; NAC=Nox adsorption catalyst; SCR-U / SCR-N=selective catalytic reduction – urea / – ammonia; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HO2s/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBi=throttle body fuel injection; SFI/MFi=sequential/multi port fuel injection; DGF=direct pasoline injection; GCARB=paseous carburetor, IDVDPI=indirect/direct diesel injection; TC/SC=turbo/ super charge; CAC=charge air cooler; EGR / EGR-C=exhaust gas recirculation / cooled EGR; PAIR/AIR=pulsed/secondary, air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain portion module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

ESS=engine shutdown system (per 13 CCR 1956.8(a)(6)(A)(1); 30g=30 g/hr NOx (per 13 CCR 1956.8(a)(6)(C): APS ≒internal combustion auxiliary power system; ALT≔alternative method (per 13 CCR 1956.8(a)(6)(D); Exempt=exempted per 13 CCR 1956.8(a)(6)(B) or for CNG/LNG fuel systems; N/A≂not applicable (e.g., Otto engines and vehicles);