

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-14-012;

**IT IS ORDERED AND RESOLVED:** The engine and emission control systems produced by the manufacturer are certified 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.

| MODEL YEAR                                                         | ENGINE FAMILY | EMISSION STD CATEGORY <sup>2</sup> | FUEL TYPE <sup>1</sup> | STANDARDS & TEST PROCEDURE | ENGINE SIZES (L) | ECS & SPECIAL FEATURES <sup>3</sup> | OBD COMPLIANCE |
|--------------------------------------------------------------------|---------------|------------------------------------|------------------------|----------------------------|------------------|-------------------------------------|----------------|
| 2015                                                               | FFMXE06.8AFA  | ULEV                               | Gasoline               | Otto                       | 6.8              | SFI, HO2S, 2WR-HO2S, TWC            | OBD (P)        |
| ENGINE MODELS / CODES (rated power, in hp)                         |               |                                    |                        |                            |                  |                                     | OBD COMPLIANCE |
| E350 Incomplete / DE418Q05, DE418R05, DE418S05 (305 for all codes) |               |                                    |                        |                            |                  |                                     | OBD (P)        |
|                                                                    |               |                                    |                        |                            |                  |                                     | *              |

\* =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; L=liter; hp=horsepower; kw=kilowatt;  
<sup>1</sup> 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;  
<sup>2</sup> SULEV / ULEV / LEV=super ultra / ultra / low emission vehicle;  
<sup>3</sup> ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); WR-HO2S=wide range oxygen sensor; TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; OBD(F) / (P) / (\$)=full / partial / partial with a fine / on-board diagnostic; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

Following are: 1) the FTP exhaust emission standards or family emission limit(s) as applicable under 13 CCR 1956.8; 2) the SET 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, in g/bhp-hr, for this engine family. "Diesel" CO, SET 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.) <sup>4</sup>

|      | NMHC |     | NOx  |     | NMHC+NOx |     | CO   |     | PM    |     | HCHO  |     |
|------|------|-----|------|-----|----------|-----|------|-----|-------|-----|-------|-----|
|      | FTP  | SET | FTP  | SET | FTP      | SET | FTP  | SET | FTP   | SET | FTP   | SET |
| STD  | 0.14 | *   | 0.20 | *   | *        | *   | 14.4 | *   | 0.01  | *   | 0.01  | *   |
| CERT | 0.10 | *   | 0.15 | *   | *        | *   | 7.0  | *   | 0.001 | *   | 0.000 | *   |
| NTE  | *    |     | *    |     | *        |     | *    |     | *     |     | *     |     |

<sup>4</sup> g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; SET=Supplemental Emissions Testing; NTE=Not-to-Exceed emission limit; 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;

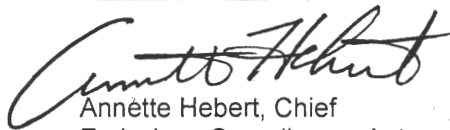
**BE IT FURTHER RESOLVED:** The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8501 to 14000 pounds and, therefore, shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8501-14000 pound GVWR).

**BE IT FURTHER RESOLVED:** 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.

Executed at El Monte, California on this 2 day of December 2014.

  
 Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division