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 as described below for use in on-road motor vehicles with a manufacturer's GWWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.


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 (TestProcedures); 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 llexible- 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 defeult operation permitted in 13 CCR 1956.8 are in
parentheses.).

| $\begin{aligned} & \text { in } \\ & \text { g/bhp-hr } \end{aligned}$ | NMHC |  |  |  | NMHC+NOX |  | co |  | PM |  | HCHO |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | FTP | EURO | FTP | EURO | FTP | EURO | FTP | EURO |  |  |  |  |
| STD | 0.14 | 0.14 | * | * | * | - | 155 |  | FTP | EURO | FTP | EURO |
| FEL | * | + | 1.35 | 1.35 | 1. | 13 | 15.5 | 15.5 | 0.01 | 0.01 | * | * |
| CERT | 0.01 | 0.000 | 1.12 | 0.89 | 1.1 | 0. | O 3 |  |  | * | * | * |
| NTE | 0.21 |  | $-202$ |  | 1.12 .0 |  | 19.4 |  | 0.02 |  | * | * |

 CO-carbon monoxide; PM=particulate matter; $H C H O=$ formaldehyde; $\quad$ FLamity errission limit; CERT=certivation level; NMHC/HC=non-methane/hydrocarbon; NOX=oxides of nitrogen;

BE ITFURTHER 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: Except in vehicle applications exempted per 13 CCR 1956.8(a)(6)(B), engines in this engine family certified under 13 CCR $1956.8(a)(6)(C)[30 \mathrm{~g} / \mathrm{hr}$ NOX] and section $35 . \mathrm{B} .4$ of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006, shall be provided with an approved "Certified Clean Idle" label that shall be affixed to the vehicle into which the engine is installed.

BE IT FURTHER RESOLVED: Engines in this engine family ("primary engines") may include the auxiliary power system (APS) described above for additional idie emissions control subject to the following stipulations. (A) Engine exhaust from the APS is routed directly into the exhaust system of the primary engine upstream of its diesel particulate matter aftertreatment device. And, (B) The manufacturer shall ensure that each primary engine so equipped with the APS is provided with an approved "Verified Clean APS" label to be affixed to the vehicle into which the primary engine is installed. The "Verified Clean APS" label shall conform to 13 CCR 2485(c)(3)(D) and section 35.B. 4 of the incorporated "California Exhaust Emissions Standards and Test Procedures for 2004 and Subsequent Model Heavy-Duty Diesel Engines and Vehicles" adopted Dec. 12, 2002, as last amended Sep. 1, 2006.

BE IT 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 40 CFR 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 controf warranty).

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending submission of additional information to justify the auxiliary emission control device (AECD) used for engine protection. The manufacturer must demonstrate that the use of the AECD is the minimum strategy necessary for engine protection. The manufacturer has until March 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through March 31, 2008; engines produced after the aforementioned effective date are deemed uncertified

BE IT FURTHER RESOLVED: The listed engine models are conditionally certified pending final approval of "Certified Clean Idle" and "Verified Clean APS" vehicle labels. The manufacturer has until March 31, 2008 to resolve concerns on this conditional certification. This Executive Order is effective through March 31, 2008; engines produced after this date are not covered by this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-0472 dated January 18, 2008.
Engines certified under this Executive Order must conform to all applicable California emission regulations.
The Bureau of Automotive Repair will be notifjed by copy of this Executive Order.
Executed at El Monte, California on this $\qquad$ day of March 2008.

Annette Hebert, Chief Mobile Source Operations Division
Engine Model Summary Template

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