| California Environmental Protection Agency AIR RESOURCES BOARD | FORD MOTOR COMPANY | EXECUTIVE ORDER A-010-1202 New Diesel or Incomplete Medium-Duty Vehicles Using Certified Engines |
|---|---|---|

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-02-003;

**IT IS ORDERED AND RESOLVED:** That the diesel or incomplete medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) from 8,501 to 14,000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

| ENGINE DESCRIPTION | | | | | | | |
|---|---|---|---|---|---|---|---|
| MANUFACTURER | MODEL YEAR | EXECUTIVE ORDER | ENGINE FAMILY | EMISSION STANDARD CATEGORY | ENGINE SIZE (liter) | FUEL TYPE (CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas) | STANDARDS & TEST PROCEDURE |
| FORD MOTOR COMPANY | 2004 | A-010-1201 | 4FMXH05.4TH5 | ULEV | 5.4 | Gasoline | Otto |

| Gasoline, LPG or Alcohol Vehicles Only | | VEHICLE MODEL YEAR | ON-BOARD DIAGNOSTIC | |
|---|---|---|---|---|
| | | 2004 | Full Compliance | |
| EVAPORATIVE FAMILY | FUEL TANK CAPACITY (gallons) | VEHICLE MAKE & MODELS (underlined models comply with LEV2 evaporative emission standards) | | ENGINE MODELS / CODES (rated power in horsepower, hp) |
| 4FMXE0160BAH | 18.4 / 40 | Ford F-350 Narrow Frame Chassis Cab 2WD/4WD | | 4F714N0B00, 4F714N0B05 (260 hp) |
| 4FMXE0160BBH | 29.6 | Ford F-250/F-350 Short Bed Delete 2WD/4WD | | 4F714G0B00, 4F714G0B05 (260 hp) |
| 4FMXE0160BBH | 37.4 | Ford F-250/F-350 Long Bed Delete 2WD/4WD | | 4F714F0B00, 4F714F0B05 (260 hp) |

The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) in grams per brake horsepower-hour (g/bhp-hr) for this engine family for non-methane hydrocarbon (NMHC) plus oxides of nitrogen (NOx) (NMHC+NOx), NMHC, carbon monoxide (CO) [except that "diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Section 86.091-23(c)(2)(i) in lieu of testing], particulate matter (PM), and formaldehyde (HCHO) (Title 13, California Code of Regulations, (13 CCR) Section 1956.8): (For flexible- and dual-fueled engines, the CERT values in brackets [ ] are those when tested on conventional test fuel.)

| * = not applicable [g/bhp-hr] | NMHC+NOx | NMHC | CO | PM | HCHO |
|---|---|---|---|---|---|
| (DIRECT) STANDARD | 1.5 | * | 14.4 | * | 0.050 |
| CORPORATE AVERAGE STANDARD | * | * | * | * | * |
| FAMILY EMISSION LIMIT (FEL) | * | * | * | * | * |
| CERTIFICATION LEVEL | 1.1 | * | 2.2 | * | 0.005 |

**BE IT FURTHER RESOLVED:** That 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:** That the listed engine models have been certified to the optional emission standards and test procedures in 13 CCR Section 1956.8 applicable to diesel or incomplete medium-duty vehicles with a GVWR from 8,501 to 14,000 pounds and, therefore, shall be subject to 13 CCR Section 2139(c) (in-use testing of engines certified for use in diesel or incomplete medium-duty vehicles with a 8,501-14,000 pound GVWR).

**BE IT FURTHER RESOLVED:** That the listed engine models have been certified to the Option 1 federal NMHC+NOx emission standard listed above pursuant to 13 CCR Section 1956.8.

**BE IT FURTHER RESOLVED:** That for the listed vehicle models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labels), 1968.1 (on-board diagnostic, full or partial compliance), 1976(b)(1)(B)-(C), or (F) {evaporative emission standards}, 2035 et seq. (emission control warranty), and 2235 [fill pipes and openings of motor vehicle fuel tanks]. (The braces { } are for gasoline, LPG or alcohol fueled vehicles only. The brackets [ ] are for gasoline or alcohol fueled vehicles only.)

Vehicles certified under this Executive Order shall 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 11TH day of June 2003.

Allen Lyons, Chief
Mobile Source Operations Division