

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

IT IS ORDERED AND RESOLVED: That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for

| No EVAPORATIVE  |                               |  | VEHICLE TYPE (PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; LVW=loaded vehicle weight; ALVW=adjusted LVW) MDV: 5.754.9.502 | Vehicle   | (Y (LEV=low emis  | sion EVAPORATIVE<br>USEFUL LIFE  | FUEL TYPE (CNG/LNG=compressed/ liquefied natural gas; LPG=liquefied petroleum gas Dual Fuel; LPG / Gasoline (Indolene)  |  |  |  |  |  |  |
|---|-------------------------------|--|---|---|---|--|---|--|--|--|--|--|--|
|   |                               | <u> </u>   | SPECIAL FEATURES  |   | ULEV  | 120K / 120K  |   |  |  |  |  |  |  |
|   |                               | 1  | LIVINGSION CONTROL SYSTEM   | MS (ECS)  | * = not applicable  | OC/TWC=oxidizing/3-way   |   |  |  |  |  |  |  |
| *   | *                             |  | 21WC(2), TWC, 2HO2S(  | 2), EGR, SFI,   | OBD (F)   | AFS/HAFS=air-fuel ratio sensor/heated AFS EGR=exhau-<br>gas recirculation AIR/PAIR=secondary air injection/pulse<br>AIR MFI/SFI= multiport fuel injection/sequential MFI   |   |  |  |  |  |  |  |
| *   |                               | 3  | *   |   |   |  |   |  |  |  |  |  |  |
| VAF   ECS   ENGINE   No.   SIZE (L)   1   1   5.4   *   *   *   * |                               | 4  |   |   |   |  |   |  |  |  |  |  |  |
|   |                               | Ę  | VEHICLE VEH   | ICI ES SUS I  |   | CAC=charge air cooler OBD (F) / (P)=full /partial on-boa diagnostic prefix 2=parallel (2) suffix=series  |   |  |  |  |  |  |  |
|   |                               |  | MAKES & MODELS STAN   |   |   |  |   |  |  |  |  |  |  |
|   |                               |  | Ford F-150 Pickup 2WD/4WD   |   |   |  |   |  |  |  |  |  |  |
|   |                               |  |   |   |   |  |   |  |  |  |  |  |  |
| *   | *                             | _  |   |   | *   |  |   |  |  |  |  |  |  |
| 9   | APOR<br>MILY (I<br>ECS<br>No. | 3G9XT05.460 APORATIVE MILY (EVAF) XE0155BAG  * * ECS ENGIN No. SIZE (I 1 5.4 * * | 3G9XT05.46CP  APORATIVE   No   No   No   No   No   No   No   N  | TEST GROUP  (PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; LVW=loaded vehicle weight; ALVW=adjusted LVW)  3G9XT05.46CP  MDV: 5,751-8,500 pounds ALVW  APORATIVE MILY (EVAF)  DXE0155BAG  1 | TEST GROUP  (PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; LVW=loaded vehicle weight; ALVW=adjusted LVW)  3G9XT05.46CP  MDV: 5,751-8,500 pounds ALVW  APORATIVE MILY (EVAF)  DXE0155BAG  1 | TEST GROUP  (PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; LVW=loaded vehicle weight; ALVW=adjusted LVW)  3G9XT05.46CP  MDV: 5,751-8,500 pounds ALVW  APORATIVE MILY (EVAF)  No. SPECIAL FEATURES & EMISSION CONTROL SYSTEMS (ECS)  2 2 * a 1 2TWC(2), TWC, 2HO2S(2), EGR, SFI, OBD (F)  2 3 * 4 * * ECS ENGINE NO. SIZE (L)  MAKES & MODELS  VEHICLES SUBJECT TO SFTP STANDARDS ARE UNDERLINED  Ford F-150 Pickup 2WD/ | TEST GROUP  (PS-passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; LVW=ioaded vehicle weight; ALVW=adjusted LVW)  3G9XT05.46CP  MDV: 5,751-8,500 pounds ALVW  APORATIVE MILY (EVAF)  No. SPECIAL FEATURES & SEMISSION CONTROL SYSTEMS (ECS)  2 TWC(2), TWC, 2HO2S(2), EGR, SFI, OBD (F)  3 TEST GROUP  (LEV=low emission vehicle; TLEV= transitional LEV; USEFUL LIFE (UL) (miles)  120K / 120K  120K / 120K |  |  |  |  |  |  |

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows (compliance with the 50 °F testing requirement (for TLEV, LEV, ULEV, SULEV) may have been met based on the manufacturer's submitted compliance plan in lieu of testing). Any debit in the manufacturer's "NMOG Fleet Average" (PC and LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required. (For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

| _ <u>A</u> | VERA                | FLE<br>GE [g | /mi]     | NMOG @ RAF=0.5 (1.00)<br>CH4 RAF = *                  |                |               | NMOG c                 | CH4=met   | HCHO-        | OG-non-Cr  | 14 orga           | nic gas              | NMHC:            | non-CH             | 4 hydrocar                | hon 60        |          |               |                  |
|------------|---------------------|--------------|----------|---|----------------|---------------|------------------------|-----------|--------------|--|-------------------|----------------------|------------------|--------------------|---------------------------|---------------|----------|---------------|------------------|
|            | ERT                 | S            | TD       |   | MOG<br>ERT     | NMHC<br>CERT  | NMHC<br>STD            | mg=millig | ram m        | formaldehyd<br>RL [g/mi]=r<br>ni=mile K:         | unning<br>=1000 n | ⁄i≕partic∈<br>loss C | KVK IO           | /gallon d          | ispensed =                | On-board      | efueling | 2/3 D [g/tes  | tj≃2/3 da        |
|            |                     | [g/mi]       |          | [g/mi]  | [g/mi]         | CERT          | [g/mi]                 | N         | OX [g/       | UX [g/mi]  |                   | CHO [m               | renheit<br>g/mi] | SFTP=supp<br>PM (g | Picting Ital 16           | ruerai test p | rocedure |               |                  |
|            |                     | @            | 50K      |   | 041<br>147)    | *             | 0.117<br>(0.195)       | 1.6       | 5.0          | 0.2  |                   | STD<br>0.6           | CE<br>0.         | RT                 | STD<br>11                 | CERT          | STD      | CERT          | Ox [g/mi]<br>STD |
| . 7        |                     |              | D UL     |   | 045<br>180)    | *             | 0.167                  | (1.3)     | (5.0<br>7.3  | 0.1  |                   | (0.6)                | (0.<br>0.        | 3)                 | (11)                      | *             | *        | 0.2<br>(0.02) | 1.2<br>(1.2)     |
| 4          | @                   | 50°F         | § 4K     |   | 022            | *             | (0.280)<br>0.234       | (1.8)     | (7.3)<br>5.0 | (0.1   | $\perp$           | (0.9)                | (1               |                    | 16<br>(16)                | *             | *        | 0.2 (0.04)    | 1.8              |
| C          | O [g/i              | mi]          | SFTP     | 1=@   | 4K (SUL        | EV, ULEV,     | NMHC+N                 | Ox [g/mi] |              | [g/mi]   |                   | 0.6<br>MHC+N         | 0.               | 3                  | 22                        | *             | *        | *             | (1.8)            |
| 2 2        | 20°F & 50K SFTP 2 = |              |          | LEV) or 50K (Tier 1, TLEV)<br>2 = @ UL (Tier 1, TLEV) |                | (comp<br>CERT | (composite)            |           | posite)      | e) [g/m  |                   | Ox<br>[06]           | CO               | [g/mi]<br>JS06]    | NMHC+NOx<br>[g/mi] [SC03] |               | co       | [g/mi]        |                  |
| CEF        |                     | 1.6<br>4.3)  |          |   | 4.7            | SFTP 1        | •                      | *         | CERT         | STD  | CEF               | रा !                 | STD              | CERT               |                           | CERT          | STD      | CERT          | STD              |
| STI        |                     | 2.5<br>2.5)  |          |   |                | SFTP 2        |                        |           |              | <del>                                     </del> |                   |                      | •                |                    | *                         | •             | *        | 1             | •                |
| ) UI       |                     |              | APOI     | RATIV   | E FAMI         |               | EVA                    | OD ATIVE  | *            | *  | •                 |                      | *                | *                  | *                         | *             | *        | -             |                  |
|            |                     | 3-D<br>1.3   | 2.       | D   | RL             | ORVR          | EVAPORATIVE<br>3-D 2-D |           | RL ORVR      |  | É                 | EVAPORATIVE FA       |                  |                    |                           |               | APORATI  | VE FAMIL      | V A              |
| ER.        |                     | (1.4)        | 2<br>(1. | 4)  | 0.01<br>(0.01) |               | •                      | •         | *            | *  | 3-D               | 2-                   | D                | RL                 | ORVR                      | 3-D           | 2-D      | RL            | ORVR             |
| TD         |                     | 2.5<br>(2.5) | (3.      |   | 0.05<br>(0.05) | •             | •                      | *         |              |  |                   | <u> </u>             |                  | <u>.</u>           | *                         | *             | *        | *             | *                |
| - ,.       |                     |              |          |   |                | : That fo     | <del></del> -          |           |              | 1  | *                 |                      | -                | *                  | *                         | *             |          | *             | *                |

BE IT FURTHER RESOLVED: That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 [emission control labels], 1968.1 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

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 26 \_ day of August 2002.

Allen Lyons, Chief

Mobile Source Operations Division