

Pursuant to the authority vested in California 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-14-012;

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 which certification is granted.

|             |            |  |                    | TEST GR                  | OUP IN                   | FOR    | ATION      | -   |                                      |   |
|-------------|------------|--|--------------------|--------------------------|--------------------------|--------|------------|---|--------------------------------------|---|
| MOD<br>YEA  | I T        | EST GROUP                              | VEHIC              | LE CLASS                 | ES)                      | an a n | FUEL C     | ATEGORY   |                                      | FUEL TYPE   |
| 202         | 0 LH       | YXV02.0BG6                             |                    | PC                       |                          |        |            | SINGLE FUEL<br>HICLE                                | enti i<br>Maria                      | GASOLINE  |
| 1.          | USEFUL     | LIFE (miles)                           | VE                 | HICLE EMISS              | SION C                   | ATEC   | ORY        | INTERIM / INT                                       | ERME                                 | DIATE IN-USE STD  |
| EX          | H/ORVR     | EVAP                                   |                    | FTP                      |                          | SF     | ГР         | FTP -   | 1.80%                                | SFTP  |
| 1           | 50000      | 150000                                 | LEV3               | ULEV125                  | LEV                      | 3 CO   | MPOSITE    | 11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.             | <u> 1</u> 1 1 1 1                    | না দিনা প <b>ট প্</b> ৰিয়াল গ                          |
| SP          | ECIAL FE   |  | HAUST EMISSI       | ON CONTRO                | DL                       | 1.24   | OBD S      | TATUS   | ENG                                  | INE DISPLACEMENT<br>(L)                                 |
| 1           | WU-        | TWC, WR-HO2                            | S, DFI, HO2S       | , TC, CAC                |                          | 1 a    | FULL       | ★ The ★ The Print                                   |                                      | 한다. 이야지 않는 다. 나는 것                                      |
| *           |            | ······································ | *                  |                          |                          | P.     | ARTIAL     | ALL MODELS  |                                      | 2.0   |
| *           | 3          |  | *                  |                          | s o v Ango carendar voz. |        | TIAL WITH  | *   | an di Galeria da                     |   |
|             |            | E                                      | APORATIVE &        | REFUELING                | G (EVA                   | P/OR   | VR) FAMILY | INFORMATION   |                                      | -   |
| EV          | AP / ORV   | R FAMILY                               | EVAPORATIV         | E STD CATE               | GORY                     |        |            | SSION STD<br>E CLASS                                | SPE                                  | ECIAL FEATURES  |
|             | LHYXR01    | 10BGE                                  | I                  | LEV 2                    |                          |        | P          | C   |                                      | *   |
|             |            | · · · · · · · · · · · · · · · · · · ·  |                    | EMISSION C               | REDIT                    | INFC   | RMATION    |   |                                      |   |
|             | REDIT FO   | X FLEET AVE.<br>OR EXTENDED<br>RRANTY  |                    | REDIT FOR M<br>ZERO-EVAR |                          |        |            |   | OPTIONAL EXH. STD<br>FOR WORK TRUCKS |   |
|             | -          | N                                      | i.                 | N                        |                          |        |            | N   |                                      | N   |
|             |            |  | NMOO               | G AND FLEE               | TAVE                     | RAGE   | INFORMA    | TION  |                                      |   |
| NMOG<br>RAF | CH4<br>RAF | FTP<br>NMOG/NMHC<br>RATIO              | HCHO/NMHC<br>RATIO | NMOG+NO<br>PC+LDT        |                          |        | /) LDT     | +NOX FLEET ST<br>(3751 LVW-8500<br>R) + MDPV (g/mi) | N                                    | OG+NOX FLEET STD<br>/IDV (10,001-14,000<br>GVWR) (g/mi) |
| *           | *          | 1.10                                   | *                  |                          | 0.065                    |        |            | 0.074   |                                      | *   |

See the Attachment for Vehicle Models, Evaporative Family, Engine Displacement, Emission Control Systems, Phase-In Standards, OBD Compliance, Emission Standards and Certification Levels, and Abbreviations. (As applicable, heavy-duty vehicles (HDV) over 14,000 pounds in GVWR listed in this Executive Order are certified to the requirements in 13 CCR Section 1961.2 applicable to MDV pursuant to 13 CCR Section 1956.8(c)(3) or 13 CCR Section 1956.8(h)(5), as applicable.)

CALIFORNIA AIR RESOURCES BOARD

### HYUNDAI MOTOR COMPANY

Executive Order: A-254-0416 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 2 of 4

中央口底的书名 新建和加利德地的工具成的 化物

## BE IT FURTHER RESOLVED:

The exhaust and evaporative emission standards and the certification emission levels for the listed vehicles are as listed on the Attachment. Compliance with the 50° Fahrenheit testing requirement may have been met based on the manufacturer's submitted compliance plan in lieu of testing. Any debit in the manufacturer's fleet average compliance requirement for NMOG+NOx or Vehicle Equivalent Credit (13 CCR Sections 1961.2(b)(1), 1961.2(b)(3), or 1961.2(c) (3), and the incorporated test procedures, as applicable), or Greenhouse Gas Emissions (13 CCR Section 1961.3, or 17 CCR Section 95663, and the incorporated test procedures, as applicable), for PC, LDT, MDPV or MDV shall be equalized as required.

### BE IT FURTHER RESOLVED:

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], 1968.2 [on-board diagnostic, full or partial compliance], 2035 et seq. [emission control warranty], 2235 [fuel tank fill pipes and openings] (gasoline and alcohol fueled vehicles only), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California 2015 and Subsequent Model Criteria Pollutant Exhaust Emission Standards and Test Procedures and 2017 and Subsequent Model Greenhouse Gas Exhaust Emission Standards and Test Procedures for PC, LDT and MDV).

TET GROUP BUCHWARD

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 Zurril day of April 2019.

Allen Lyons, Chief Emissions Compliance, Automotive Regulations and Science Division

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| n an an Andreas (1994) and an                    | an a  | $(\frac{1}{2}, \alpha) = (1, 1, 2, \dots, 2, 2, 2, \dots, 2, 2, 2, \dots, 2, 2, \dots, 2, 2, \dots, 2, 2, \dots, 2, $ | nen son son and a son a | en en estantido de sur productivação de secondade de secondade de secondade de secondade de secondade de second<br>15.2 | Robert States Sector    | adaerer ees o |
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HYUNDAI MOTOR COMPANY Executive Order: A-254-0416 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

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# EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F)

CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: carbon monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactivity adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running loss; ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: gram; mg: milligram; mi: mile; K: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP

|          | FUE                  | LIYPE                             | 1. (                                  |              |  |          | き。<br>- 111 - 大内部       |           |           |                               |           |                   |
|----------|----------------------|-----------------------------------|---------------------------------------|--------------|--|----------|-------------------------|-----------|-----------|-------------------------------|-----------|-------------------|
|          |                      | alto selas<br>Giuda de se<br>Alta | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | S+NOx<br>mi) | 10 A A A A A A A A A A A A A A A A A A A | O<br>mi) | 1. 1. 1. 1. 1. 2. 1. 0. | Ox<br>mi) |           | CHO<br>g/mi)<br>STD<br>*<br>4 |           | PM<br>/mi)        |
|          |                      | dia ny s                          | CERT                                  | STD          | CERT                                     | STD      | CERT                    | STD       | CERT      | STD                           | CERT      | STD               |
| FTP@50K  |                      | * * ****                          | *                                     | *            | *  | *        | *                       | *         | *         | *                             | *         | *                 |
| FTP@UL   |                      | OLINE-<br>R3 E10                  | 0.059                                 | 0.125        | 0.2                                      | 2.1      | * *                     | *         | *         | 4                             | *         | 0.01              |
| 50°F @4K |                      | OLINE-<br>R3 E10                  | 0.053                                 | 0.250        | 0.1                                      | 2.1      | *                       | *         | *         | 16                            |           |                   |
|          |                      | stept in the                      | 8 - 11 (11)                           |              |  |          | NN                      | IOG+NC    | x (g/mi)  | 1200                          | CO (g/m   | i)                |
|          | 后 <b>发展</b> 。<br>马尔特 |                                   | Sec. 19                               | FUEL TYP     | Έ.                                       |          | CE                      | RT        | STD       | CEF                           | RT        | STD               |
| HWFET @  | 50K                  | an e ta                           | n na shekaran<br>K                    | *            |  |          | ***                     |           | ****      | destada-pri                   | en and an | in her bler i ver |
| HWFET @  | UL                   | te e trast                        | GASO                                  | LINE-TIE     | R3 E10                                   |          | 0.0                     | 030       | 0.125     | 规编程                           |           |                   |
| 20°F @ ! | 50K                  | COLD                              | CO E10 RI                             | EGULAR G     | ASOLINE                                  | (TIER3)  |                         |           | Sec. Film | 0.                            | 3         | 10.0              |

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

|                        |                             |  | US06   |   | SC03   |  | COM   | POSITE   | in a seg   |
|------------------------|-----------------------------|--|--|---|--|--|---|--|--|
| FUEL TYPE              |                             | NMOG+NOx<br>(g/mi)                         | CO<br>(g/mi)   | PM<br>(mg/mi)   | NMOG+NOx<br>(g/mi)   | CO<br>(g/mi)   | NMOG+NOx<br>(g/mi)  | CO<br>(g/mi)   | PM<br>(mg/mi)  |
| *                      | CERT                        | *  | *  |   | *  | *  |   |  |  |
|                        | STD                         | *  | *  |   | *  | *  |   |  |  |
|                        | CERT                        | *  | *  | *   | *  | *  | 0.067   | 0.4  | *  |
| GASOLINE-<br>TIER3 E10 | STD                         | *  | *  | *   | *  | *  | 0.083   | 4.2  | *  |
| ÷.,                    | BIN                         |  |  |   |  | ALC: N   | 0.180   |  | 1. 小小  |
| WH                     | OLE VE                      | HICLE EVAPOR                               | ATIVE EM   | ISSION STAN   | NDARDS AND   | CERTIFIC   | ATION LEVELS  | 5  |  |
|                        |                             | V  | VHOLE VE   | HICLE EVAP  | ORATIVE TES  | TING   |   |  |  |
|                        | *<br>GASOLINE-<br>TIER3 E10 | GASOLINE-<br>TIER3 E10<br>GASOLINE-<br>BIN | (g/mi)   * CERT   STD *   GASOLINE-<br>TIER3 E10 STD   STD *   BIN * | FUEL TYPE NMOG+NOx<br>(g/mi) CO<br>(g/mi)   * CERT *   STD * *   GASOLINE-<br>TIER3 E10 STD *   BIN STD * | FUEL TYPE NMOG+NOx<br>(g/mi) CO<br>(g/mi) PM<br>(mg/mi)   * CERT * *   STD * * *   GASOLINE-<br>TIER3 E10 STD * *   BIN Image: Stop state stat | FUEL TYPE NMOG+NOx<br>(g/mi) CO<br>(g/mi) PM<br>(mg/mi) NMOG+NOx<br>(g/mi)   * CERT * *   STD * * *   GASOLINE-<br>TIER3 E10 STD * *   BIN * * * | FUEL TYPENMOG+NOX<br>(g/mi)CO<br>(g/mi)PM<br>(mg/mi)NMOG+NOX<br>(g/mi)CO<br>(g/mi)*CERT****STD*****GASOLINE-<br>TIER3 E10STD****BIN··**** | FUEL TYPE     NMOG+NOx<br>(g/mi)     CO<br>(g/mi)     PM<br>(mg/mi)     NMOG+NOx<br>(g/mi)     CO<br>(g/mi)     NMOG+NOx<br>(g/mi)       *     CERT     *     *     *     *     *       STD     *     *     *     *     *     *       GASOLINE-<br>TIER3 E10     STD     *     *     *     *     0.067       BIN     *     *     *     *     *     0.083       BIN     IO     IO     IO     IO     0.180 | FUEL TYPE     NMOG+NOx<br>(g/mi)     CO<br>(g/mi)     PM<br>(mg/mi)     NMOG+NOx<br>(g/mi)     CO<br>(g/mi)     NMOG+NOx<br>(g/mi)     CO<br>(g/mi)       *     CERT     * <td< td=""></td<> |

|                       |                                  |          |         |          |         |                                |             |                                |           |                                    | 1    |
|-----------------------|----------------------------------|----------|---------|----------|---------|--------------------------------|-------------|--------------------------------|-----------|------------------------------------|------|
| EVAPORATIVE<br>FAMILY | FUEL TYPE                        | 3        | DHS (g/ | (test) ( | DUL     | 2Dł                            | IS (g/test) | @ UL                           | F         | RL (g/mi) @                        | ≬ UL |
|                       |                                  | CER      | RT S    | TD       | FEL     | CERT                           | STD         | FEL                            | CE        | RT                                 | STD  |
| LHYXR0110BGE          | GASOLINE -<br>CA PHASE 2         | 102      | 4 0     | . 50     | *       | 0.29                           | 0.65        | *                              | 0.        | 02                                 | 0.05 |
| ORVR / FU             | EL ONLY / CAN                    | NISTER   | BLEED   | EVAP     | ORATIVE | EMISSION                       | STANDA      | RDS AND                        | CERTIFICA | TION LEV                           | ELS  |
| 140 D.                |                                  |          |         |          |         | FUEL C                         | ONLY EVAP   | & CANIS                        | TER BLEE  | D                                  |      |
| EVAPORATIVE<br>FAMILY | ORVR (g/g                        | allon) @ | . •     |          |         | 3DHS RIG TEST<br>(g/test) @ UL |             | 2DHS RIG TEST<br>(g/test) @ UL |           | BLEED CANISTE<br>TEST (g/test) @ 4 |      |
|                       | FUEL TYPE                        | CERT     | STD     |          |         | CERT                           | STD         | CERT                           | STD       | CERT                               | STD  |
| LHYXR0110BGE          | GASOLINE -<br>TIER 2<br>UNLEADED | 0.06     | 0.20    |          | *       | *                              | *           | *                              | *         | · *                                | *    |

| A C.   | ALIFORN<br>RESOURCES BO   | IA  | JNDAI MOTOI<br>COMPANY   | R New   | Executive Order:<br>Passenger Cars, Ligh<br>Med  | nt-Duty T<br>lium-Duty   | rucks and  |
|--|---|---|--|---|--|--|--|
| EF   | FECTIVE LEAK DIA  | METER STAN  | DARD AND   | CERTIFICATIO  | N LEVEL (INCHES  | )  |  |
|  |   | FAMILY  |  | CERT  | S  | TD   |  |
| 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1   | non an ann an a  | *   | une the market property of the   | id a solet degrees (1).<br>Id a solet degrees (1).  | and the second   |  | ter en fransjere a   |
| STWC: adsorbing<br>RC/SCR-N or SCF<br>ated/oxygen senso<br>QS: reductant qua<br>condary air injectio<br>ect/indirect fuel inje<br>as on-board diagno<br>fix: series; CNG/LI<br>D: "10%" ethanol ('<br>atinuously variable<br>comated manual-se | LEV: super ULEV; ZEV<br>TWC; HAC: HC adsor<br>RC-NH3: selective cata<br>rap oxidizer; DPF: dies<br>or; WR-HO2S or AFS: v<br>ality sensor; NH3S: am<br>n (belt driven)/(electric<br>ection; TC/SC: turbo/su<br>ostic; DOR: direct ozon<br>NG: compressed/liquef<br>'90%"gasoline) fuel; A:<br>transmission; SCV: se<br>electable transmission; | bing catalyst; WU<br>alytic reduction-ur<br>el particulate filte<br>wide range/linear<br>monia sensor; EC<br>driven); PAIR: p<br>uper charger; CA<br>ne reducing; HCT<br>fied natural gas; I<br>automatic (with l<br>electable continuc<br>OT: other transn | J: warm-up cal<br>rea/ammonia;<br>er (active); GPF<br>/heated air-fue<br>GR: exhaust ge<br>ulsed AIR; SFI<br>C: charge air c<br>: hydrocarbon<br>LPG: liquefied<br>lockup); M: ma<br>pusly variable t<br>nission; AER: | talyst; NAC: NOx<br>NH3OC: ammonia<br>F: PM filter for spa<br>el ratio sensor; NC<br>as recirculation; E<br>I/MFI: sequential/r<br>cooler; FFH: fuel fi<br>trap; BCAN: bleed<br>petroleum gas; Et<br>anual transmission; AM:<br>all-electric range; | adsorption catalyst; S<br>a oxidation catalyst; C<br>rrk-ignited engine; HO<br>XS: NOx sensor; PM<br>GRC: EGR cooler; Al<br>nultiport fuel injection<br>red heater; F/P/\$: full<br>d carbon canister; pre<br>85: "85%" ethanol ("1<br>a; SA: semi-automatic<br>automated manual tr<br>EAER: equivalent AE | CR-U or<br>TOX/PT(<br>2S/O2S:<br>S: PM se<br>R/AIRE:<br>DFI/IFI:<br>/partial/pa<br>fix 2: par<br>5%"gasol<br>transmissi<br>ansmissi<br>R; PHEV | DX:<br>nsor;<br>artial with<br>allel; (2)<br>ine) fuel;<br>sion; CV<br>on; AMS |
| orid electric vehicle<br>ne/select models  | e; NMOG + NOx Fleet /   | Ave. Credit for Ex  | xtended vvaria   | inty. N – no credit   |  |  |  |
| orid electric vehicle<br>ne/select models  | 2020 MODEL  | 2, 27   |  |   |  | EXH  | OBD  |
| rid electric vehicle<br>ne/select models   | 2020 MODEL `  | YEAR: VE  |  |   | ORMATION<br>EVAPORATIVE  | EXH  | OBD<br>P   |
| orid electric vehicle<br>ne/select models<br>MAKE  | 2020 MODEL  | YEAR: VEI   | HICLE M  | ODELS INF<br>TRANS TYPE<br>M6   | ORMATION<br>EVAPORATIVE<br>FAMILY  | EXH<br>ECS   | 1997 - 1892 (* 1920)<br>1  |
| MAKE   | 2020 MODEL<br>MODEL<br>VELOSTER N   | YEAR: VEI   | HICLE M<br>ENGINE (L)<br>2.0   | ODELS INF<br>TRANS TYPE<br>M6   | ORMATION<br>EVAPORATIVE<br>FAMILY<br>LHYXR0110BGE  | EXH<br>ECS   | 1997 - 1892 (* 1917)<br>1  |
| MAKE   | 2020 MODEL<br>MODEL<br>VELOSTER N   | YEAR: VEI   | HICLE M<br>ENGINE (L)<br>2.0   | ODELS INF<br>TRANS TYPE<br>M6   | ORMATION<br>EVAPORATIVE<br>FAMILY<br>LHYXR0110BGE  | EXH<br>ECS<br>1  | 1997 - 1892 (* 1920)<br>1  |
| MAKE   | 2020 MODEL Y<br>MODEL<br>VELOSTER N   | YEAR: VEI   | HICLE M<br>ENGINE (L)<br>2.0   | ODELS INF<br>TRANS TYPE<br>M6   | ORMATION<br>EVAPORATIVE<br>FAMILY<br>LHYXR0110BGE  | EXH<br>ECS<br>1  | 1997 - 1892 (* 1992) - 1   |
| MAKE<br>HYUNDAI  | 2020 MODEL Y<br>MODEL<br>VELOSTER N   | YEAR: VEI   | HICLE M<br>ENGINE (L)<br>2.0   | ODELS INF<br>TRANS TYPE<br>M6   | ORMATION<br>EVAPORATIVE<br>FAMILY<br>LHYXR0110BGE  | EXH<br>ECS<br>1  | P  |
| MAKE<br>HYUNDAI  | 2020 MODEL Y<br>MODEL<br>VELOSTER N   | YEAR: VEI   | HICLE M<br>ENGINE (L)<br>2.0   | ODELS INF<br>TRANS TYPE<br>M6   | ORMATION<br>EVAPORATIVE<br>FAMILY<br>LHYXR0110BGE  | EXH<br>ECS<br>1  | P  |
| MAKE<br>HYUNDAI  | 2020 MODEL Y<br>MODEL<br>VELOSTER N   | YEAR: VEI   | HICLE M<br>ENGINE (L)<br>2.0   | ODELS INF<br>TRANS TYPE<br>M6   | ORMATION<br>EVAPORATIVE<br>FAMILY<br>LHYXR0110BGE  | EXH<br>ECS<br>1  | <b>P</b>   |