

Executive Order: A-254-0459

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 1 of 4

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-19-095;

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 GROUP INFORMATION | | | | | | | | | | | | |
|---|--|--------------|-----------------------------|---------------------|-------------|--------------|--------------------------------------|--------------------------------------|----------------------|--|-------------------------|--|--|
| MODI | I T | EST GROUP | | VEHICLE CLASS(ES) | | | | FUEL CATEGORY | | | FUEL TYPE | | |
| 2021 MHYXV01.6EC5 PC | | | | | PC | | DEDICATED SINGLE FUEL VEHICLE | | | GASOLINE | | | |
| | USEFUI | LIFE (miles) | | VEH | IICLE EMISS | ION C | ATE | GORY | INTERIM / IN | ITE | ERMEDIATE IN-USE STD | | |
| EX | H/ORVR | EVAP | | FTP SFT | | | TP | FTP | | SFTP | | | |
| 150000 150000 | | | | | ULEV70 | LEV | V 3 COMPOSITE * | | | | PM | | |
| SPECIAL FEATURES & EXHAUST EMISSION CON- SYSTEMS | | | | | | L | | OBD STATUS ENGINE D | | | ENGINE DISPLACEMENT (L) | | |
| DFI, WR-HO2S, HO2S, WU-TWC, TWC, TC, CAC, EGR, EGRC | | | | | | c, | | FULL | ALL MODELS | | | | |
| * | * * | | | | | | P | ARTIAL | * | 71 | 1.6 | | |
| * | * * | | | | | | 1 | TIAL WITH | н * | | | | |
| | EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION | | | | | | | | | | | | |
| EVAP / ORVR FAMILY EVAPO | | | | | STD CATE | STD CATEGODY | | | SSION STD E CLASS | | SPECIAL FEATURES | | |
| MHYXR0133ECG LEV 3 OPTION2 | | | | | | | | I | HCT | | | | |
| | | | | | EMISSION CI | REDIT | INFO | ORMATION | | | | | |
| | NOG+NO REDIT FO WAR | | EDIT FOR NON-PZEV ZERO-EVAP | | | NMOG C | REDIT FOR DO | OPTIONAL EXH. STD FOR WORK TRUCKS | | | | | |
| N N | | | | | | | | N N | | | | | |
| NMOG AND FLEET AVERAGE INFORMATION | | | | | | | | | | | | | |
| MINIOC CUA : | | | | NMOG+NO PC+LDT (| | | V) LDT (3751 LVW-8500 MDV (10,001-14 | | | NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi) | | | |
| * * 1.10 * 0.058 | | | | | | | 0.065 | .065 * | | | | | |

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.)



Executive Order: A-254-0459

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

Page 2 of 4

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).

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 on this ______day of July 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division



Executive Order: A-254-0459 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 3 of 4

ATTACHMENT

| | EVU | VIIC. | TANI |) EV | ADOI | O A TIV | /E ENAIG | 11710 | OTA | NDADI | 20.41 | 2000 | 1210 | 1 = 101 | | | | |
|-----------------|----------------|--------------------------|-------------|--|--------------------------|----------------------|---|--|--------------------|--------------------------------|-----------------------------|----------------|-----------------------------|-----------|-------|--------------|-------------------------|--|
| | EXI | | - | The second second | The second second second | The same of the same | and the same of the same of the same of | The second secon | - | A STATE OF THE PERSON NAMED IN | | D CERT | | | | ELS | | |
| | FU | EL TY | | CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO: call monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; PM: particulate matter; RAF: reactive adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 days diurnal+hot-soak; RL [g HC/mi]: running location of the control of the contro | | | | | | | | | rity oss: | | | | | |
| | | | | NMOG+NOx (g/mi) | | | | CO (g/mi) | | | NOx (g/mi) | | HCH (mg/r | | | PM (g/mi) | | |
| | | | | CEF | RT | STD | CERT | ST | D | CERT | STD | CER | T | STD | CE | RT | STD | |
| FTP@5 | 0K | * | | * | | * | * | * | | * | * | * | | * | | | * | |
| FTP@l | TI | SOLIN ER3 E | 10 | 0.0 | 33 (| 0.070 | 0.3 | 1. | 7 | * | * | * | | 4 0.001 | | 001 | 0.003 | |
| 50°F @ | ALCI | K GASOLINE- TIER3 E10 | | 0.0 | 25 (| 0.140 | 0.1 | 1. | 7 | * | * | * | | | | | | |
| | | | | | FU | EL TY | PE | | | | | Ox (g/mi) | | | | g/mi) | | |
| | | - | | | | | | | | - | CERT ST | | \dashv | CER | RT S | | STD | |
| HWFE | T @ 50k | | | | | * | | | | - | * * | | _ | | | | | |
| HWFE | T@UL | | | G | ASOLIN | E-TII | ER3 E10 | | | 0. | 0.018 0.0 | |) | | | | | |
| 20°F | @ 50K | C | OLD C |) E1 | REGU | JLAR (| GASOLIN | E (TIE | R3) | | | | | 0.4 | | | 10.0 | |
| | | | 5 | SFTP | EXHA | JST E | MISSION | STAND | ARDS | AND C | ERTIFIC | ATION LE | VEL | .s | | | | |
| | | | | US06 | | | | | | SC03 | | | | COMPOSITE | | | | |
| | FUEL | FUEL TYPE | | | | - | CO | 1 | | NMOG+NOx | | | | MOG+NOx | | CO | PM | |
| | | | CERT | | (g/mi) | | (g/mi) | (g/mi) (mg/mi) * | | 1 | (g/mi) * | | | (g/mi) | (9 | /mi) | (mg/mi) | |
| @ 4K | * | * | | OERT | | * | | | - | * | * | | | | | - | | |
| | | | STD | - | * | | * | + | 3 | - | * | * | | 0.026 | 5 0.4 | | * | |
| | GASOLINE- | | CER | - | | - | | + | | - | | | | | - | | | |
| @ UL | | TIER3 E10 ST | | | * | | * | | 6 | | | | 4 | .2 | * | | | |
| | | BIN | | | | | | | | | | _ | 0.070 | | | | | |
| | | WH | IOLE \ | /EHIC | LE EV | | | | | | | ERTIFICA | OITA | N LEVEL | _S | | | |
| EVAP | UEL T | YPF | 3 | | | HOLE VEHICLE EVAP | | | 2DHS (g/test) @ UL | | | RL (g/mi) @ UL | | | UL | | | |
| FA | MILY | Y | | ,,, | | STD | | | CERT ST | | FEL | | CERT | | STD | | | |
| MANABULSSECCI | | ASOLI LEV3 | NE- 0 196 0 | | | 0.300 | | | 184 | 0.300 | * | | 0.00 | | | 0.05 | | |
| (| ORVR / I | FUEL | ONLY | CAN | IISTER | BLEE | D EVAPO | PRATIV | E EMI | SSIONS | STANDA | RDS AND | CEF | RTIFICAT | TION | LEVE | LS | |
| | | | | | | | | | | | JEL ONLY EVAP & CA | | | | | | | |
| | ORATIV MILY | | | R (g/gallon) @ UL | | | FUEL | | | | HS RIG TEST g/test) @ UL | | 2DHS RIG TI (g/test) @ l | | | | CANISTER /test) @ 4K | |
| | | FL | JEL TY | PE | CERT | STD | | | CE | ERT | STD | CERT | | STD | CERT | | STD | |
| I MEAABULSSECCI | | SOLIN ER3 E | | 0.01 | 0.20 | 1 1 | LINE- 3 E10 | | * * | | * | | * | 0.0 | 02 | 0.020 | | |



Executive Order: A-254-0459

New Passenger Cars, Light-Duty Trucks and

Medium-Duty Vehicles

Page 4 of 4

| EFFECTI\ | /E LEAK DIAMETER STA | NDARD AND CERTIFICATION L | EVEL (INCHES) |
|--------------------|----------------------|---------------------------|---------------|
| EVAPORATIVE FAMILY | LEAK FAMILY | CERT | STD |
| MHYXR0133ECG | MHYXR0133ECG-DN1 | 0.00 | 0.02 |

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: .DT<6000#GVWR,3751-5750#LVW; LDT3: LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4: LDT 6001-8500#GVWR,5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: mediumduty passenger vehicle; HDV: heavy-duty vehicle; ECS: emission control system; CERT: certification; STD: standard; FEL: family emission limit; GVWR: gross vehicle weight rating; LVW: loaded vehicle weight; ALVW: adjusted LVW; LEV: low emission vehicle; ULEV: ultra LEV; SULEV: super ULEV; ZEV: zero-emission vehicle; TZEV: transitional ZEV; TWC/OC: 3-way/oxidizing catalyst; ADSTWC: adsorbing TWC; HAC: HC adsorbing catalyst; WU: warm-up catalyst; NAC: NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3: selective catalytic reduction-urea/ammonia: NH3OC: ammonia oxidation catalyst; CTOX/PTOX: continuous/periodic trap oxidizer: DPF: diesel particulate filter (active); GPF: PM filter for spark-ignited engine; HO2S/O2S: heated/oxygen sensor; WR-HO2S or AFS: wide range/linear/heated air-fuel ratio sensor; NOXS: NOx sensor; PMS: PM sensor; RDQS: reductant quality sensor; NH3S: ammonia sensor; EGR: exhaust gas recirculation; HP/LP EGR: High/Low Pressure EGR; EGRC: EGR cooler: AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multiport fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P/\$: full/partial/partial with fines on-board diagnostic; DOR: direct ozone reducing; HCT: hydrocarbon trap; BCAN: bleed carbon canister; prefix 2: parallel; (2) suffix: series; a hyphen (-) between after treatment ECS indicates multiple functionalities of the after treatment device (ex. DPF-SCRC: SCR coated DPF); CNG/LNG: compressed/liquefied natural gas; LPG: liquefied petroleum gas; E85: "85%" ethanol ("15%" gasoline) fuel; E10: "10%" ethanol ("90%" gasoline) fuel; A: automatic (with lockup); M: manual transmission; SA: semi -automatic transmission; CV: continuously variable transmission; SCV: selectable continuously variable transmission; AM: automated manual transmission; AMS: automated manual-selectable transmission; OT: other transmission; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle; NMOG + NOx Fleet Ave. Credit for Extended Warranty: N = no credits, Y = credits. S = credits for some/select models

2021 MODEL YEAR: VEHICLE MODELS INFORMATION

| MAKE | MODEL | VEH CLASS | ENGINE (L) | TRANS TYPE | EVAPORATIVE FAMILY | EXH | OBD |
|---------|--------|-----------|------------|------------|--------------------|-----|-----|
| HYUNDAI | SONATA | PC | 1.6 | SA8 | MHYXR0133ECG | 1 | F |