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.

<table>
<thead>
<tr>
<th>MODEL YEAR</th>
<th>TEST GROUP</th>
<th>VEHICLE CLASS(ES)</th>
<th>FUEL CATEGORY</th>
<th>FUEL TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019</td>
<td>KHYXV05.0JHS</td>
<td>PC</td>
<td>DEDICATED SINGLE FUEL VEHICLE</td>
<td>GASOLINE</td>
</tr>
</tbody>
</table>

USEFUL LIFE (miles) | VEHICLE EMISION CATEGORY | INTERIM / INTERMEDIATE IN-USE STD
150000 | FTP | FTP |
150000 | SFTP | SFTP |

**SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS**
1. DFI, 2WR-H02S, 2H02S, 2WU-TWC, 2TWC

**OBD STATUS**
- FULL
- PARTIAL
- PARTIAL WITH FINES

**ENGINE DISPLACEMENT (L)**

**EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION**

**EMISSION CREDIT INFORMATION**

**NMOG AND FLEET AVERAGE INFORMATION**

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.
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°F 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 at El Monte, California on this 29th day of March 2018.

Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division
### EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

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

<table>
<thead>
<tr>
<th>FUEL TYPE</th>
<th>NMOG+NOx (g/mi)</th>
<th>CO (g/mi)</th>
<th>NOx (g/mi)</th>
<th>HCHO (mg/mi)</th>
<th>PM (g/mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FTP@50K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>FTP@UL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50°F@4K</td>
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<td></td>
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</tr>
</tbody>
</table>

#### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

<table>
<thead>
<tr>
<th>FUEL TYPE</th>
<th>NMOG+NOx (g/mi)</th>
<th>CO (g/mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### WHOLE VEHICLE EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

<table>
<thead>
<tr>
<th>EVAPORATIVE FAMILY</th>
<th>FUEL TYPE</th>
<th>3DHS (g/test) @ UL</th>
<th>2DHS (g/test) @ UL</th>
<th>RL (g/mi) @ UL</th>
</tr>
</thead>
<tbody>
<tr>
<td>KHTXR0140JME</td>
<td>GASOLINE - CA PHASE 2</td>
<td>0.26 0.50</td>
<td>0.33 0.65</td>
<td>0.02 0.05</td>
</tr>
</tbody>
</table>

#### ORVR / FUEL ONLY / CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

<table>
<thead>
<tr>
<th>EVAPORATIVE FAMILY</th>
<th>ORVR (g/gallon) @ UL</th>
<th>FUEL TYPE</th>
<th>3DHS RIG TEST (g/test) @ UL</th>
<th>2DHS RIG TEST (g/test) @ UL</th>
<th>BLEED CANISTER TEST (g/test) @ 4K</th>
</tr>
</thead>
<tbody>
<tr>
<td>KHTXR0140JME</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Legend:**
- FTP: federal test procedure
- SFTP: supplemental FTP
- 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: 2/3 days diurnal+hot-soak
- RL: running loss
- ORVR: on-board refueling vapor recovery
- FTP@50K: federal test procedure at 50°F
- FTP@UL: federal test procedure at ultralow temperature
- HWFET@50K: heavy-duty simulation test at 50°F
- HWFET@UL: heavy-duty simulation test at ultralow temperature
- 20°F@50K: cold temperature test at 50°F
- US06: urban driving schedule
- SC03: city driving schedule
- COMPOSITE: composite driving schedule
- FUEL ONLY: fuel-only tests
- CANISTER BLEED: canister bleed tests
- TIER 2: Tier 2 emission standards
- UNLEADED: unleaded fuel
### EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)

<table>
<thead>
<tr>
<th>EVAPORATIVE FAMILY</th>
<th>LEAK FAMILY</th>
<th>CERT</th>
<th>STD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR; LDT2: LDT<6000#GVWR, 3751-5750#LVW; LDT3: LDT 6001-8500#GVWR, 3751-5750#ALVW; LDT4: LDT 8001-8500#GVWR, 5751-8500#ALVW; MDV: medium-duty vehicle; MDV4: MDV 8501-10000#GVWR; MDV5: MDV 10001-14000#GVWR; MDPV: medium-duty 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 SCR-C/N or SCR-C-NH3: selective catalytic reduction-urea/ammonia; NH3GC: 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: reducible quality sensor; NH3s: ammonia sensor; EGR: exhaust gas recirculation; EGRC: EGR cooler; AIR/AIRE: secondary air injection (belt driven)/(electric driven); PAIR: pulsed AIR; SFI/MFI: sequential/multipoint fuel injection; DFI/IFI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFH: fuel fired heater; F/P/S: 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; 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; CT: other transmission; AER: all-electric range; EAER: equivalent AER; PHEV: plug-in hybrid electric vehicle

### 2019 MODEL YEAR: VEHICLE MODELS INFORMATION

<table>
<thead>
<tr>
<th>MAKE</th>
<th>MODEL</th>
<th>VEH CLASS</th>
<th>ENGINE (L)</th>
<th>TRANS TYPE</th>
<th>EVAPORATIVE FAMILY</th>
<th>EXH ECS</th>
<th>OBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>HYUNDAI</td>
<td>G90</td>
<td>PC</td>
<td>5.0</td>
<td>SA8</td>
<td>KHYXR0140JME</td>
<td>1</td>
<td>P</td>
</tr>
<tr>
<td>HYUNDAI</td>
<td>G90</td>
<td>PC</td>
<td>5.0</td>
<td>SA8</td>
<td>KHYXR0140JME</td>
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</tr>
</tbody>
</table>