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: The following vehicles produced by the manufacturer are certified as plug-in hybrid electric vehicles pursuant to Title 13, California Code of Regulations (13 CCR) Sections 1961 or 1961.2, 1962.2, 1976, 1978 and the incorporated test procedures. 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>KKMXV02.OD2T</td>
<td>PC</td>
<td>PLUG-IN HYBRID ELECTRIC VEHICLE</td>
<td>GASOLINE</td>
</tr>
</tbody>
</table>

**USEFUL LIFE (miles)**

<table>
<thead>
<tr>
<th>EXH/ORVR</th>
<th>EVAP</th>
<th>USEFUL LIFE (miles)</th>
<th>VEHICLE EMISSION CATEGORY</th>
<th>INTERIM / INTERMEDIATE IN-USE STD</th>
</tr>
</thead>
<tbody>
<tr>
<td>150000</td>
<td>150000</td>
<td>150000</td>
<td>FTP</td>
<td>FTP SFTP</td>
</tr>
</tbody>
</table>

**SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS**

<table>
<thead>
<tr>
<th>USEFUL LIFE (miles)</th>
<th>VEHICLE EMISSION CATEGORY</th>
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</tr>
</thead>
<tbody>
<tr>
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<td>FTP SFTP</td>
<td>FTP SFTP</td>
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</table>

**TEST GROUP INFORMATION**

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<tr>
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<tr>
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</tr>
</tbody>
</table>

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.)
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).

BE IT FURTHER RESOLVED: Evaporative family KKMXR0125D2E is certified pursuant to 13 CCR Section 1976(b)(1)(G)3 and deemed to comply with the requirements of 13 CCR Section 1976(b)(1)(G)1 ["LEV III evaporative requirements"].

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 25th day of July 2018.

Annette Hebert, Chief
Emissions Compliance, Automotive Regulations and Science Division
## ATTACHMENT

### 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 (g/mi)</th>
<th>PM (g/mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FTP@50K</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GASOLINE-LEV3 E10</td>
<td>0.014</td>
<td>0.030</td>
<td>0.0</td>
<td>1.0</td>
<td>4</td>
</tr>
<tr>
<td><strong>FTP@UL</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GASOLINE-LEV3 E10</td>
<td>0.036</td>
<td>0.060</td>
<td>0.3</td>
<td>1.0</td>
<td>8</td>
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<tr>
<td><strong>50°F @4K</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GASOLINE-LEV3 E10</td>
<td>0.002</td>
<td>0.030</td>
<td>0.0</td>
<td>0.0</td>
<td>0.01</td>
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</tbody>
</table>

### FUEL TYPE

<table>
<thead>
<tr>
<th>NMOG+NOx (g/mi)</th>
<th>CO (g/mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HWFET @50K</strong></td>
<td></td>
</tr>
<tr>
<td>GASOLINE-LEV3 E10</td>
<td></td>
</tr>
<tr>
<td><strong>HWFET @ UL</strong></td>
<td></td>
</tr>
<tr>
<td>GASOLINE-COLD CO LOW OCTANE</td>
<td>0.6</td>
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### SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

<table>
<thead>
<tr>
<th>FUEL TYPE</th>
<th>NM0G+NOx (g/mi)</th>
<th>CO (g/mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>@ 4K</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GASOLINE-LEV3 E10</td>
<td>0.009</td>
<td>0.2</td>
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<tr>
<td><strong>@ UL</strong></td>
<td></td>
<td></td>
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<tr>
<td>GASOLINE-LEV3 E10</td>
<td>0.090</td>
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### 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>KMXXR0125D2E</td>
<td>GASOLINE-CA PHASE 2</td>
<td>0.30</td>
<td>0.35</td>
<td>0.28</td>
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### 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>KMXXR0125D2E</td>
<td>GASOLINE - TIER 2 UNLEADED</td>
<td>0.02</td>
<td>0.20</td>
<td>0.00</td>
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</tbody>
</table>
### 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>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

*: not applicable; #: pounds; UL: useful life; PC: passenger car; LDT: light-duty truck; LDT1: LDT<6000#GVWR,0-3750#LVW; LDT2: LDT<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: 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/SCR-N or SCR-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; RDOS: reductant 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/multiport fuel injection; DFI/FI: direct/indirect fuel injection; TC/SC: turbo/super charger; CAC: charge air cooler; FFP: fuel fired heater; F/P/F: 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: selective continuously variable transmission; OT: 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>MODEL NUMBER</th>
<th>MAKE</th>
<th>MODEL</th>
<th>VEH CLASS</th>
<th>ENGINE (L)</th>
<th>TRANS TYPE</th>
<th>EVAPORATIVE FAMILY</th>
<th>EXH</th>
<th>ECS</th>
<th>OBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>KIA</td>
<td>OPTIMA PLUG-IN HYBRID</td>
<td>PC</td>
<td>2.0</td>
<td>AM6</td>
<td>KKMXR0125D2E</td>
<td>1</td>
<td>P</td>
<td></td>
</tr>
</tbody>
</table>

### ELECTRIC RANGE AND ZEV ALLOWANCE INFORMATION

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>PHEV TYPE</th>
<th>UDDS AER (MILES)</th>
<th>UDDS EAER (MILES)</th>
<th>US06 AER (MILES)</th>
<th>HIGHWAY (MILES)</th>
<th>ZEV ALLOWANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TZEV</td>
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<td>40.6</td>
<td>*</td>
<td>41.5</td>
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