Pursuant to the authority vested in the 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 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

<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>2018</td>
<td>JBMXV02.0H30</td>
<td>PC</td>
<td>PLUG-IN HYBRID ELECTRIC VEHICLE</td>
<td>GASOLINE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>USEFUL LIFE (miles)</th>
<th>VEHICLE EMISSION CATEGORY</th>
<th>INTERIM / INTERMEDIATE IN-USE STD</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXH/ORVR</td>
<td>FTP</td>
<td>FTP</td>
</tr>
<tr>
<td>150000</td>
<td>LEV3 SULEV30</td>
<td>LEV 3 COMPOSITE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SPECIAL FEATURES &amp; EXHAUST EMISSION CONTROL SYSTEMS</th>
<th>OBD STATUS</th>
<th>ENGINE DISPLACEMENT (L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 WU-TWC, TWC, WR-HO2S, HO2S, DFI, TC, CAC</td>
<td>FULL</td>
<td>2.0</td>
</tr>
<tr>
<td>*</td>
<td>PARTIAL</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>ALL MODELS</td>
<td></td>
</tr>
<tr>
<td>*</td>
<td>PARTIAL WITH FINES</td>
<td></td>
</tr>
</tbody>
</table>

### EVAPORATIVE & REFUEILING (EVAP/ORVR) FAMILY INFORMATION

<table>
<thead>
<tr>
<th>EVAP ORVR FAMILY</th>
<th>EVAPORATIVE STD CATEGORY</th>
<th>EVAP EMISSION STD</th>
<th>VEHICLE CLASS</th>
<th>SPECIAL FEATURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>JBMXR0140G3H</td>
<td>LEV 3 OPTION2 WITH FEL</td>
<td>PC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### EMISSION CREDIT INFORMATION

<table>
<thead>
<tr>
<th>ALLOWANCE FOR TEST GROUP</th>
<th>NMOC CREDIT FOR NON-PZEV ZERO-EVAP</th>
<th>NMOC CREDIT FOR DOR</th>
<th>OPTIONAL EXH. STD FOR WORK TRUCKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASELINE PZEV</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>AT PZEV</td>
<td>ALL MODELS</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>TZEV</td>
<td>ALL MODELS</td>
<td>N</td>
<td>N</td>
</tr>
</tbody>
</table>

### NMOG AND FLEET AVERAGE INFORMATION

<table>
<thead>
<tr>
<th>NMOG RAF</th>
<th>CH4 RAF</th>
<th>FTP NMOG/NMHC RATIO</th>
<th>HCHO/NMHC RATIO</th>
<th>NMOC+NOX FLEET STD PC+LDT (0-3750 LVW) (g/mi)</th>
<th>NMOC+NOX FLEET STD LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)</th>
<th>NMOC+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>+</td>
<td>1.10</td>
<td>*</td>
<td>0.079</td>
<td>0.092</td>
<td>*</td>
</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.
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 NMOG+NOx and greenhouse gas Fleet Average (PC or LDT or MDPV) or "Vehicle Equivalent Credit" (MDV) compliance plan 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:
For evaporative family JBMXR0140G3H, the manufacturer has attested to compliance with the 0.02 inch effective leak diameter standard in 13 CCR Section 1976(b)(1)(G)6["Effective Leak Diameter Standard And Procedure"].

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 27th day of April 2017.

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)**

FUEL TYPE | NMOG+NOx (g/mi) | CO (g/mi) | NOx (g/mi) | HCHO (g/mi) | PM (mg/mi)
---|---|---|---|---|---
FTP@50K | CERT | STD | CERT | STD | CERT | STD | CERT | STD | CERT | STD
FTP@UL | | | | | | | | | | |
50°F @4K | | | | | | | | | | |

**FTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS**

FUEL TYPE | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi) | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---|---|---|---
ULF | CERT | STD | | | | |
UL | | | | | | |

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

FUEL TYPE | 3DHS (g/test) @ UL | 2DHS (g/test) @ UL | RL (g/mi) @ UL
---|---|---|---
CERT | STD | FEL | CERT | STD | FEL | CERT | STD

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

FUEL TYPE | 3DHS RIG TEST (g/test) @ UL | 2DHS RIG TEST (g/test) @ UL | BLEED CANISTER TEST (g/test) @ 4K
---|---|---|---
CERT | STD | CERT | STD | CERT | STD

---

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

---

**FUEL TYPE** | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---
GASOLINE-TIER3 E10 | 0.019 | 0.030 | 0.4 | 1.0 | 0.002 | 0.003

---

**FUEL TYPE** | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---
GASOLINE-TIER3 E10 | 0.028 | 0.060 | 0.4 | 1.0 | 8

---

**FUEL TYPE** | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---
HWFET @ 50K | | | |
HWFET @ UL | | | |
20°F @ 50K | | | |

---

**FUEL TYPE** | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---
US06 | CERT | STD | | | | |
SC03 | | | | | | |
COMPOSITE | | | | | | |

---

**FUEL TYPE** | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---
GASOLINE-TIER3 E10 | 0.014 | 0.8 | |
TIER3 E10 | 0.097 | 4.2 | |

---

**FUEL TYPE** | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---
GASOLINE-TIER3 E10 | 0.050 | | |

---

**FUEL TYPE** | NMOG+NOx (g/mi) | CO (g/mi) | PM (mg/mi)
---|---|---|---
GASOLINE-JBMXR0140G3H | 0.264 | 0.300 | 0.300 | 0.252 | 0.300 | 0.300 | 0.01 | 0.05
TIER3 E10 | 0.02 | 0.20 | |
### 2018 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>
<th>PZEV TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMW</td>
<td>530E</td>
<td>PC</td>
<td>2.0</td>
<td>SAB</td>
<td>JBMR0140G3H</td>
<td>1</td>
<td>P</td>
<td>TZEV</td>
</tr>
<tr>
<td>BMW</td>
<td>530E XDRIVE</td>
<td>PC</td>
<td>2.0</td>
<td>SAB</td>
<td>JBMR0140G3H</td>
<td>1</td>
<td>P</td>
<td>TZEV</td>
</tr>
</tbody>
</table>