

GENERAL MOTORS LLC. Executive Order: A-006-2113-1
New Passenger Cars, Light-Duty Trucks and
Medium-Duty Vehicles
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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 | NFORMA | TION | | | | |
|---|------------|---------------------------------------|--------------------|--------------------------------|--------|---------------|----------|---|--|--|--|
| MODE | - I T | EST GROUP | VEHIC | LE CLASS(ES) | | | FUEL C | ATEGORY | FUEL TYPE | | |
| 2018 | JG | MXT02.8358 | LD | LDT2, LDT3 | | | | SINGLE FUEL RICLE | DIESEL | | |
| - | USEFUL | LIFE (miles) | VEH | ICLE EMISSION CATEGORY | | | RY | INTERIM / INT | RMEDIATE IN-USE STD | | |
| EXH/ORVR EVAP | | | | FTP | | | | FTP | SFTP | | |
| 150000 * | | | LEV3 | ULEV125 LEV 3 COMPO | | OSITE | PM | PM | | | |
| SPE | CIAL FE | ATURES & EXI | HAUST EMISSIC | ON CONTRO | OL | | OBD S | TATUS | ENGINE DISPLACEMENT | | |
| CAC, TC, DFI, OC(2), DPF, SCRC, EGR, EGRC, NOXS(2), PMS | | | | | | | JLL | | | | |
| * | | | * | | | PAR | TIAL | ALL MODELS | 2.8 | | |
| * | | | * | | | | L WITH | * | | | |
| | | EV | APORATIVE & | REFUELING | G (EVA | P/ORVR |) FAMILY | INFORMATION | | | |
| EVA | P / ORV | R FAMILY | EVAPORATIVE | STD CATE | GORY | VEHICLE CLASS | | | SPECIAL FEATURES | | |
| | * | | | * | | | | | * | | |
| | | | | EMISSION C | CREDIT | INFOR | MATION | | | | |
| | EDIT FO | X FLEET AVE. OR EXTENDED RRANTY | | EDIT FOR NON-PZEV ZERO-EVAP | | | NMOG CI | REDIT FOR DOR | OPTIONAL EXH. STD FOR WORK TRUCKS | | |
| | | N | | N | | N | | | N | | |
| | | | NMOG | AND FLEE | TAVE | RAGE IN | FORMA | TION | | | |
| NMOG RAF | CH4 RAF | FTP NMOG/NMHC RATIO | HCHO/NMHC RATIO | DCTI DT IN 7750 | | | LDT | +NOX FLEET ST (3751 LVW-8500 R) + MDPV (g/mi) | NMOG+NOX FLEET STD MDV (10,001-14,000 GVWR) (g/mi) | | |
| * | * | * | * | | 0.079 | 0.092 | | | * | | |

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.)



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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.

This Executive Order hereby cancels and supersedes Executive Order A-006-2113 dated July 14, 2017.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 30

_ day of August 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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ATTACHMENT

| | | | | | | A | TTAC | HM | ENT | | | | | | | |
|-----------------------|-----------------------------------|--|---|---|-----------------|--|---|--|--|--|--|--|---|---|---|--|
| EXH | AUS | T AND | EVAP | OR | ATIVE | EMIS | SION | STAI | NDAR | DS AN | D CERT | IFICA | TION | LEVE | LS | |
| | EXH | AUST E | MISSIC | ON ST | TANDA | RDS A | ND CER | TIFIC | ATION | LEVELS | (FTP, HW | FET, 5 | 0°F, 20 | °F) | | |
| FL | UEL TY | m ac O | onoxide djustme RVR [g | nt fac HC/g | x: oxidetor; 2D | es of nit HS/3DI ispense | trogen; H HS [g HC ed]: on-bo | CHO: /test]: pard re | formale 2/3 day efueling | dehyde; F ys diurnai y vapor re | PM: particu +hot-soak covery; g: | ulate ma ; RL [g gram; | atter; R. HC/mi] mg: mill | AF: rea : runnii ligram; | activi ng lo | ty ss; |
| | • | | | | | CO (g/mi) | | | NOx (g/mi) | | | HCHO (mg/mi | | PM (g/mi) | | |
| | | | CERT | S | STD | CER | ST | D | CERT | STD | | | | CER | T | STD |
| P@50K * | | | * | - | * | * | * | | * | * | * | | * | * | | * |
| JL DI | DIESEL-EPA | | .0425 | 0. | .125 | 0.06 | 2. | 1 | * | * | * | | 4 | 0.0003 | | 0.003 |
| 4K | * | | * | | * | * | * | | * | * | * | | * | | | |
| | | | ELIEL TYPE | | | | | | NMHC+NOx (g/r | | Ox (g/mi) | ni) | | CO (g/mi | |) |
| | | FUEL TYPE | | | | | C | CERT | | | CERT | | | STD | | |
| HWFET @ 50K | | | * | | * | | | | | * | * | | | | | |
| HWFET @ UL | | | DIESEL-EPA | | | | | | | .021 | 0.12 | 5 | | | | |
| 20°F @ 50K | | | * | | | | | , | | | | | | * | | * |
| | | SI | TP EX | HAUS | STEM | ISSION | STAND | ARDS | AND | CERTIFIC | ATION L | EVELS | | | | |
| | | | | | l | JS06 | | | | SC03 | 3 | | CO | MPOS | ITE | |
| FUEL | TYPE | | NMHC+NOx (g/mi) | | Ox | CO (g/mi) | | | NMHC+NOx (g/mi) | | CO (g/mi) | | | (g/mi) | | PM (mg/mi) |
| | * | | T * | | | * | * | | | | * | * | | | | |
| | | | * | | | * | | | * | | * | | | | | |
| | DIESEL-EPA ST | | ₹ * | | | * | 0 | 0.4 | | * | | 0.069 | | 0.05 | | * |
| DIESE | | | | | | * | 1 | .0 | | * | * | 0. | 097 | 4.2 | | *. |
| | | | | | | | | | | | | 0.120 | | | | |
| | WH | OLE VI | HICLE | EVA | | | | | | | | ATION | LEVEL | .S | | |
| | | | - | | W | HOLE V | EHICLE | EVA | PORAT | IVE TES | TING | | | | | |
| FAMILY | | FUEL TYPE | | 3DHS (g/test) @ UL | | | | | 2DHS (g/test) @ UL | | | | KI | L (g/mi) @ OL | | |
| | | | | CERT | ERT STD | | FEL | EL CE | | ERT STD | | L | CERT | | STD | |
| * | | * | | * | | * | * | | | * | * | | * * | | | |
| ORVR / | FUEL | ONLY/ | CANIS | TER E | BLEED | EVAP | ORATIVE | | | | | _ | | | EVE | LS |
| | | 001/0 | | -1- | | | | _ | | | | | | | | |
| EVAPORATIVE FAMILY | | ORVR (g/gall | | | | | TYPE | | | | | | | | | |
| | | JEL TYP | E CE | ERT STD | | | | | | STD | | | STD | | | STD |
| * | | * | * * | | * | * | | | | | * | | | * | | * |
| | EF | FECTIV | E LEA | K DI | AMET | ER ST | ANDAR | RD A | ND CE | RTIFICA | TION LE | VEL (| INCHE | S) | | |
| PORAT | IVE FA | MILY | 1 | LEAK | FAMI | LY | | | CEF | RT | | | | STD | | |
| 1 | * | | | | * | | | | * | | | | | * | | |
| | FUEL DIESE ORATI AMILY * PORAT | FUEL TY OK * JL DIESEL- 4K * T @ 50K T @ UL @ 50K FUEL TYPE * DIESEL-EPA WHORATIVE AMILY PORVR / FUEL ORATIVE AMILY FUEL F | FUEL TYPE OK * JL DIESEL-EPA O 4K * T @ 50K T @ UL @ 50K SI FUEL TYPE * CERT STD CERT STD CERT STD BIN WHOLE VE AMILY FUEL TYPE * CRATIVE ORATIVE ORATIVE AMILY FUEL TYPE * EFFECTIVE PORATIVE FAMILY | FUEL TYPE CH4: memonoxide adjustme ORVR [g 1000 mile or mile | FUEL TYPE | FUEL TYPE FUEL TYPE CH4: methane; NMO monoxide; NOx: oxidi adjustment factor; 2D ORVR [g HC/gallon of 1000 miles; F: degree NMHC+NOx (g/mi) CERT STD OK * * * FUEL TYPE T @ 50K T @ UL @ 50K SFTP EXHAUST EM FUEL TYPE NMHC+NOx (g/mi) CERT * FUEL TYPE NMHC+NOx (g/mi) CERT * STD * DIESEL-EE ORATIVE AMILY FUEL TYPE ORATIVE ORVR (g/gallon) CERT STD CERT * STD * BIN WHOLE VEHICLE EVAPORA WHOLE VEHICLE EVAPORA ORATIVE AMILY FUEL TYPE ORVR (g/gallon) @ UL AMILY FUEL TYPE CERT STD * EFFECTIVE LEAK DIAMET PORATIVE FAMILY LEAK FAMILY FUEL TYPE CERT STD * EFFECTIVE LEAK DIAMET | EXHAUST AND EVAPORATIVE EMIS EXHAUST EMISSION STANDARDS A CH4: methane; NMOG: non- monoxide; NOx: oxides of nir adjustment factor; 2DHS/3Di ORVR [g HC/gallon dispense 1000 miles; F: degrees Fahre NMHC+NOX (g/mi) CERT STD CER: NMHC+NOX (g/mi) CERT STD CER: T @ 50K FUEL TYPE T @ 50K SFTP EXHAUST EMISSION SFTP EXHAUST EMISSION WHOLE TYPE CERT * * STD * STD * CERT * STD * STD * STD * WHOLE VEHICLE EVAPORATIVE E WHOLE VEHICLE EVAPORATIVE E WHOLE VEHICLE EVAPORATIVE E WHOLE VEHICLE EVAPORATIVE E ORATIVE AMILY ORATIVE ORVR (g/gallon) @ UL FUEL TYPE CERT STD * EFFECTIVE LEAK DIAMETER ST PORATIVE FUEL TYPE CERT STD * EFFECTIVE LEAK DIAMETER ST PORATIVE FAMILY LEAK FAMILY | EXHAUST AND EVAPORATIVE EMISSION : EXHAUST EMISSION STANDARDS AND CER CH4: methane; NMOG: non-CH4 org. monoxide; NOx: oxides of nitrogen; H adjustment factor; 2DHS/3DHS [g HC ORVR [g HC/gallon dispensed]: on-bit 1000 miles; F: degrees Fahrenheit; F NMHC+NOX | EXHAUST AND EVAPORATIVE EMISSION STAIN EXHAUST EMISSION STANDARDS AND CERTIFIC CH4: methane; NMOG: non-CH4 organic g monoxide; NOx: oxides of nitrogen; HCHO: adjustment factor; 2DHS/3DHS [g HC/test]: ORVR [g HC/gallon dispensed]: on-board in 1000 miles; F: degrees Fahrenheit; FTP: fe NMHC+NOX | CH4: methane; NMOG: non-CH4 organic gas; HC: monoxide; NOx: oxides of nitrogen; HCH0: formal adjustment factor; 2DHS/3DHS [g HC/test]: 2/3 day adjustment factor; 2DHS/3DHS [g Hc/test]: 2/4 day adjustment factor; 2DHS/3DHS [g Hc/test]: 2DHS/3DHS/3DHS/3DHS/3DHS/3DHS/3DHS/3DHS/3 | EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS CH4: methane, NMOG: non-CH4 organic gas; HC: hydroca monoxide; NOx: oxides of nitrogen; HCHO: formaldehyde; F adjustment factor; 2DHS/3DHS [g Hc/Rest]: 2/3 days diumal ORVR [g Hc/Rest] end feuleing vapor 1000 miles; F: degrees Fahrenheit; FTP: federal test proced [g/mi]) CERT STD CERT STD CERT STD | EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERT EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HW CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMH monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particular adjustment factor; 2DHS/3DHS (g HC/lesst); 22 days diumal-hot-soak ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTF NMHC+NOX | EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICA EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 6 CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: normonoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate madjustment factor; 2DHS/3DHS (gHC/lesst); 22 days diumal-hot-soak; RL (ghost); 20 days diumal-hot-soak; RL (ghost); | EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20 CM AUTOM (Proposition of the property | EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVEL EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) CHAF methane; NMOC; non-CH4 drganic gas; HC: hydrocarbon; NMHC: non-CH4 HC; CO monoxide; PM: particulate matter, RATe; adjustment factor; 2DHS/3DHS (g HC/test); 2/3 days diurnal-shot-soak; RL (g HC/m); runnic CRVR (g HC/gallon dispensed); no-board refueling vapor recovery; gram; mg; milligram; look (g/mi) (g/mi) (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) (mg/mi) (g/mi) (g/mi) (mg/mi) (mg/mi) (mg/mi) (mg/mi) (mg/mi) (pg/mi) (mg/mi) (pg/mi) (mg/mi) (pg/mi) | EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) CHAF methane; MMOG; non-CH4 organic gas; HC: hydrocarbon; NMHC; non-CH4 HC; CD: can monoxide; MOx oxides of nitrogen; HCH0; formaldehyde; PM: particulate matter; RAF reactive adjustment factor; 2DHS/3DHS (gH C/ftest); 2/3 days durnal+hot-soak; RL (g HC/mi); running lo CPRV (g HC/mi); running lo (g/mi) (g/m |



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: 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; 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; 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

2018 MODEL YEAR: VEHICLE MODELS INFORMATION

| MAKE | MODEL | VEH CLASS | ENGINE (L) | TRANS TYPE | EVAPORATIVE FAMILY | EXH ECS | OBD |
|-----------|--------------|-----------|------------|------------|--------------------|------------|-----|
| CHEVROLET | COLORADO 2WD | LDT2 | 2.8 | A6 | * | 1 | P |
| CHEVROLET | COLORADO 4WD | LDT3 | 2.8 | A6 | * | 1 | P |
| GMC | CANYON 2WD | LDT2 | 2.8 | A6 | * | 1 | P |
| GMC | CANYON 4WD | LDT3 | 2.8 | A6 | * | 1 | P |