**EXECUTIVE ORDER A-009-1318** 

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Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 & 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.

granted.										
			TEST	GROUF	INFORMATION ,					
MODEL YEAR	TEST GROU	JP VEHIC	CLE CLASS(ES)		FUEL CATEGORY	FU	EL TYPE			
2017	HCRXT03.65	5P1 L	DT2, LDT3		DEDICATED SINGLE FUEL VEHICLE	G	GASOLINE			
A STATE OF THE STA	USEFUL LIFI	E (miles)	VEHICLE I	EMISSI	ON CATEGORY	IN	ERIM / INTERME	DIATE IN-USE STD		
EXH/C	DRVR	EVAP	FTP		SFTP		FTP	SFTP		
120	120000 150000		USEPA TIER3 TRANSITIONAL BIN 110 COUNTED AS LEV II ULEV		LEV II SFTP			*		
SPECIAL	FEATURES &	EXHAUST EMISSION	CONTROL SYSTEMS		OBD STATUS		ENGIN	IE DISPLACEMENT (L)		
1		2TWC, 2HO2S(2), SI	-1	I	FULL ALL MOD					
2	2TWC	, 2HO2S(2), SFI, EGF	R, EGRC	684	RTIAL			3.6		
*	PARTIAL WITH FINES									
A and a second		E	VAPORATIVE & REFUE	LING (E	VAP/ORVR) FAMILY INFORM	MATION				
EV	AP / ORVR FA	MILY EV	APORATIVE STD CATEG	ORY	EVAP EMISSION STD VEH	HICLE CLA	SS SPE	CIAL FEATURES		
ŀ	HCRXR0140RI	K0	LEV2		· LDT3		*			
ŀ	HCRXR0150PI	K0	LEV2	V	LDT2			*		
ŀ	HCRXR0150RI	K0	LEV2	1	LDT3		*			
ŀ	HCRXR0153PI	K0	LEV2	7	LDT2		*			
ŀ	HCRXR0170PI	K0	LEV2	LDT2 *						
on the French			EMISSIO	N CRE	DIT INFORMATION					
ALLOWANCE FOR TEST GROUP					NMOG CREDIT FOR NON-PZEV ZERO-EVAP	NMOG CI	CREDIT FOR DOR OPTIONAL EXH. S			
BASELINE PZEV AT PZEV TZ							N	N N		
\$ 57 8 CH (\$2.70%)	900 V = 3300 4 V		NMOG AND F	LEET A	VERAGE INFORMATION	9. C. C	- 1,50g (A 1,-15), s	Alleria de la Companya de la Company		
NMOG RAF	CH4 RAF	FTP NMOG/NMHC	HCHO/NMHC RATIO	S	NMOG+NOX FLEET STD PC+LDT (0-3750 LVW) (g		MOG+NOX FLEET STD LDT (3751 LVW- 8500 GVWR) + MDPV (g/mi)			
*	*	1.04	*		0.086			0.101		

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 the 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 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).

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### BE IT FURTHER RESOLVED:

The listed vehicle models are federally certified, and are certified under the provisions of 13 CCR Section 1961.2(a)(12) and the incorporated test procedures.

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

\_ day of February 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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# **ATTACHMENT**

## **EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS**

(For bi-, dual- or flexible-fueled vehicles, the STD and CERT in parentheses are those applicable to testing on gasoline test fuel.)

	ANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50 °F, 20 °F)	
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1 - X - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	CH4=methane; NMOG=non-CH4 organic gas; HC=hydrocarbon; NMHC=non-CH4 HC; CO=carbon monoxide; NOx=oxides of nitrog HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2DHS/3DHS [g HC/test]=2/3 days diurnal+hot-soak HC/mi]=running loss; ORVR [g HC/gallon dispensed]=on-board refuelling vapor recovery; g=gram; mg=milligram; ml=mile; K=1000 Fahrenheit; FTP=federal test procedure; SFTP=supplemental FTP										
		NMOG+NOx (g/mi)		NOx (g/mi)		CO (g/mi)		HCHO (mg/mi)		PM (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD
FTP @ UL	GASOLINE-TIER 2 UNLEADED	0.101	0.110	*	*	1.73	2.1		4	*	0.010
20°F @ 50K	GASOLINE-COLD CO- LOW OCTANE	*	*	*	*	1.63	12.5	·	*	*	*
HWFET @	GASOLINE-TIER 2 UNLEADED	0.039	0.110	*	*	*	• 4		*	*	*

## SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS

		US06					SC03				COMPOSITE					
	FUEL TYPE	NMHC+NOx (g/mi)		CO (g/mi)		PM (mg/mi)		NMHC+NOx (g/mi)		CO (g/mi)		NMOG+NOx (g/mi)		g/mi)	CO (g/mi)	
		CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	BIN	CERT	STD
SFTP @ 4K	GASOLINE-TIER 2 UNLEADED	0.132	0.25	2.70	10.5	*	*	0.100	0.27	1.25	3.5	*	*	*	*	*
SFTP @ UL	GASOLINE-TIER 2 UNLEADED	*	*	*	*	*			*		*	*	*	*	*	*

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

EVAPORATIVE FAMILY		WHOLE VEHICLE EVAPORATIVE TESTING						RUNNING LOSS		ON-BOARD REFUELING	
	FUEL TYPE	3-DAYS DIURNAL + HOT SOAK (g/test) @ UL			2-DAYS DIURNAL + HOT SOAK (g/test) @ UL			(g/mi)	@ UL	(g/gallon) @ UL	
		CERT	STD	FEL	CERT	STD	FEL	CERT	STD	CERT	STD
HCRXR0140RK0	GASOLINE-TIER2 UNLEADED	0.292	0.90	7.1	0.313	1.15	ŵ	0.000	0.05	0.085	0.20
HCRXR0150PK0	GASOLINE-TIER2 UNLEADED	0.294	0.65		0.298	0.85	*	0.000	0.05	0.15	0.20
HCRXR0150RK0	GASOLINE-TIER2 UNLEADED	0.292	0.90	*	0.313	1.15	ŧ	0.000	0.05	0.085	0.20
HCRXR0153PK0	GASOLINE-TIER2 UNLEADED	0.388	0.65	*	0.426	0.85	*	0.000	0.05	0.058	0.20
HCRXR0170PK0	GASOLINE-TIER2 UNLEADED	0.424	0.65	*	0.586	0.85	*	0.000	0.05	0.03	0.20

## FUEL ONLY & CANISTER BLEED EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS

EVAPORATIVE FAMILY			FUEL ONLY EVAP					
	FUEL TYPE	3-DAYS DIURN/ (g/test	AL + HOT SOAK ) @ UL	2-DAYS DIURNA (g/test)		CANISTER BLEED (g/test)		
		CERT	STD	CERT	STD	CERT	STD	
*	*	*	*	*	*	*	*	

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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=LDT≤6000#GVWR,3751-5750#LVW; LDT3=LDT 6001-8500#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; 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; PZEV=partial ZEV; AT PZEV=advanced technology PZEV; 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; DFF=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; 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 transmission; AM=automated manual transmission; OT=other transmission; L=lock-up automatic transmission; CV=continuously variable transmission; AM=automated manual

2016 MODEL YEAR: VEHICLE MODELS INFORMATION												
MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE				
CHYSLER	PACIFICA	LDT3	3.6	A9	HCRXR0140RK0	2	F	*				
DODGE	GRAND CARAVAN	LDT3	3.6	A6	HCRXR0150RK0	1	F	*				
DODGE	JOURNEY	LDT2	3.6	A6	HCRXR0153PK0	1	F	*				
JEEP	WRANGLER 4x4	LDT2	3.6	A5, M6	HCRXR0150PK0	1	F	*				
JEEP	WRANGLER UNLIMITED 4x4	LDT2	3.6	A5, M6	HCRXR0170PK0	1	F	*				

