	California	Environmental	Protection	Agency
--	------------	---------------	------------	--------

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-02-003;

### 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.

MODEL YEAR	TEST GROUP	VEHICLE TYPE	EXHAUST EMISSION STANDARD CATEGORY	USEFUL LI	FE (miles)	FUEL TYPE		
		LDT: 6001-8500# GVW, 5751-	"LEV II" Low Emission	EXH / ORVR	EVAP	- Gasoline (Tier 2 Unleaded)		
2014	ECRXT06.45P0	8500# ALVW	Vehicle (LEV II LEV)	120K	150K			
No.		SPECIAL FEATURES	EVAPORATIVE FA	MILY (EVAF)		DISPLACEMENT (L)		
1	2TWC, 2	HO2S(2), SFI, OBD(F)	ECRXR018	BORKO				
* .	· · · · · · · · · · · · · · · · · · ·	*	*			6.4		
*		*	*	•				

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:**

That 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 Fleet Average" (PC or LDT) or "Vehicle Equivalent Credit" (MDV) compliance plan shall be equalized as required.

## **BE IT FURTHER RESOLVED:**

That 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 Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model PC, LDT and MDV).

## **BE IT FURTHER RESOLVED:**

The test group listed in this Executive Order is certified conditionally on the manufacturer providing data to demonstrate compliance with California's greenhouse gas fleet average emission standard (CA GHG Standard) specified in Title 13, California Code of Regulations, (13 CCR) Section 1961.1 and the incorporated California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, amended March 29, 2010 (CA Test Procedures). The manufacturer has elected, under 13 CCR Section 1961.1(a)(1)(A)(ii) and under Section E.2.5.1(ii) of the CA Test Procedures, to demonstrate compliance with the CA GHG Standard by demonstrating compliance with the National greenhouse gas program (National GHG Program). Therefore, the test group listed in this Executive Order is certified conditionally further on the manufacturer complying with the requirements specified in said provisions in 13 CCR, and Sections E.2.5.1(ii) and H.4.5(b) and H.4.5(c) of the CA Test Procedures (among other things, concerning data and information submission, timing, and format as specified by the Executive Officer). Failure to comply with the certification requirements to demonstrate compliance with CA GHG Standard by demonstrating compliance with the National GHG Program under said provisions in 13 CCR and CA Test Procedures may be cause for the Executive Officer to revoke the Executive Order. Vehicles in the revoked Executive Order shall be deemed uncertified and subject to penalties authorized under California law. Notwithstanding the requirement herein, a manufacturer that becomes, after MY2009, a large-volume manufacturer, as defined in 13 CCR Section 1900, is not required to comply with the CA GHG Standard until the beginning of the fourth model-year from becoming a large-volume manufacturer. Additionally, notwithstanding the requirement herein, a small-volume manufacturer, independent low-volume manufacturer, or intermediate volume-manufacturer, as defined in 13 CCR Section 1900, is not required to comply with CA GHG Standard during model-years (MY) 2012 through 2015.

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 January 2013.

quenas

Annette Hebert, Chief Mobile Source Operations Division

# OB Air Resources Board

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 2 of 2

# 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.)

AVERAGE [g/ml]   CH4 RAF = *   NMOG or NMHC   NMOG or STD   NMOG or NMHC   NMHC   NMHC   NMHC   NMHC   STD   NMHC   STD   Image: Stress of the start of t	MÓG+N	Ox FLEET	NMOG	@ RAF=*		CH4=meth	ane; NMOG	=non-CH4 o	rganic gas	NMHC=nc	n-CH4 hyd	rocarbon;	CO=carbor	monoxide; I	Ox=oxides	of nitroger
CERT   STD   NMOG   NMMC   CERT   STD   Imminie K-1000 miles, F=degrees Farenchi, SFTP=supplemental federal test procedure     0.115   0.128   (g/mi)					NMOG or	HCHO=for	meldehyde:	PM=narticul	ate matter	RAF=reac	tivity adjust	ment facto	r: 2/3 D lo/t	est]=2/3 day	diumal+	
0.115   0.128   CERT   CERT   Ig/mil   Col (g/mil)   NOx (g/mil)   HCHO (mg/mil)   PM (g/mil)	CERT	STD				mi=mile; K	=1000 miles	s; F=degrees	Fahrenhe	it: SFTP=s	upplementa	federal to	est procedu	re		
Image: Note   Upfining   Description   CERT   STD   CO [g/mi]   NMHC+NOx [g/mi]   CO [g/mi]   NMHC+NOx	115	0.120					<u> </u>									
Image: Solver	1,115	0.120	[g/mi]		faund		+		-							
Image: Column and the state of the		@ 50K	0.051	*	0.075					<b>)</b>						
CO [g/mi] NMHC+NOx [g/mi] NMHC+NOx CO [g/mi] NMHC+NOx CO [g/mi] NMHC+NOx CO [g/mi] [LS06] [LVS06] [LVS06] [g/mi] CO [g/mi] [LS06] [J/mi] CO [g/mi] CO [g/mi] CO [g/mi] [LS06] [g/mi] [LS03] [SC03]	2 2 C 2 C		0.051	*	0.090			0.04		/				0.01		0.0
CO [g/mi]   (composite)   (composite)   (g/mi] [US06]   [US06]   [g/mi] [SC03]   [SC03]     @ 20°F & 50K   CERT   STD   CERT	6 0	0 50°F & 4K	*	*	*	*	*	*	*	*		*	*	*	÷	*
CERT   STD   CE	CO [	g/mi]														
Instruction	@ 20°F	& 50K			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	ST
TD 12.5 SFTP @ miles   Evaporative Family 3-Days Diurnal + Hot Soak (grams/test) @ UL 2-Days Diurnal + Hot Soak (grams/test) @ UL Running Loss (grams/mile) @ UL On-Board Refueling Vapor Recovery (grams/gallon) @ U   ECRXR0180RK0 0.28 0.90 0.55 1.15 0.000 0.05 0.14 0.20   *	RT	2.4	SFTP @ 4	000 miles	*	*	*	*	0.14	0.60	***					4.(
Evaporative Family   Image: Ggrams/test) @ UL   (grams/test) @ UL   (grams/test) @ UL   Recovery (grams/gallon) @ U     ECRXR0180RK0   0.28   0.90   0.55   1.15   0.000   0.05   0.14   0.20     *	מז	12.5	SFTP	@* miles	*	*	*	*	*	*	•	*	*	*	*	*
CERX CIR	Eva	- porative Far	nily													
Interview in the second s				CERT	S	TD	CERT	s	TD	CER	T	STD		CERT		STD
enot applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; LDT1=LDT<6000#GVWR,0-3750#LVW; LDT2=LDT<6000#GVWR,3751-5750#LVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 1000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; LVW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; U=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammol idation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR-HO2S or "S=WVide range/linear/heated air-fuel ratio sensor; NOXS= NOX sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; EGR=exhaust gas circulation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= sequential/ multiport fuel ection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/optial/both on-board diagnostic; DOR=direct one reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas;											0.20					
enot applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; LDT1=LDT<6000#GVWR,0-3750#LVW; LDT2=LDT<6000#GVWR,3751-5750#LVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; .VW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; U=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammol idation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR-HO2S or "S=Wide range/linear/heated air-fuel ratio sensor; NOXS= NOX sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; EGR=exhaust gas circulation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= sequential/ multiport fuel ection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/optinal/both on-board diagnostic; DOR=direct one reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas;		*		*		*	*		*			*		*		*
enot applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; LDT1=LDT<6000#GVWR,0-3750#LVW; LDT2=LDT<6000#GVWR,3751-5750#LVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; .VW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; U=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammol idation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR-HO2S or 'S=WVide range/linear/heated air-fuel ratio sensor; NOXS= NOX sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; EGR=exhaust gas circulation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= sequential/ multiport fuel ection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both on-board diagnostic; DOR=direct one reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas;		*	-	*		*										
DT3=LDT 6001-8500#GVWR,3751-5750#ALVW; LDT4=LDT 6001-8500#GVWR,5751-8500#ALVW; MDV=medium-duty vehicle; MDV4=MDV 8501- 000#GVWR; MDV5=MDV 10001-14000#GVWR; ECS= emission control system; STD= standard; CERT= certification; LVW=loaded vehicle weight; .vW=adjusted LVW; LEV=low emission vehicle; ULEV=ultra LEV; SULEV=super ULEV; TWC/OC=3-way/oxidizing catalyst; ADSTWC=adsorbing TWC; U=warm-up catalyst; NAC=NOx adsorption catalyst; SCR-U or SCRC/SCR-N or SCRC-NH3= selective catalytic reduction-urea/ammonia; NH3OC=ammol idation catalyst; CTOX/PTOX= continuous/periodic trap oxidizer; DPF = Diesel Particulate Filter (active); HO2S/O2S=heated/oxygen sensor; WR-HO2S or "S=Wide range/linear/heated air-fuel ratio sensor; NOXS= NOX sensor; RDQS=reductant quality sensor; NH3S = Ammonia sensor; EGR=exhaust gas circulation; EGRC=EGR cooler; AIR/AIRE=secondary air injection (belt driven)/(electric driven); PAIR=pulsed AIR; SFI/MFI= sequential/ multiport fuel ection; DFI=direct fuel injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)(B)=full/partial/both on-board diagnostic; DOR=direct one reducing; HCT=Hydrocarbon Trap; BCAN=bleed carbon canister; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas;		*		•		*	*		*	*		*		*		*
	DT3=LD 000#GV LVW=ac U=warn idation ( S=Wid circulati ection; I one red	0T 6001-850 VWR; <b>MDV</b> djusted LVW n-up catalys catalyst; CT le range/line ion; EGRC= DFI=direct f ducing; HCT	0#GVWR,3 5=MDV 100 7; LEV=low t; NAC=NC OX/PTOX= ar/heated a EGR coole uel injection =Hydrocart	3751-5750#, emission vo continuous air-fuel ratio r; AIR/AIRE n; TC/SC= pon Trap; B	ALVW; LD GVWR; EC ahicle; ULE n catalyst; { /periodic tr sensor; N =secondar; turbo/super CAN=bleec	F4=LDT 60 S= emissi V=ultra LE SCR-U or ap oxidize DXS= NO: y air injecti charger; I carbon ca	001-8500# EV; SULE SCRC/SC r; DPF = I x sensor; l ion (belt d CAC=cha anister; pr	#GVWR,5 I system; \$ V≃super L CR-N or S Diesel Par RDQS=re- riven)/(ele rge air coo	751-850 STD= sta JLEV; Th CRC-NH ticulate f ductant c ductant c otric driv bler; OBI	D#ALVW; andard; C NC/OC=3 I3= select Filter (acti quality ser en); PAIF D (F)/(P)(	MDV=m ERT= cer I-way/oxio tive cataly ve); HO2 nsor; NH3 {=pulsed B)=full/pa	edium-di tificatior lizing ca /tic redu S/O2S=I SS = Am AIR; SF artial/boti	uty vehicle i; LVW=lo talyst; AD ction-urea heated/ox monia ser I/MFI= se h on-board	e; MDV4=f aded vehic STWC=ad //ammonia ygen sens sor; EGR quential/ n d diagnost	ADV 8501- cle weight; sorbing T\ ; NH3OC= or; WR-HC =exhaust g nultiport fue ic; DOR=c	VC; ammoi 2 <b>S</b> o <b>r</b> las lirect
				20									•			
2014 MODEL YEAR: VEHICLE MODELS INFORMATION			1						_	E	NGINE			005		

MAKE	MODEL		ECS NO.	ENGINE SIZE (L)	VEHICLE TYPE	SPECIAL FEATURES	OBD II
JEEP	GRAND CHEROKEE SRT8	ECRXR0180RK0	1	6.4	LDT4	· *	Full