

NISSAN MOTOR COMPANY, LTD.

Executive Order: A-015-0818

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 GRO	UP II	NFOR	MATION					
MODE	- I TI	EST GROUP		VEHICLE CLASS(ES)			FUEL CATEGORY			FUEL TYPE			
201		sxv01.8R1A			PC D			DEDICATED SINGLE FUEL VEHICLE			GASOLINE		
	USEFUL	. LIFE (miles)	VEH	VEHICLE EMISSION CATEGO				INTERIM / IN	TER	ERMEDIATE IN-USE STD			
EXH/ORVR EVAP					FTP			ТР	FTP		SFTP		
150000 150000)	LEV3	SULEV30	LEV30 LEV 3 COM		OMPOSITE	*		PM		
SPECIAL FEATURES & EXHAUST EMISSION CONTROL SYSTEMS						L		OBD S	TATUS		ENGINE DISPLACEMENT (L)		
1	TWC(2), WR-HO2S, HO2S, SFI							FULL	*	7			
*		*						PARTIAL	ALL MODELS		1.8		
*	*						PAF	RTIAL WITH FINES	*				
1	EVAPORATIVE & REFUELING (EVAP/ORVR) FAMILY INFORMATION												
EVA	EVAP / ORVR FAMILY EVAPORATIVE STD CATEGOR						′	EVAP EMISSION STD VEHICLE CLASS			SPECIAL FEATURES		
	KNSXR00	99PCA	LEV 3 OPTI	2V 3 OPTION2 WITH FEL			PC			*			
					EMISSION CI	REDI	[INF	ORMATION					
NMOG+NOX FLEET AVE. CREDIT FOR EXTENDED WARRANTY					MOG CREDIT FOR NON-PZEV ZERO-EVAP			NMOG CREDIT FOR DOR			OPTIONAL EXH. STD FOR WORK TRUCKS		
	и						N				N		
				NMOG	AND FLEET	AVE	RAG	E INFORMA	TION				
NMOG RAF	CH4 RAF	FTP NMOG/NMHC RATIO	НС	HO/NMHC RATIO	D('11 1)1 //_3/6			V) LDT	NMOG+NOX FLEET ST LDT (3751 LVW-8500 GVWR) + MDPV (g/mi)		1 ' '		
*	*	1.10		*	0	. 072			0.083		*		

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.



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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.

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

Executed at El Monte, California on this 27 day of June 2018.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division



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						A	TTAC	НМІ	ENT							
EXH															S	
	EXH	AUST E	MISS	ION S	STANDA	ARDS A	ND CER	TIFICA	TION L	EVELS	(FTP, HV	FET	, 50°F, 20	°F)		
FU	m a C		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													
							CO (g/mi)		NOx (g/mi)					PM (g/mi)		
			CERT		STD	CERT	ST	D	CERT	STD	CER	Т	STD	CERT	STD	
0K	*		*		*	*	*		*	*	*		*	*	*	
	L GASOLINE- LEV3 E10		0.019	9 (0.030	0.4	1.	0	*	*	*		4	0.0002	0.003	
4K	*		*		*	*	*		*	*	*		*		100	
				FII	FI TYP	F			NŅ	OG+N	Ox (g/mi)			CO (g/mi)	
•									CE	RT	STD		CERT		STD	
HWFET @ 50K					*				*	*		*				
T@UL			GASOLINE-LEV3 E10						0.0	05	0.030					
@ 50K		GA	SOLIN	E-TI	ER3 E	10 COL	о со		1	1,00.		1611	0.8		10.0	
		S	FTPE	XHAI	JST EM	ISSION	STAND	ARDS	AND CE	RTIFIC	ATION L	EVEL				
			US06													
FUEL T									(g/mi)		CO (g/mi)				PM (mg/mi)	
*	*		*		*		٧	*		*		1				
				*		.*			*		*					
			*		*		2	*		*	(0.014	1.0	*.		
LEV3 E10 STD					*	6		*		*	(0.090	4.2	*		
	BII															
	WH	IOLE VI	HICL	E EV	APORA	TIVE E	MISSION	STAN	DARDS	AND C	ERTIFIC	ATIO	N LEVEL	S		
					WI	HOLE V	EHICLE	EVAP	ORATIV	E TEST	ING					
EVAPORATIVE FAMILY		TVPE		TYPE 3DHS (g/test) @ UL					2DHS	(g/test)	@ UL		RL (g/mi)		@ UL	
				CERT S		TD FEL		CEF	RT	STD	FEL	. CER		Г	STD	
KNSKR0099PCA			10 144 1 0		300	00 0.300 0.2		50 0.300		0.30	0.300 0.		0.05			
RVR / F	UEL (ONLY /	CANIS	STER	BLEED	EVAPO	PRATIVI	EMIS	SION S	TANDA	RDS AND	CEF	RTIFICATI	ION LEVI	ELS	
EVAPORATIVE FAMILY											& CANISTER BLEE					
		ORVR (g/gallon) @ UL										2DHS RIG TEST (g/test) @ UL		BLEED CANISTER TEST (g/test) @ 4K		
		EL TYP	E C	CERT STD		C		CEI	RT	STD	CERT		STD	CERT	STD	
0099PC	A		1 0	.06	0.20			*		*	*		*	0.009	0.020	
	FUEL TO SOK TO S	FUEL TYPE OK * GASOLINE- LEV3 E10 ORATIVE MILY ORATIVE MILY ORATIVE MILY ORATIVE GASOLINE- LEV3 E10 ORATIVE GASOLINE- LEV3 E10 ORATIVE GASOLINE- ORA	FUEL TYPE FUEL TYPE OK * OK * OK * OK * OK GASOLINE- LEV3 E10 AK * CERT STD CERT STD CERT STD CERT STD BIN WHOLE VE ORATIVE FUEL TY ORATIVE ORVR (FUEL TYPE	FUEL TYPE FUEL TYPE FUEL TYPE NM CERT OK * * GASOLINE- LEV3 E10 SFTP E FUEL TYPE NM CERT STD CERT	FUEL TYPE FUEL TYPE CH4: methar monoxide; N adjustment for ORVR (g HC 1000 miles; F) NMOG+P (g/mi) CERT OK * * * JL GASOLINE- 0.019 4K * * FUEL TYPE GASOLINE-TI SFTP EXHAU FUEL TYPE NMOG+P (g/mi) * CERT * STD * CERT * STD * CERT * STD * GASOLINE-TI STD * CERT * CERT * STD * CERT * CERT * STD * CERT * STD * CERT *	### FUEL TYPE CERT ** FUEL TYPE FUEL TYPE STD ** FUEL TYPE FUEL TYPE STD ** FUEL TYPE FUEL TYPE STD ** GASOLINE CERT ** FUEL TYPE STD ** FUEL TYPE STD ** GASOLINE CERT ** FUEL TYPE STD ** GASOLINE CERT ** STD ** STD ** GASOLINE STD STD ** GASOLINE STD STD STD STD ** GASOLINE STD STD	EXHAUST AND EVAPORATIVE EMIS EXHAUST EMISSION STANDARDS A CH4: methane; NMOG: non- monoxide; NOx: oxides of nit adjustment factor; 2DHS/3DI ORVR [g HC/gallon dispense 1000 miles; F: degrees Fahre NMOG+NOx (g/mi) CERT STD CERT OK * * * * FUEL TYPE NMOG+NOx (g/mi) CERT STD CERT FUEL TYPE GASOLINE- LEV3 E10 SFTP EXHAUST EMISSION FUEL TYPE GASOLINE-TIER3 E10 COL SFTP EXHAUST EMISSION FUEL TYPE CERT * * STD * * STD * CERT STD O099PCA GASOLINE- LEV3 E10 ORVR (g/gallon) @ UL FUEL TYPE CERT STD O099PCA GASOLINE- LEV3 E10 ORVR (g/gallon) @ UL FUEL TYPE CERT STD O099PCA GASOLINE- LEV3 E10 ORVR (g/gallon) @ UL FUEL TYPE CERT STD O099PCA GASOLINE- LEV3 E10 ORVR (g/gallon) @ UL FUEL TYPE CERT STD O099PCA GASOLINE- LEV3 E10 ORVR (g/gallon) @ UL FUEL TYPE CERT STD O099PCA GASOLINE- LEV3 E10 ORVR (g/gallon) @ UL FUEL TYPE CERT STD O099PCA GASOLINE- ORVR (g/gallon) @ UL FUEL TYPE CERT STD	EXHAUST AND EVAPORATIVE EMISSION EXHAUST EMISSION STANDARDS AND CERT	EXHAUST AND EVAPORATIVE EMISSION STAN EXHAUST EMISSION STANDARDS AND CERTIFICA CH4: methane; NMOG: non-CH4 organic ga monoxide; NOx: oxides of nitrogen; HCHO: adjustment factor; 2DHS/3DHS [g HC/test]: ORVR [g HC/gallon dispensed]: on-board re 1000 miles; F: degrees Fahrenheit; FTP: fed (g/mi) (g/mi) CERT STD CERT STD OK * * * * * * * * * * * * * * * * * * *	CH4: methane; NMOG: non-CH4 organic gas; HC: monoxide; NOx: oxides of nitrogen; HCHO: formalde adjustment factor; 2DHS/3DHS [g HC/fest]: 2/3 days (DRVR [g HC/gallon dispensed]: on-board refueling volument factor; 2DHS/3DHS [g HC/fest]: 2/3 days (g/mi) (000 miles; F: degrees Fahrenheit; FTP: federal test	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocai monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; F adjustment factor; 2DHS/3DHS [g HC/Rest]: 2/3 days diurnal factor; 2DHS/2DHS/3DHS [g HC/Rest]: 2/3 days diurnal factor; 2DHS/2DHS/3DHS [g HC/Rest]: 2/3 days diurnal factor; 2DHS/2DHS/3DHS [g HC/Rest]: 2/3 days diurnal factor; 2DHS/2DHS/3DHS/2DHS/2DHS/2DHS/2DHS/2DHS/2DHS/2DHS/2	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: partic adjustment factor; 2DHS/3DHS [g HC/test]; 22] days diurnal-hot-soal ORVR [g HC/gallon dispensed]: on-board refueling vapor recovery; g: 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTF NMOG+NOX (g/mi) (g/mi) (g/mi) CERT STD CERT STD CERT STD CERT STD CERT IL GASOLINE- LEV3 E10 0.019 0.030 0.4 1.0 * * * * FUEL TYPE NMOG+NOX (g/mi) CERT STD FUEL TYPE NMOG+NOX (g/mi) CERT STD CERT STD GASOLINE-LEV3 E10 0.005 0.030 SFTP EXHAUST EMISSION STANDARDS AND CERTIFICATION LI US06 SC03 NMOG+NOX (g/mi) (mg/mi) (mg/mi) (g/mi) (g/mi) CERT * * * * * CERT * * * * * CERT * * * CERT * * * * CERT * * CERT * * * CERT * CERT STD FEL CERT STD FEL CON STANDARDS AND CERTIFICATION LI CERT STD FEL CON STANDARDS AND CERT STD GERT CERT STD FEL CERT STD CERT CERT STD CER	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFIC EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: n monoxide; NOx: oxides of nitrogen; HCH0: formaldehyde; PM: particulate adjustment factor; 2DHS/3DHS (gl HC/test); 22/ days diumal-hot-soak; RL ORVR (g HC/gallon dispensed); on-board refueling vapor recovery; g: gran 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: suj 1000 miles; FTP: federal test procedure; SFTP: suj 1000 mi	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20 CH4: methane; NMOG: non-CH4 organic gas; HC: hydrocarbon; NMHC: non-CH4 in monoxide; NOx: oxides of nitrogen; HCHO: formalderlyde; PM: particulate matter, Radion; 20HS/9DHS (g. HCHcset); 273 days diurnal-hot-soak; RL (g. HC/mil) ORVR (g. HC/gallon dispensed): on-board refueling vapor recovery; g. gram; mg. mill 1000 miles; F: degrees Fahrenheit; FTP: federal test procedure; SFTP: supplements FUEL TYPE NMOG+NOX (G/mil) (ERT STD CERT STD CERT STD CERT STD CERT STD (ERT STD CERT STD CERT STD CERT STD CERT STD (ERT STD CERT STD CERT STD CERT STD CERT STD (ERT STD CERT STD CERT STD CERT STD CERT STD (ERT STD CERT STD CERT STD CERT STD CERT STD CERT STD (G. 50K) FUEL TYPE GASOLINE-TIER3 E10 COLD CO NMOG+NOX (G/mil) (G/	EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS EXHAUST EMISSION STANDARDS AND CERTIFICATION LEVELS (FTP, HWFET, 50°F, 20°F) CH4: methane; MMOG: non-CH4 organic gas; HC: hydrocarbon; MMHC: non-CH4 HC; COr. and monoxide; NOx: oxides of nitrogen; HCH0: formaled/wide; PMI; particulate matter RAF: reaction adjustment factor; 2DHS/3DHS (g HC/hest); 2d days diumal+hol-soak; RL [g HC/mi]; running adjustment factor; 2DHS/3DHS (g HC/hest); 2d days diumal+hol-soak; RL [g HC/mi]; running adjustment factor; 2DHS/3DHS (g HC/hest); 2d days diumal+hol-soak; RL [g HC/mi]; running in 1000 miles; F; degrees Fahrenheit; FTP: federal test procedure; SFTP: supplemental FTP FUEL TYPE FUEL TYPE ONC * * * * * * * * * * * * * * * * * * *	



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Medium-Duty Vehicles

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EFFECTIVE LEAK DIAMETER STANDARD AND CERTIFICATION LEVEL (INCHES)									
EVAPORATIVE FAMILY	LEAK FAMILY	CERT	STD						
KNSKR0099PCA	KNSXR0099PCA-05E	*	0.02						

: 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

2019 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH	OBD
NISSAN	SENTRA	PC	1.8	CV1	KNSXR0099PCA	1	P