California Environmental Protection Agency

OB Air Resources Board

MAZDA MOTOR CORPORATION

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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 GR	OUP IN	FORMAT	ION					
MODE		EST G	ROUP	VEH	ICLE CLASS(E	LE CLASS(ES)			TEGORY	FUEL TYPE			
2017	7 HTKXV02.5CDB				PC	DEDI	DEDICATED SINGLE FUEL VEHICLE			GASOLINE			
l	JSEFUL	LIFE	(miles)	V	EHICLE EMIS	SION C	ATEGOR	Y	INTERIM / INT	ERMEDIA	TE IN-USE STD		
EXH	EXH/ORVR EVAP				FTP			SFTP			SFTP		
15	150000 150000			LEV	3 SULEV30	SULEV30 LEV 3 COMPOS		SITE *		NMOG+NOX			
SPE	CIAL FE	ATUR		IAUST EMIS	SION CONTRO	DĽ		OBD ST	ATUS	ENGINE	DISPLACEMENT (L)		
1	2	TWC, V	WU-TWC,	DFI, HO2S,	WR-HO2S	10	FUL	L	*				
*	* PARTIAL ALL MODELS								2.5				
*				*			PARTIAL		*				
			EV	APORATIVE	& REFUELING	G (EVA	P/ORVR)	FAMILY	INFORMATION	·			
EVA	P / ORV	R FAN	AILY .	EVAPORATI	VE STD CATE	GORY		AP EMIS	SION STD CLASS	SPECIA	L FEATURES		
HTKXR0115GDP LEV 3 OPTION					TION2 WITH	ON2 WITH FEL			:		HCT		
HTKXR0125GCM					LEV 2		PC		нст				
					EMISSION C	REDIT	INFORM	ATION					
	Α	LLOW	ANCE FO	R TEST GRO	OUP		IMOG CR				OPTIONAL EXH STD FOR WORK		
BASE	LINE P	ZEV	AT	PZEV	TZEV	NO	N-PZEV 2	ZERO-EV	AP DO	R	TRUCKS		
ALI	MODE	LS		*	*		. N		N		N		
				NM	OG AND FLEE	TAVE	RAGE INF	ORMAT	ION				
NMO(3/4/NMH())			HCHO/NMH RATIO	PC+LDT	NMOG+NOX FLEE PC+LDT (0-3750 L (g/mi)		LDT (3	NOX FLEET ST 3751 LVW-8500) + MDPV (g/mi	NMOG+NOX FLEET STD MDV (10001-14000 GVWR) (g/mi)				
*	*		1.10	*		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 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.

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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:

Evaporative family HTKXR0125GCM is certified pursuant to 13 CCR Section 1976(b)(1)(G)3 and deemed to comply with the requirements of 13 CCR Section 1976(b)(1)(G)1 ["LEV III evaporative requirements"].

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations.

This Executive Order hereby supersedes Executive Order A-016-0437-1 dated August 8, 2016.

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

Executed at El Monte, California on this

day of December 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

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0.05

0.05

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GASOLINE-

LEV3 E10 GASOLINE -

CA PHASE 2

0.2115

0.193

0.300

0.35

0.300

0.300

0.35

0.300

0.000

0.000

HTKXR0115GDP

HTKXR0125GCM

ATTACHMENT

EXHAUST AND EVAPORATIVE EMISSION STANDARDS AND CERTIFICATION LEVELS
TWO IS THE COURT OF THE COURT O

	EX	HAUS	TAN	EVA	PORAT	IVE EMI	SSION	STAN	DARD	SAND	CERT	FIC	ATION L	EVELS	
		EXI	HAUST	EMISSI	ON STAN	NDARDS A	ND CER	TIFICA	TION L	EVELS	(FTP, HW	FET,	50°F, 20°I	F)	
	F	moi adju OR		monoxid adjustme ORVR [g	e; NOx: o ent factor g HC/gallo	oxides of n ; 2DHS/3D on dispens	itrogen; H HS [g H(ed]: on-b	HCHO: C/test]: oard re	formalde 2/3 days fueling v	ehyde; P diurnal apor re	M: particu +hot-soak covery; g:	late r ; RL [gram	on-CH4 HC matter; RA (g HC/mi]: u; mg: millig plemental	F: reactive running leading ram; mi:	vity oss;
				NMOG+NOx (g/mi)			CO (g/mi)		NOx (g/mi)		HCI- (mg/		-	P (g/i	
	T.			CERT	STE	CER	T ST	D	CERT	STD	CER	T	STD	CERT	STD
FTP@50	50K *		* *		*	*	*		* *		*	*		*	*
FTP@U	11	GASOLI LEV3 I		0.018	0.03	0.2	1.	0	*	*	*		4	*	0.01
50°F @4	1161	GASOLI LEV3 1	1	0.035	0.06	0.2	1.	0	*	*	*		8		
	Pil				FUEL 1	TVDE			NN	IOG+N	Ox (g/mi)		C	O (g/mi)	
		5.0						CERT		STD		CERT		STD	
HWFE1	@ 5	0K		*				*		*	*				
HWFE	HWFET @ UL				GASOLINE-LEV3 E10					0.005 0.		30			
20°F	@ 501	K				CO LOW O							0.1		10.0
				SFTP E	KHAUST	EMISSION	NSTAND	ARDS	AND CE			EVEL			
- profession						US06			SC03					POSITE	
	FUE	L TYPE			OG+NOx g/mi)	(g/mi)		PM g/mi)	NMOG (g/i		CO (g/mi)		OG+NOx (g/mi)	CO (g/mi)	PM (mg/mi
@ 4K		*	CERT		*	*			*		*				
			STE	D *		*					*		X III		e duce to held
		С		RT *		*		*	*		*	(0.018	0.5	*
@ UL		OLINE-		D *		*	* *		*		*	* 0.103		4.2	*
			BIN	ejest.									0.040		
		W	HOLE	VEHICL	E EVAPO	RATIVE E	EMISSIO	N STAI	NDARDS	SAND	ERTIFIC	ATIO	N LEVELS	3	
						WHOLE	VEHICLE	EVAP	ORATIV	/E TEST	ING				
EVAP	ORAT		FUEL .	TYPE 3DHS (g/test) @ UL					2DHS (g/test) @ UL				RL (g/mi) @ UL		
				CERT		STD	FEL	CE	RT	STD	FEI	_	CERT		STD `

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ORVR / FU	EL ONLY / CA	NISTER	BLEED	EVAPORATIVE	EMISSION	STANDA	RDS AND	CERTIFIC	ATION LEV	ELS			
				FUEL ONLY EVAP & CANISTER BLEED									
EVAPORATIVE FAMILY	ORVR (g/gallon) @ UL			FUEL TYPE		IG TEST	2DHS R (g/test	IG TEST) @ UL	BLEED CANISTER TEST (g/test) @ 4K				
	FUEL TYPE	CERT	STD		CERT	STD	CERT	STD	CERT	STD			
HTKXR0115GDP	GASOLINE- TIER3 E10	0.001	0.20	GASOLINE- LEV3 E10	*	*	*	*	0.0056	0.020			
HTKXR0125GCM	GASOLINE - TIER 2 UNLEADED	0.009	0.20	GASOLINE - CA PHASE 2	0.04	0.0	*	0.0	*	*			

: 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; 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; 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; 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

2017 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	VEH CLASS	ENGINE (L)	TRANS TYPE	EVAPORATIVE FAMILY	EXH ECS	OBD	PZEV TYPE
MAZDA	MAZDA3	PC	2.5	SA6	HTKXR0115GDP	1	P	PZEV
MAZDA	MAZDA3	PC	2.5	SA6	HTKXR0125GCM	1	P	PZEV