California Environmental Protection Agency	
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EXECUTIVE ORDER A-328-0056

@ Air Resources Board

IMPCO TECHNOLOGIES, INC.

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles Page 1 of 2

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		ROUP VEHICLE TYPE EXHAUST EMISSION STANDARD CATEGORY					
2012	CZ9XT02.5DCA	LDT: <6000# GVW, 0-3750#	"LEV II" Super Ultra Low Emission Vehicle (LEV II	EXH / EVAI		Compressed Natural G		
2012		LVW	SULEV)	120K *				
No.	ECS & SPECIAL FEATURES		EVAPORATIVE FA		DISPLACEMENT (L)			
1	TWC, AFS,	HO2S, SFI, EGR, OBD(P)	CZ9XR000					
*		*	*	1. A.	2.5			
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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 October 2012.

Annette Hebert, Chief Mobile Source Operations Division

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					-	ATTA	CHI	VIEIN	1							
(F	EX or bi-, dual-		AND EV												ł.)	
AVERA	FLEET GE [g/mi]	NMOG @ RAF=* CH4 RAF = 0.0047		0.0047 NMOG or		hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mg=milligram										
CERT	STD	CERT CERT [g/ml] [g/ml]	NMOG NMHC CERT CERT	CERT STD					HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/mi]			
0.010	0.075		[g/mī]	CERT	STD	CERT		CE		TD	CERT	STD	CERT	STD		
1.1	@ 50K	18	*	*	*	*	*	*			*	*	*	*	*	
	@ UL	0.004	*	0.010	0.6	1.0	0.01	0.02	0.	0	4.	*	0.01	0.01	0.03	
200	50°F & 4K	*	*	*	*	*	*	*			*	*	*	*	*	
CO [g/m]] @ 20°F & 50K				NMHC+NO				C+NOx CO [g/mi] [US06] [US06]			NMHC+NOx [g/mi] [SC03]		CO [g/mi] [SC03]			
				CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
ERT	*	SETP	@* miles	*												
STD	•		@* miles	*	*		*	•	•		*	*	*	*		
Evaporative Family Solution 3-Days Diurnal + Hot Soak (grams/test) @ UL CERT STD			oak 2-Days Diurnal + Hot Soak Running L (grams/test) @ UL (grams/mile)													
			CERT	S	TD CERT STD		STD	CERT STD		STD	CERT		STD			
CZ9XR0000E1A		*				*			*	*						
*		*				*	*		*			•				
*		*		*			*						*			
* .			*		•	*			• •		*	•				
DT3=LD 0000#G LVW=a VU=warr TOX/PT	Dicable; UL= T 6001-8500 VWR; MDV5 djusted LVW; n-up catalyst; OX= continu nsor; EGR=e / multiport fu	#GVWR,3 =MDV 100 LEV=low NAC=NO ous/period exhaust gas el injection ct ozone re	751-5750#/ 01-14000#(emission version	ALVW; LDT GVWR; EC ahicle; ULE n catalyst; (zer; HO2S/ on; EGRC= t fuel injecti T=Hydroca	T4=LDT 6 S= emiss V=ultra L SCR-U/SC O2S=hea EGR coo ion; TC/S arbon Trap	001-8500# ion control EV; SULE CR-N= sele ated/oxyge ler; AIR/AI C= turbo/s p; BCAN=	#GVWR,5 I system; V=super ective cat n sensor; IRE=seco super cha bleed carl	STD= star STD= star ULEV; TW alytic redu AFS=(hea ndary air i rger; CAC bon canist	#ALVW; ndard; C C/OC=3 ction-ure ated) air- njection =charge er; prefix	MDV=me ERT= cer l-way/oxid ea/ammor fuel ratio (belt drive air coole c 2=paralle	edium-d tification lizing ca hia; NH3 sensor; en)/(elec r; OBD	uty vehicle; h; LVW=loa talyst; ADS SOC=ammo NOXS= N ctric driven) (F)/(P)(B)=	MDV4=M ded vehic TWC=ad onia oxida Ox senso ; PAIR=p full/partia	MDV 8501- cle weight; sorbing TV ition cataly: or; RDQS=r ulsed AIR; l/both on-b	VC; st; eductar SFI/MF	
sequentia	ed/liquefied	natural gas								-					-	
equentia		natural gas	20	12 MOD	EL YE	AR: VI	HICLE	MODE	ELS IN	FORM	ATIO	N				
equentia liagnostic ompress			20 MOE		EL YE	EVAP	ORATIVE		s E	NGINE SIZE (L)	VE	N HICLE YPE		CIAL URES	OBD	