

#### **FUJI HEAVY INDUSTRIES, LTD.**

EXECUTIVE ORDER A-002-0171

New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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	TEST GROUP VEHICLE TYPE		EXHAUST EMISSION USEFUL LIFE (miles)				FUEL TYPE	
2011	BFJXJ02.5PHL	Passenger Car	"LEV II" Low Emission Vehicle (LEV II LEV)	EXH / ORVR 150K	EVAP 150K	EXH	EVAP	Gasoline (Tier 2 Unleaded)	
No.	ECS & S	EVAPORATIVE		AF)		DISPLAC	EMENT (L)		
1	1 TWC(2), HAFS, HO2S, SFI, TC, AIR, CAC, OBD(P)		BFJXR0	1443DT					
*	*		2.5					25	
*									
*		*	·						

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, 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 test data to determine the greenhouse gas (GHG) emissions for the listed test group, expressed in grams per mile of carbon dioxide-equivalent (g/mi CO2-e), as required in section E.2.5.2 of the California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles, as amended August 4, 2005 (the Test Procedures). Manufacturer shall provide the required data within 45 days after the date of the Executive Order unless (a) an extension is granted by the Executive Officer, or (b) the manufacturer demonstrates to the satisfaction of the Executive Officer that it is exempt from determining GHG emissions for the listed test group under section E.2.5.3 (Intermediate Volume Manufacturers) or E.2.5.4 (Small Volume Manufacturers) of the Test Procedures. Failure to comply with the certification requirement to determine the GHG emissions for the listed test group 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 therein, the manufacturer is not required to determine GHG emissions for any medium-duty vehicles in the listed test group that are not medium-duty passenger vehicles.

#### BE IT FURTHER RESOLVED:

Additional NMOG fleet average or vehicle equivalent credits are granted to the listed vehicle models pursuant to 13 CCR Section 1961(a)(8) [optional 150K certification].

#### BE IT FURTHER RESOLVED:

The test group listed in this Executive Order is conditionally certified for vehicles produced before August 1, 2010 provided the vehicles have the air/fuel (A/F) sensor protection strategy as submitted to the Air Resources Board (ARB) on May 27, 2010. Vehicles produced after July 31, 2010 are not covered by this Executive Order unless the revised A/F sensor protection strategy is approved by ARB. In addition, vehicles produced before August 1, 2010 shall incorporate the revised A/F sensor protection strategy in a plan approved by ARB. The manufacturer shall report to ARB by August 31, 2011 the vehicle identification numbers (VINs) of vehicles produced before August 1, 2010 that do not have the revised A/F sensor protection strategy. Vehicles not having the revised A/F sensor protection strategy shall be subject to remedial actions under Title 13, California Code of Regulations, Chapter 2, Article 2.2 (recalls).

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#### BE IT FURTHER RESOLVED:

The listed vehicle models are conditionally certified in accordance with 13 CCR Section 1968.2(k) (deficiency and fines provisions for certification of malfunction and diagnostic system) because the on-board diagnostic II (OBD) system of the listed vehicle models has been determined to have three deficiencies. The listed vehicle models are approved subject to the manufacturer paying a fine of \$25 per vehicle for the third deficiency in the listed test group that is produced and delivered for sale in California. On a quarterly basis, the manufacturer shall submit to the Air Resources Board reports of the number of vehicles produced and delivered for sale in California and pay the full fine owed for that quarter pursuant to this conditional certification. Payment shall be made payable to the State Treasurer for deposit in the Air Pollution Control Fund no later than thirty (30) days after the end of each calendar quarter during the 2011 model-year production period. Failure to pay the quarterly fine, in full, in the time provided, may be cause for the Executive Officer to rescind this conditional certification, effective from the start of the quarter in question, in which case all vehicles covered under this conditional certification for that quarter and all future quarters would be deemed uncertified and subject to a civil penalty of up to \$5000 per vehicle pursuant to HSC Section 43154.

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 May 2010.

for Annette Heber

Annette Hebert, Chief

Mobile Source Operations Division



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 fue).

	NMOG FLEET NMOG @ RAF=* AVERAGE [g/mi] CH4 RAF = *		NMOG or	CH4=methane; NMOG=non-CH4 organic gas; NMHC=non-CH4 hydrocarbon; CO=carbon monoxide; NOx=oxides of nitrogen; HCHO=formaldehyde; PM=particulate matter; RAF=reactivity adjustment factor; 2/3 D [g/test]=2/3 day diurnal+													
CERT	STD	NMOG	NMHC	NMHC STD	hot-soak; RL [g/mi]=running loss; ORVR [g/gallon dispensed]=on-board refueling vapor recovery; g=gram; mi=mile; K=1000 miles; F=degrees Fahrenheit; SFTP=supplemental federal test procedure								ram; mg=millig	ram			
0.031	0.035		CERT CERT			CERT CERT CERT		[g/mi] CO [g/m		NOx [g/mi]		HCHO [mg/mi]		PM [g/mi]		Hwy NOx [g/ml]	
0.001	0.000	[g/mi]	[g/mi]	10	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD			
	@ 50K	0.042	*	0.075	1.5	3.4	0.03	0.05	0.4	15.	*	*	0.01	0.07			
	@ UL	0.054	*	0.090	2.5	4.2	0.05	0.07	0.5	18.		6.01	0.04	0.09			
	50°F & 4K	0.116	*	0.150	1.8	3.4	0.02	0.05	1.0	30.		*	*	*			

CO [g/mi] @ 20°F & 50K			NMHC+N (comp	Ox [g/mi] posite)	CO [	g/mi] posite)	NMHC [g/mi]		CO [			+NOx [SC03]		CO [g/mi] [SC03]	
			CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	CERT	STD	
CERT	3.6	SFTP @ 4000 miles	*	*	*	*	0.04	0.14	3.2	8.0	0.03	0.20	0.6	2.7	
STD	10.0	SFTP @ * miles	*	*	*	*	*		*	*	*	*	*	*	

Evaporative Family	3-Days Dium (grams/te	al + Hot Soak est) @ UL		nal + Hot So <b>ak</b> est) @ UL	Runnin (gr <b>am</b> s/m		On-Board Ref Recovery (gram			
	CERT	STD	CERT	STD	CERT	STD	CERT	STD		
BFJXR01443DT	0.25	0.50	0.38	0.65	0.00	0.05	0.04	0.20		
*	*	*	*	*	*	*	*	*		
*	*	*	*		*	*	*	*		
sk	*	*	*	•		*	*	*		

\* = not applicable; UL=useful life; PC=passenger car; LDT=light-duty truck; MDV=medium-duty vehicle; ECS= Emission Control System; STD= Standard; CERT= Certification; LVW=loaded vehicle weight; ALVW=adjusted LVW; LEV=low emission vehicle; TLEV=transitional LEV; ULEV=ultra LEV; SULEV=super ULEV; TWC=3-way catalyst; ADSTWC=adsorbing TWC; WU=warm-up catalyst; OC=oxidizing catalyst; O2S=oxygen sensor; HO2s=heated O2S; AFS/HAFS=air-fuel ratio sensor / heated AFS; EGR=exhaust gas recirculation; AIR=secondary air injection; PAIR=pulsed AIR; MFI= multiport fuel injection; SFI=sequential MFI; TBI=throttle body injection; TC/SC= turbo/super charger; CAC=charge air cooler; OBD (F)/(P)=full/partial on-board diagnostic; DOR=direct ozone reducing; prefix 2=parallel; (2) suffix=series; CNG/LNG= compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=\*85%\* Ethanol Fuel

# 2011 MODEL YEAR: VEHICLE MODELS INFORMATION

MAKE	MODEL	EVAPORATIVE FAMILY	ECS NO.	ENGINE SIZE (L)	INTERMEDIATE IN-USE COMPLIANCE (*=N/A or full in-use; A/E=exh. / evap. intermediate in-use)		PHASE-IN STD.	OB <b>D II</b>
					EXH	EVAP		
SUBARU	LEGACY AWD	BFJXR01443DT	1	2.5	*	*	SFTP	Partial