LAND ROVER GROUP LTD.

EXECUTIVE ORDER A-277-0025 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles

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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 and 39516 and Executive Order G-45-9;

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.

MODE					VEHICLE TYPE	EX STAI	HAUST EMISSION NDARD CATEGORY	FUEL TYPE					
2002	2	2LRXT02.5001			751-5750 Pounds Loaded Vehicle Wei Light-Duty Truck	jht Lov	v Emission Vehicle (LEV)	Gasoline					
No.	FAN	VAPORATIVE AMILY (EVAP)		No.	SPECIAL FEATURES & EMISSION CONTROL SYSTEM	S (ECS)	* = not applicable	TWC = 3-way catalytic converter WUTWC = warm-u TWC ADSTWC = adsorber TWC OC = oxidation					
1	2LR	2LRXR0124002			2TWC, 2HO2S(2)		catalytic converter O2S = oxygen sensor HO2S = heated O2S						
2		*			*								
3		*		3	*		MFi = multiport fuel injection SFI = sequential MFI TC/SC = turbo/super charger CAC = charge air seet						
4		•	•		*		OBD (F) / OBD (P) = on-board diagnosis; full / particompliance (prefix) 2 = parallel (2) (suffix) = set						
EVAP No.		ECS No.	ENGINE SIZE (L)		VEHICLE VEHI MAKES & MODELS STAN	CLES SUBJ	ECT TO SFTP	The series					
1	1		2.5		Land Rover Freelander								
*	•		*		*								
		* *				·	*						
				\dashv			*						

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows. Any debit in the manufacturer's compliance plan for "NMOG Fleet Average" (passenger cars and light-duty trucks) or "Vehicle Equivalent Credit" (medium-duty vehicles) shall be equalized as required. The 50° Fahrenheit standards and CERT levels are listed below or compliance has been met based on the manufacturer's submitted compliance plan in lieu of actual testing.

NMOG FLEET AVERAGE [g/mi]			NMOG [g/mi] @RAF = 0.94		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											
CERT	STO)	CH4 RAF = *		CC	Ţ	NOx [g/mi]		HCHO [mg/mi]			PM [g/mi]		Hwy NOx [g/mi]		
0.100	0.095 C		CERT	STD	CERT	STD	С	ERT	STD	CERT	STD	CER		TD	CERT	STD
K = 1000 miles	@	50K	0.034	0.100	0.5	4.4		0.1	0.4	1	18			•	0.02	0.5
	@ 100K		0.034	0.130	0.5	5.5	0.1	0.1	0.5	1	23	-		-	0.02	0.7
	@ 50°F	, 4K	0.179	0.200	0.7	4.4	(0.1	0.4	1	36	+	_	•	*	*
CO [g/mi] @ 20°F, 50K			g = g mg =	ram milligram	NMHC+NOx [g/mi] (composite)		NN	NMHC+NOx [g/mi] [US06]		CO [g/mi] [US06]		NMHO	NMHC+NOx [g/mi] [SC03]		CO [g/mi]	
CERT	CERT STD		mi = mile		CERT	STD	CI	ERT	STD	CERT	STD	CER	•	TD	CERT	STD
3.2	12.5		@ 4K		•	*	0	.10	0.25	6.4	10.5	0.05	05 0.27		0.4	3.5
F = degree Fahrenheit			@ 100K		•	•		•		*	•	*	+		•	•
@ 100K	EVAPORATIVE FAMILY 1				EVAPORATIVE FAMILY 2 EV				VAPORATIVE FAMILY 3 EVAPORATIVE FAMILY 4					11 🗸 🔏		
	3-D	2-D	RL	ORVR	3-D	2-D	RL	ORVE		2-D	RL	ORVR	3-D	2-D	RL	ORVR
CERT	0.8	0.7	0.001	0.04	•	•	•		*	*	*	•		1	+	+ OKVK
STD	2.0	2.5	0.05	0.20	•	*	•	•	-	*	•		*		 	
2-D, 3-D [g/	(test] = 2-da	ay, 3-da	ay diurnal	and hot-soak		RL [g/mi] =	runnin	g loss		ORVR [g/ga	illon of fue	l dispense	d] = on-bo	oard refu	eling vapor	recovery

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 (labeling), 1968.1 or 1968.1(m)(6.2) (on-board diagnostic systems; full or partial compliance), 2035 et seq. (emission control warranty), 2235 (fuel tank fill pipes and openings), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty

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 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division