Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL ENGINE FAMILY		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2001	1CEXL015.AAA	15.0	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Crane, Loader, Tractor, Dozer, Pump. Compressor and Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
CLASS			HC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
225 <u>≤</u> KW < 450	Tier 2	\$TD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL					0.15			
		CERT			5.8	0.4	0.06	14	1	40

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the •manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

This Executive Order hereby cancels and replaces Executive Order U-R-002-0070-1 dated October 1, 2001.

Executed at El Monte, California on this

day of October 2001.

R. B. Summerfield, Chief Mobile Source Operations Division

ATTACHMENT

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Engine Model S mmary Form

U-R-002-007-2

Manufaclurer:	Cummins Engine Company, Inc.				
Engine category:	Nonroad Cl				

EPA Engine Family: 1CEXL015.AAA

Mfr Family Name: A103

Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
2825-FR10318	OSX15-C	600@1800	328	199	2050@1400	417	197 000	
2825-FR10320	QSX15-C	600@2100	294	208	2050@1400	415	196 🦷	PCM,TC,CAC
2825:FR10371	QSX15-C	440@2000	222	149.8	1650@1400	348	164.5	PCM,TC,CAC
2825:FR10316	QSX15-C	425@2100	210	148.5	1450@1400	297	140.3	PCM,TC,CAC
2825:FR10319	QSX15-C	425@2100	210	148,5	4435@1400	294	138.8	PCM,TC,CAC
2825:FR10345	QSX15-C	380@2100	193	136.7	1161@1400	233	109.8	PCM,TC,CAC
2825:FR10372	QSX15-C	375@2000	194	130.8	1380@1400	280	132.4	PCM,TC,CAC
2825:FR10317	QSX15-C	360@2100	186	131.7	1215@1400	244	115.4	PCM,TC,CAC
2825:FR10380	QSX15-C	350@2100	180 statistica	127.7	1180@1400	239	112.7	PCM,TC,CAC
2825:FR10375	OSX15-C	560@1800	314	190,5	2050@1400	4 17	197.0	PCM,TC,CAC
2825;FR10342	QSX15-C	460@1800	254	154,3	1743@1400	356	168.1	PCMTC,CAC
2825:FR10346	QSX15-C	440@1800	244	147.8	1650@1400	348	164.5	PCM,TC,CAC
2825:FR10376	- OSX15-C	540@2100	264	187.2	1730@1400	357	168.5	PCM,TC,CAC
2825:FR10377	QSX15-C	525@2100	259	183.7	1743@1400	375	177.1	PCM,TC,CAC
2825:FR10310	OSX15-C	500@2100	243	172.4	1743@1400		177.1	PCM,TC,CAC
2825:FR10378	QSX15-C	475@2100	238	168.2	1743@1400	375	177.1	PCM,TC,CAC
2825:FR10379	OSX15-C	400@2100	201	. 142.0	1453@1400	302 . '	1,42.8	PCM,TC,CAC
2825:FR10381	QSX15-C	530@1800	252	178.4	1706@1400	343		PCM,TC,CAC
2825:FR10383	QSX15-C	510@1800	242	171.1	1743@1400	375	177.1	PCM,TC,CAC
2825:FR10384	QSX15-C	425@1800	198	140.2	1452@1400	287	135.6	PCM,TC,CAC
2825:FR10385	QSX15-C	360@1800	172	121.8	1230@1400	243	114.8 - V	PCM,TC,CAC

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