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 YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
2002	2CEXL060.ABA	45, 60	Diesel	8000		
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
Direct Dies	el Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Generator Set			

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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				EXHAUST (g/kw-h	nr)		OF	ACITY (%	•)
POWER CLASS	STANDARD		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
KW > 560	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	N/A	N/A	N/A_
	1	CERT	0.3	7.5		1.0	0.18			<u>                                   </u>

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.

Executed at El Monte, California on this

R. B. Summerfield, Chief Mobile Source Operations Division

day of December 2001.

## Engine Model & nmary Form AMMENT

U-R-002-0153

Cummins Inc. Manufacturer:

Engine category:

Nonroad CI 2CEXL060.ABA EPA Engine Family:

Mfr Family Name: B593

New Submission Process Code:

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/lut) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE J1930
2920:FR6358	QSK60.G6	3067@1800	639	1035	N/A	N/A	NA DID.	II, ECHTC, CAC "
2920:FR6364	QSK60-G6	2922@1800	602	975	N/A	N/A	N/A	EG TC,CAC
2920:FR6371	QSK60-G6	2922@1800	627	1015	N/A	N/A	Ϋ́N	EG/TC,CAC
2920;FR6346	QSK60-G5	2547@1800	511	827	N/A	N/A	N/A	EC TO,CAC
2920.FR6347	QSK60-G5	2547@1800	536	868	N/A	A/N	N/A	EC¦TC,CAC
2935;FR6316	QSK45-G8	2205@1800	592	719	N/A	N/A	A/N	Ed,TC,CAC
2935,FR6336	QSK45-G7	1991@1800	599	684	N/A	N/A	A/N	EG,TC,CAC
2655:FR6317	QSK45-G4	1823@1500	578	585	N/A	NA	A/N	EC <sub>1</sub> TC,CAC
2655.FR6317	QSK45-G4	1850@1800	503	611	N/A	N/A	プマン	EC'TC,CAC
SECOND PRODUCTION OF THE PRODU								