Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE 1	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS ²	ECS & SPECIAL FEATURES 3							
2005	5CEXH0661MAU	10.8	Diesel	Diesel	HHDD	PCM, EGR, DDI, TC, CAC							
ENGINE (L	L)		ENGINE M	ODELS / CODES (r	ated power, in hp)								
10.8				See Attachme	ent								
*	·												
*				*									
*				*									

=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal =litter; hp=horsepower; kw=kllowatt; Regulations, Sect

L=ilter; hp=horsepower; kw=kilowatt;

CNg/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;

L/M/H HDD=light/medium/heavy heavy-duty diesel; UB=urban bus; HDO=heavy duty Otto;

ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DFF=diesel particulate filter; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/airfuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel hipection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; GCARB=gaseous carburetor; IDI/DDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

(2004/may26)

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus); 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR 1956.1 or 13 CCR 1956.8 are in parentheses.)

	NN	инс	N	Ox	NMH	C+NOx		00	PI	И	H	СНО	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	
STD	0.5	0.5	*	*	*	*	15.5	15.5	0.10	0.10	*	*	
FEL	*	*	*	*	2.4	2,4			•	*	*	*	
CERT	0,2	0.1	*	*	2.0	2,1	0.8	0.4	0.10	80.0	*	*	
NTE	0.	625		*	3	3.0	19	.375	0.1	25	*		

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde;

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: For the listed engine models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels) and 13 CCR 2035 et seq. (emission control warranty).

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

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-0385 dated December 20, 2004.

Executed at El Monte, California on this day of December 2004.

Allen Lyons, Chief

Mobile Source Operations Division

sphoel Swarairy

Cummins Inc. Manufacturer:

Engine category: On-highway HDDE EPA Engine Farrily: 5CEXH0661MAU Mfr Family Name: 353U

New Submission Process Code:

		8	<u>)</u>																					A.	-0.	/د	-c	30 1	PS	 ,
	9.Emission Control 9 Device Per SAF 11930			PUM, EGH, 1C,	PCM, EGR, TC,	PCM, EGR, TC,	PCM, EGR, TC,	PCM EGR TC	PCM FGR TC	PCM FGR TO	DOM EGD TO	יסון, במין, דכן. מא מטון	FUM, EGH, 10,	PCM, EGH, 1G,	PCM, EGR, TC,	PCM, EGR, TC,	PCM, EGR, TC,	PCM EGB. TC	PCM EGR TO	POM EGR TC	DOM EGO TO	TOT TOD TO	10: EGH, 10,	PCM, EGR, TC,	PCM, EGR, TC,	PCM, EGR, TC,	/ PGM, EGR, TC, ,			
	8.Fuel Rate: (lbs/hr)@peak torque	144 pp		06	8	63	- 66	93	93	66	90	00	n (S	66	66	93	93	76	100	100	3	70	92	85	92	> 96			
7.Fuel Rate:	mm/stroke@peak torque	244	766	201	. 744	229	229	229	229	244	237	244	1 CCC	622	229	229	229	230	188	210	210	LOT	101	450	194	194	202			
	6.Torque @ RPM (SEA Gross)	1250@1200	1900@1900	1250@1.200	POZ LABINOZ L	1150@1200	1150@1200	1150@1200	1150@1200	1250@1200	1200@1200	1250@1200	1150@1200	1100@1200	1150@1200	1150@1200	1150@1200	1150@1200	925@1200	1250@1200	1250@1200	1150@1500	145001000	1130(@1200	1,50@1200	1150@1200	1200@1200			
5.Fuel Rate:	(for diesels only)	131	131	101	177	114	114	114	114	131	131	121.	114	2.7	114	114	114	123	114	136	127	190	190	071	120	120	139			
4.Fuel Rate:	mm/stroke @ peak HP (for diesel only)	215	216	100	103	78/	188	188	188	215	216	199	187	881	001	188	188	203	188	190	178	166	166	000	991	166	194			
	3.BHP@HPM (SAE Gross)	370@1800	380@1800	340001800	34004000	319(@1800	320@1800	320@1800	320@1800	370@1800	380@1800	340@1800	319@1800	320@1800	2007-000	320K@1600	320@1800	330@1800	291@1800	370@1800	340@1800	320@1800	320@1800	000000000	Sevierious	320@1800	380@1800			
	2.Engine Model	ISM 330ST	ISM 380	ISM 330	IQM 910	USINI STO	ISM 32UV	ISM 285V	ISM 280	ISM 330ST	ISM 380	ISM 330	ISM 310	ISM 320V	IEM 99EV	FOIN ZOUY	ISM 280	ISM 330	ISM 280	ISM 330ST	ISM 330	ISM 310	ISM 280	VACE MSI	AOSO MOI	V685 Mici	ISM 380			
	1.Engine Code	8273;FR2961	8273;FR2985	8273;FR2975	8973:FB2076	0079/11/23/0	02/17/1/2001	8273;FH2982	8273,FR2962	8505;FR2961	8505;FR2985	8505;FR2975	8505;FR2976	8505;FR2981	REDS: FROGRO	SECENTIAL SECTION OF THE SECTION OF	0303,FR2962 3F40,FB5994	3340,FRZ0015	3540;FR20016	8556;FR2961	8556;FR2975	8556,FR2976	8556;FR2962	R556-FR2981	OFFE:FDDDDD	2922410000	8556;FH2985			