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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-155

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 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 Cummins Engine Company, Inc. 1996 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

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Engine Family	<u>Liters (</u>	<u>Cubic Inches)</u>	Exhaust Emission Control <u>Systems and Special Features</u>
TCE661EJDASW (353B)	10.8	(661)	Powertrain Control module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The certification exhaust emission standards for this engine family in grams per brake horsepower-hour are:

Total	Carbon	Nitrogen	<u>Particulates</u>	
H <u>ydrocarbons</u>	<u>Monoxide</u>	_ <u>Oxides_</u>		
1.3	15.5	5.0	0.10	

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

Engine	Total	Carbon	Nitrogen	<u>Particulates</u>
Fa <u>mily</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	
TCE661EJDASW (353B)	0.2	1.4	4.2	0.07

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.). 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 order and attachments.

Executed at El Monte, California this $\frac{29}{4}$ day of November 1995. nulul

4R. B. Summerfield Assistant Division Chief Mobile-Source Division

E.O. # <u>A-21-155</u>

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1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer <u>Cummins Engine Company, Inc.</u>	Engine Famil	<u>y (353B) TCE</u> / <u>661</u> Cu	661EJDASW bic Inches
Displacement:/ 10.8 Liters		e Configura	tion: I-6
330 HP @ 1800	KEN Dugen	Spa	rk
~ 4 ~ 4 \vee Flex-Fuel Dual-Fue.	Diesci-	<u></u>	
40 CFR 86.1	313-90	40 CFR 00	, 1515 74 <u>4</u>
Primary Intended Service Class: LHDMHD	HHD X	Urba	n Bus
primary Intended Service Cramer			
Exhaust ECS (include.MFI, TC, CAC): PCM (TC, CA (use abbrev	C) iations per Si	AE J1930 SEP	91)
Fuel Pump		EGR Valve	PTOX / Catalytic

Engine Model (Eng Code)	Rated HP @ RPM	<pre>@ Rated HP mm3 / stroke (lbs/hr)</pre>	& Injector Part No.	ECM/PCM Part No.	Part No.	Converter Part No.
M11-330E (1855)	330 @ 1800	172 (105)	3084589 3087557	3084473	N/A	N/A
M11-310E (1855)	310 @ 1800	161 (98)	3084589 3087557	3084473	N/A	N/A
M11-280E (1855)	280 @ 1800	146 (89)	3084589 3087557	3084473	N/A	N/A
M11 ESP I (1855)	280 @ 1800	146 (89)	3084589 3087557	3084473	N/A	N/A
M11 ESP II (1857)	310 @ 1800	161 (98)	3084589 3087557	3084473	N/A	N/A
M11-315ESP (1857)	315 @ 1800	166 (101)	3084589 3087557	3084473	N/A	N/A
M11-320E (1855)	320 @ 2000	157 (106)	3084589 3087557	3084473	N/A	N/A
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Date Issued:

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Revisions: