		EXECUTIVE ORDER A-330-01/0
California Environmental Protection Agency	BAYTECH CORPORATION	New On-Road Heavy-Duty Engines
AIR RESOURCES BOARD	······································	

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	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS <sup>2</sup>	ECS & SPECIAL FEATURES 3
		8.1	LPG	Otto	нро	TWC, 2HO2S, SFI
2007	7BYTH08.1P12			ODELS / CODES (	ated power, in	n hp)
ENGINE (	L)		ENGINE	L18 / 10 (225), 20		
8.1				L18/10(225), 20	(213)	
				•		
L				*		
•				*		
· •	1					22 Jun Title 40, Certa of Fadaral Regulations, Section 86 abc:
* =not appli L=liter: hp=	icable; GVWR=gross vehic horsepower; kw=kilowatt;	cle weight rating; 13 CC	R xyz=Title 13, California Coc	ie of Regulations, Sec	tion xyz;40 CFf	R 86.abc=Title 40, Code of Federal Regulations, Section 86.abc; thi fuel: DF=dual fuel; FF=flexible fuel;

CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.

CNG/LNG=compressed/liqueted natural gas; LPG=liquetied petroleum gas; E85=85% etnanol tuel; MF=multi fuel a.K.a. BF=bi fuel; DF=oual fuel; FF=textole fuel; ///// 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; DPF=diesel particulate filter; HO2S/O2S=heated/oxygen sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throtite body fuel injection; 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 putfilmiter; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2) (suffix)=in series;

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.)

T		Nov		NMHC+NOx		со		PM		нсно	
<b></b>		<u> </u>			FTP EURO	FTP	EURO	FTP	EURO		
FTP	EURO	FIP	EURO				÷ *	•		•	*
•	•	*		1.0		31.1	<u>↓</u>	•	· · · · · †	+	•
•	•	•	*	*	· · · · · · · · · · · · · · · · · · ·				<u> </u>		· · ·
•	•	•	•	0.9	*	8.7					*
	•	Γ	*		•		*		<u> </u>		
	NN FTP *	NMHC FTP EURO			FTP EURO FTP EURO FTP   * * * * 1.0   * * * * *   * * * * *   * * * * *	FTP EURO FTP EURO FTP EURO   • • • • 1.0 •   • • • • • • •   • • • • • • • •   • • • • • • • •	NMHC NOX NMHC NOX   FTP EURO FTP EURO FTP   * * * 1.0 * 37.1   * * * * * * *   * * * * * * * *   * * * * * * * * *	NMHC NOX NMHC NOX   FTP EURO FTP EURO FTP EURO   * * * 1.0 * 37.1 *   * * * * * * * * *   * * * * * * * * *   * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * <t< td=""><td>NMHC NOx NMHC NOX COUNT <th< td=""><td>NMHC NOx NMHC+NOX CC FTC EURO FTP EURO <th< td=""><td>NMHC NOx NMHC+NOx CO Imm EURO FTP   FTP EURO FT</td></th<></td></th<></td></t<>	NMHC NOx NMHC NOX COUNT <th< td=""><td>NMHC NOx NMHC+NOX CC FTC EURO FTP EURO <th< td=""><td>NMHC NOx NMHC+NOx CO Imm EURO FTP   FTP EURO FT</td></th<></td></th<>	NMHC NOx NMHC+NOX CC FTC EURO FTP EURO <th< td=""><td>NMHC NOx NMHC+NOx CO Imm EURO FTP   FTP EURO FT</td></th<>	NMHC NOx NMHC+NOx CO Imm EURO FTP   FTP EURO FT

group-in -grans per prave noise power nour, FiF-Federal rest nocedure, EDRO-Euro in European Steasy-State Cycle, NTE-Indire-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.

Executed at El Monte, California on this

day of February 2007.

Annette Hebert, Chief Mobile Source Operations Division