

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-14-012;

**IT IS ORDERED AND RESOLVED:** That the following engine and emission control systems produced by the manufacturer are certified for use in small 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 (cc)	ENGINE CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)
2017	HN5XS.6532LC	653	4-stroke, ≥225 cc	LPG
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION	
500	TWC, PAIR		Generator Set	
ENGINE CODES/MODELS (rated power in kilowatt, kW)	See Attachment			
ABBREVIATIONS: EM=engine modification TWC/OC=three-way/oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multi port fuel injection SFI=sequential MFI TBI=throttle body fuel injection DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2(prefix)=parallel (2)(suffix)=in series ECM=engine control module				

The following are the hydrocarbon plus oxides of nitrogen (HC+NO<sub>x</sub>), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with Section 1054.115(a) of the "California Exhaust Emission Standards and Test Procedures for New 2013 and Later Small Off-Road Engines," adopted October 25, 2012.

*=not applicable	HC+NO <sub>x</sub> (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	8.0	549	*
FAMILY EMISSION LEVEL	5.5	549	*
CERTIFICATION LEVEL	3.4	222	*

**BE IT FURTHER RESOLVED:** That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the 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 2403(e)(1) and 2407(a).

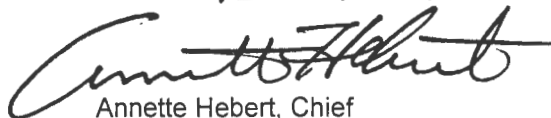
**BE IT FURTHER RESOLVED:** That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

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

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

**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 13 day of May 2016.



Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

Model Year: 2017  
 Manufacturer: Cummins Power Generation  
 Engine Family: HN5XS.6532LC

Issued:  
 Revised: 3/22/2016  
 E.O. Number: U-U-008-0283

**Small Off-Road Engine Model Summary Form**

Units for Table: kw

47. Worst Case?	48. Model Designation	49. Sales Code	50. Displ (cc)	51. Bore/Stroke	52. Ignition Timing	53. Max Power	54. Rated Speed (RPM)	55. Rated Torque	56. Torque Speed (RPM)	57. Emiss Control Sys
	5.5HGJAB-1119	50-State	653	80/65	20	8.47	2400	34.5	2400	TWC, PAIR
X	5.5HGJAB-1270	50-State	653	80/65	20	8.47	2400	34.5	2400	TWC, PAIR
	5.5HGJAB-1381	50-State	653	80/65	20	8.47	2400	34.5	2400	TWC, PAIR
	5.5HGJAE-2144	50-State	653	80/65	20	8.47	2400	34.5	2400	TWC, PAIR
	5.5HGJAE-3255	50-State	653	80/65	20	8.47	2400	34.5	2400	TWC, PAIR
	6.5HGJAB-904	50-State	653	80/65	20	9.57	2880	32.3	2880	TWC, PAIR
	6.5HGJAB-915	50-State	653	80/65	20	9.57	2880	32.3	2880	TWC, PAIR
	6.5HGJAE-2145	50-State	653	80/65	20	9.57	2880	32.3	2880	TWC, PAIR
	6.5HGJAE-3256	50-State	653	80/65	20	9.57	2880	32.3	2880	TWC, PAIR
	6.5HGJAE-3554	50-State	653	80/65	20	9.57	2880	32.3	2880	TWC, PAIR
	6.5HGJAE-4665	50-State	653	80/65	20	9.57	2880	32.3	2880	TWC, PAIR

