

DOCKETED

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Project Title:	Great Oaks South Backup Generating Facility Small Power Plant Exemption
TN #:	234962
Document Title:	DPF Specifications for Life Safety Generators - GOSBGF
Description:	N/A
Filer:	Scott Galati
Organization:	DayZenLLC
Submitter Role:	Applicant Representative
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Cummins Pacific – Equinix SV-11, House Gen

September 24, 2020

APPLICATION DESCRIPTION:

Engine Model: Cummins 500 DFEK, QSX15-G9
Quantity: 1
RPM: 1,800 RPM
Power Rating: 500 kW
Electrical: 480v 3 Phase
Design Exhaust Flow Rate: 3625 CFM
Max Temperature: 901F
Engine Duty: Standby
Lube Oil Specification: .5% wt% sulfated ash or less
Lube Oil Consumption: Per Cummins specifications
Engine Family: KCEXL015.AAJ

RYPOS PRODUCT SPECIFICATION:

MODEL #: RH410-L, Part # TBD
System Data: Active filter with Diesel Oxidation Catalyst
Housing Construction: 304 Stainless Steel
Filter Connections: per Installation Requirement
DOC Connections: per Installation Requirement
Acoustical Spec: Critical Grade attenuation (25 to 35 dba)
System Power Requirements: 480v 3-Phase; 8KW max load, 4KW average
Verification: CARB Level 3+

Emissions Summary for a Degreened Rypos Filter and Rated Engine Load

Exhaust Gases	Engine Output	Reduction	System Output	Area Limits
CO	0.4 gm/bhp-hr	85%+	0.06 gm/bhp-hr	TBD
NOx + NMHC	4.3 gm/bhp-hr	N/A	4.3 gm/bhp-hr	TBD
PM10	0.10 gm/bhp-hr	85%+	meets 0.01 gm/bhp-hr	CARB Level 3 +

PM emission standard*

*complies with the 0.01 g/bhp-hr PM emission standard of 17 CCR §§ 93115.6 – .9 and SCAQMD Rules 1470(c)(2) – (c)(8)