Facilities Development Division *www.oshpd.ca.gov/fdd*
400 R Street. Suite 200, Sacramento, California 95811-6213 Phone (916) 440-8300 Fax (916) 654-2973

APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.

OSP – 0259-10

Check whether application is: NEW [X] RENEWAL [ ]

1.0

Peterson Power Systems	Don Whitehead
Manufacturer	*Manufacturer's Technical Representative*

2828 Teagarden St., San Leandro, CA 94577

Mailing Address

510-618-5548	dcwhitehead@petersonpower.com
Telephone	*E-mail Address*

2.0

Diesel Generator Set	Electrical Power Generator
Product Name	*Product Type*

C175-16

Product model No (List all unique product identification numbers and/or serial numbers)

General Description: Diesel powered electrical generator mounted at base on external spring isolators. Approval is limited to units identical to tested unit in the tested configuration.

3.0

The VMC Group	John Wilson
Applicant Company Name	*Contact Person*

113 Main St, Bloomingdale NJ, 07403

Mailing Address

973-838-1780	jwilson@thevmcgroup.com
Telephone	*E-mail Address*

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.

	3/18/2012
Signature of Applicant	*Date*
CEO	The VMC Group
Title	*Company Name*

Registered Design Professional Preparing the Report

4.0

The VMC Group
Company Name

Mr. Kai Yin Ho | SE4941
Contact Name | *California License Number*

113 Main St, Bloomingdale, NJ 07403
Mailing Address

973-838-1780 | silas.ho@thevmcgroup.com
Telephone | *E-mail Address*

California Licensed Structural Engineer Review and Acceptance of the Report

5.0

Panache Engineering
Company Name

Mr. Kai Yin Ho | SE4941
Contact Name | *California License Number*

113 Main St, Bloomingdale, NJ 07403
Mailing Address

973-838-1780 | silas.ho@thevmcgroup.com
Telephone | *E-mail Address*

Anchorage Pre-Approval

6.0

☐ *Anchorage is pre-approved under OPA-*
(Separate application for anchorage pre-approval is required)

☒ Anchorage is not Pre-approved

Certification Method

70.

☒ *Testing in accordance with:* ☒ *ICC-ES AC-156* ☐ *Other (Please Specify):*

☐ *Analysis*
☐ *Experience data*
☐ *Combination of Testing, Analysis, and/or Experience Data (Please Specify):*

Testing Laboratory (if applicable)

8.0

PEER, UC Berkeley | Wesley Neighbour
Company Name | *Contact Name*

1302 South 46th St., Richmond Ca 94804
Mailing Address

510-665-3409 | wdn@berkeley.edu
Telephone | *E-mail:*

9.0 ***Approval Parameters*** ☑

Design in accordance with ASCE 7-05 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = 2.25

S_{DS} (Spectral response acceleration at short period) = 1.0g

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio)= 1.0

Equipment or Component fundamental period(s) =See Attached

Building period limits (if any) =N/A Sec

Overall dimensions and weight (or range thereof) = See Attached

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Spectral response acceleration at short period) =

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient)=1.0

Ω_0 (System overstrength factor) =1.0

C_d (Deflection amplification factor) =1.0

I_p (Importance factor) =1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007: ☐ Yes ☒ No

10.0 ***List of attachments supporting the special seismic certification of equipment or components:***

☒ *Test Report* ☐ *Drawings* ☒ *Manufacturer's Catalog*

☐ *Calculations* ☐ *Others (Please Specify):*

11.0 ***OSHPD Approval*** *(For Office Use Only)*

3/20/2012	**December 31, 2016**
Signature & Date	*Approval Expiration Date*
M. R. Karim, SHFR	S_{DS} (g) = **1.0** z/h = **1.0**
Name & Title	*Special Seismic Certification Valid Up to*

Condition of Approval (if any):

Special Seismic Certification for Caterpillar Diesel Generator Set

UUT #1 Summary

Model	Rating (kw)	Radiator [1]	Engine	Alternator Terminal Box	Controls	Length (in)	Width (in)	Height (in)	Max Weight (lbs)	External Isolators [2]	S_{DS}	z/h
C175-16	2725	IEA EC-100	Caterpillar	Leroy-Somer	Caterpillar EMCP Controller	323	125	153	56100	The VMC Group M2SSH	1.00	1.00

UUT #1

Lowest Natural Frequency		
x	y	z
1.60	1.90	4.10

THE VMC GROUP
The Power of Together™