



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.

OSP – 0189-10

Check whether application is: NEW RENEWAL

1.0 Kohler Power Systems Ms. Beth Splittgerber
 Manufacturer Manufacturer's Technical Representative
 444 Highland Dr, Kohler, WI 53044

Mailing Address

920-565-3381

Telephone

beth.splittgerber@kohler.com

E-mail Address

2.0 Kohler Power Generators Electrical Power Generator
 Product Name Product Type

1250 REOZDC

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

General Description: Diesel Powered electrical generator with an MTU engine and Kato alternator. Approval is limited to rigid installations. Approval is limited to units identical to tested unit with mounting equivalent to tested unit.

3.0 The VMC Group John P. Giuliano, PE
 Applicant Company Name Contact Person
 113 Main St, Bloomingdale NJ, 07403

Mailing Address

973-838-1780

Telephone

john.giuliano@thevmcgroup.com

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.

Signature of Applicant

5/10/11

Date

President

Title

The VMC Group

Company Name

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Registered Design Professional Preparing the Report

4.0 The VMC Group
Company Name

Samantha Kersting, SE C57001
Contact Name *California License Number*

113 Main St, Bloomingdale, NJ 07403
Mailing Address

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

California Licensed Structural Engineer Review and Acceptance of the Report

5.0 The VMC Group
Company Name

Samantha Kersting, SE S4642
Contact Name *California License Number*

113 Main St, Bloomingdale, NJ 07403
Mailing Address

973-838-1780 samantha.kersting@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

7.0 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. Bldg 420, Richmond, CA 94804
Mailing Address

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

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Approval Parameters

9.0

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

Design Basis of Equipment or Components (F_p/W_p) = 0.75 g

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

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) = 0.0

Equipment or Component fundamental period(s) = See attachment

Building period limits (if any) = N/A

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

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)

<p style="text-align: center; margin: 0;">Signature & Date M. R. Karim, SHFR</p> <p style="text-align: center; margin: 0;">Name & Title</p>	<p style="margin: 0;">5/11/2011</p>	<p style="margin: 0;">December 31, 2016</p> <p style="margin: 0;">Approval Expiration Date</p>
<p style="margin: 0;">Condition of Approval (if any):</p>	<p style="margin: 0;">S_{DS} (g) = 1.0</p>	<p style="margin: 0;">z/h = 0.0</p> <p style="margin: 0;">Special Seismic Certification Valid Up to</p>

Special Seismic Certification
for
KOHLER POWER SYSTEMS
1250 kW REOZDC AC Generator



SHAKE TESTED UNIT

MODEL	Genset Style	Length [in]	Width [in]	Height [in]	Measured Operating Weight [lbs]	Engine	Alternator	Controller	SDS Level	z/h	Mounting Config.
1250 kW REOZDC	Open Genset	184.6	58.6	89.6	26,395	MTU Model # 12V4000G43	KATO Model # AA28458000	Kohler Model # DEC550	1.00	0.0	Rigid

Genset was not tested with a fuel tank



The 1250 kW REOZDC generator skid is anchored to the test fixture with 8-7/8" diameter A490 bolts (4 per side).

UUT1	Frequency (Hz)			SDS			CBC factors for Seismic Design		
	S-S	F-B	Vert	SDS	z/h	ap	Rp	lp	
1250 kW REOZDC	8.4	7.1	10.3	1	0	2.5	2	1.5	

F-B (Front-Back) has motion in the short, transverse, direction of the unit.

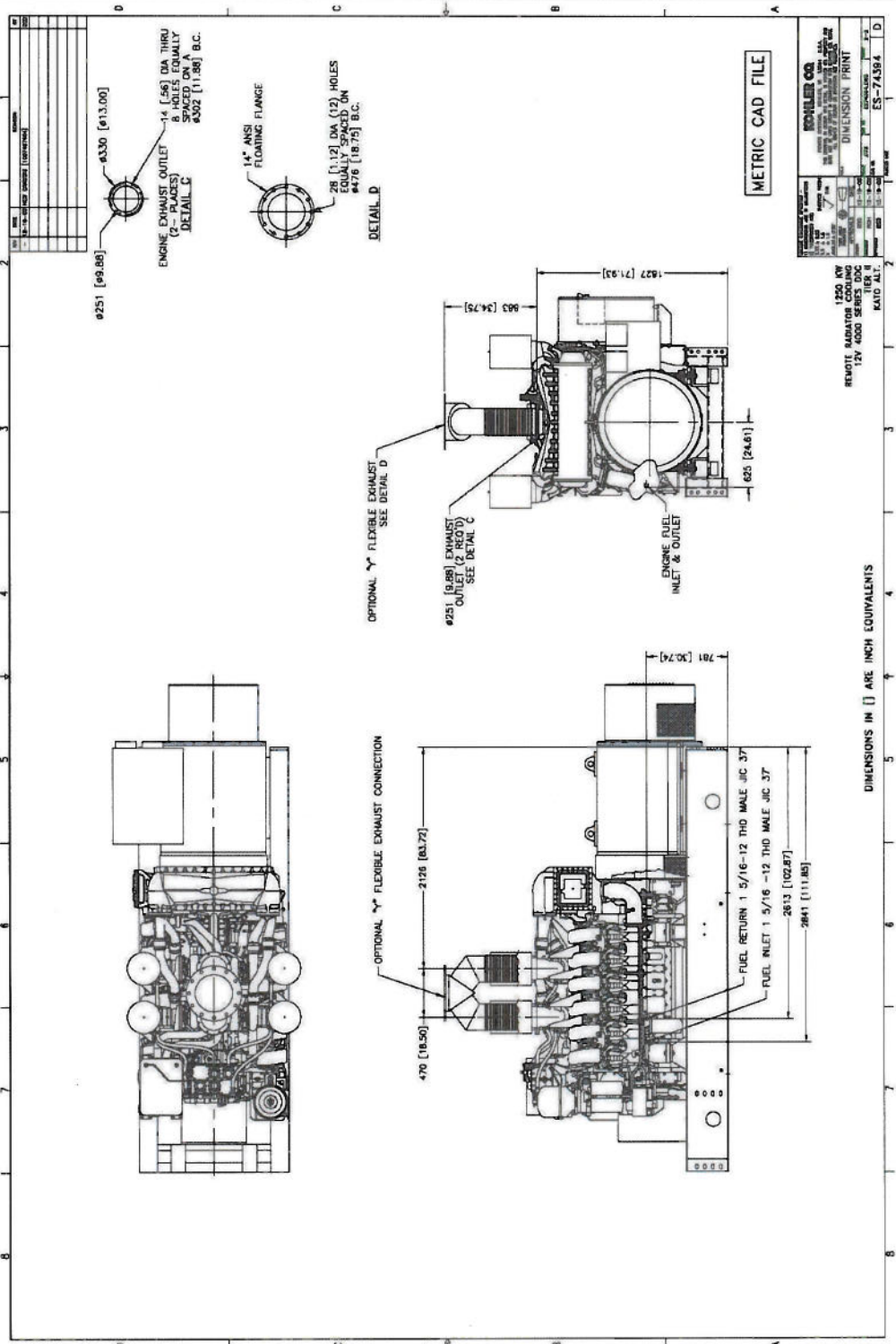


Figure 2. Elevation and plan views of UUT1

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