



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.
OSP – 0126-10

Check whether application is: NEW RENEWAL

1.0	Professional Power Products <i>Manufacturer</i>	Michael Roll <i>Manufacturer's Technical Representative</i>
	<i>Mailing Address</i>	
	<i>Mailing Address</i>	
	262-882-9000 <i>Telephone</i>	mroll@professionalpowerproducts.com <i>E-mail Address</i>

2.0	PPPI Day Tanks <i>Product Name</i>	Stand Alone Genset Fuel Tank <i>Product Type</i>
	<i>50 to 1000 Gallon Tanks</i>	
	<i>Product model No (List all unique product identification numbers and/or serial numbers)</i>	
	<i>General Description: Rigid base mounted UL-142 stand alone external steel fuel tanks, with integral pumping system and fuel coolers.</i>	

3.0	The VMC Group <i>Applicant Company Name</i>	John P. Giuliano, PE <i>Contact Person</i>
	<i>113 Main St, Bloomingdale NJ, 07403</i>	
	<i>Mailing Address</i>	
	973-838-1780 <i>Telephone</i>	john.giuliano@thvmcgroup.com <i>E-mail Address</i>

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

	11/12/2010
<i>Signature of Applicant</i>	<i>Date</i>
President <i>Title</i>	The VMC Group <i>Company Name</i>



Registered Design Professional Preparing the Report

4.0 The VMC Group
Company Name

Samantha Kersting C-57001
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 S-4642
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 UC Berkeley Don Clyde
Company Name Contact Name

1301 South 46th St, Richmond CA, 94804
Mailing Address

513-528-7900 dclcyde@berkeley.edu
Telephone E-mail:

2/2



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) = 0.5 g

S_{DS} (Spectral response acceleration at short period) = 2.0 g

a_p (In-structure equipment or component amplification factor) = 1.0

R_p (Equipment or component response modification factor) = 2.5

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 Chris Tokas, SHFR</p> <p style="text-align: center; margin: 0;">Name & Title</p>	<p style="margin: 0;">11/15/2010</p>	<p style="margin: 0;">December 31, 2016</p> <p style="margin: 0; font-size: small;">Approval Expiration Date</p>
<p style="margin: 0;">Condition of Approval (if any):</p>	<p style="margin: 0;"> S_{DS} (g) = 2.0 z/h = 0.0 </p> <p style="margin: 0; font-size: small;">Special Seismic Certification Valid Up to</p>	

2/

Professional Power Products : Rigid Base Mounted UL-142 Stand Alone Steel Fuel Tanks										
PPPI Tanks Model Number	Gallons	Empty Wt. (lbs)	Full Operating Weight (lbs)	Length (in)	Width (in)	Height (in)	Wall thickness	Maximum Intermediate Vertical Stiffener Spacing ^{1,2}	h/w ratio	UUT
FSDT-50	50	798	2150	32	32	38	7 gage	spacing (s)=13" h/s=2.86	1.1875	2
FSDT-1bd	50<TBD<1000	798<TBD<3355	2150<TBD<15225	32<TBD<85	32<TBD<48	38<TBD<84	7 gage	1.1875<h/w<1.75		
FSDT-1bd	50<TBD<1000	798<TBD<3355	2150<TBD<15225	32<TBD<85	32<TBD<48	38<TBD<84	7 gage	1.1875<h/w<1.75		
FSDT-1bd	50<TBD<1000	798<TBD<3355	2150<TBD<15225	32<TBD<85	32<TBD<48	38<TBD<84	7 gage	1.1875<h/w<1.75		
FSDT-1bd	50<TBD<1000	798<TBD<3355	2150<TBD<15225	32<TBD<85	32<TBD<48	38<TBD<84	7 gage	1.1875<h/w<1.75		
FSDT-1000	1000	3355	15225	85	48	84	7 gage	spacing (s) =15.66" h/s=5.25	1.75	1

1) Final design dimensions of interpolated units have not been determined

2) Vertical stiffeners shall be such that the unstiffened tank panel width is to be not greater than 15 1/2" and the height shall not be greater than 84" for a max h/s < 5.25

PPPI Pump Controller	Weight	Length (in)	Width (in)	Height (in)	Sbs	z/h	UUT
A16046	400	54	54	46	2.0	0	3

This unit is the only one offered in this tank series

Pump Controller Mounted Equipment	Manufacturer	Model Number	Description	UUT
Fuel Oil Cooler <td>Thermal Transfer Products</td> <td>81190</td> <td>Fuel Oil cooler</td> <td>3</td>	Thermal Transfer Products	81190	Fuel Oil cooler	3
Transfer Pump (x2)	Oberdorfer	4N992R	Rotary Bronze 4gpm ductile closed coupled rotary gear pump 10 gpm	3
Return Pump	Oberdorfer	C9941B		3
High Fuel Alarm Panel	PPPI	V77		3
Control Panel	PPPI	V77		3
Motor with Transfer Pump	Trane	MOT06149	and blower split phase ODP	3
Motor with Return Pump	Century Farm Rated	K103C	1.5 HP	3
Pump control Unit Assembly Stand	PPPI	A16046	Tube steel to support equipment that is remotely mounted.	3

Lowest Natural Frequencies

PPPI Tanks Model Number	Full/Empty	X-X	Y-Y	Z-Z	UUT
FSDT-50	Empty	32	14.6	9.5	2
FSDT-50	Full	11	6.5	6.5	2
FSDT-1000	Empty	N/A	N/A	31	2
FSDT-1000	Full	13	13	9.2	1

PPPI Pump Controller	X-X	Y-Y	Z-Z	UUT
A16046	9.7	16.4	9.5	3

AK

