

### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0187
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Phoenix Products	
Manufacturer's Technical Representative: Alex Munoz	
Mailing Address: 1544 East *th Street, Jacksonville, FL 32206	
Telephone: (904) 354-1858 Email: alex.munoz@	phoenixprods.com
Product Information	
Product Name: Phoenix Products Stand Alone Fuel Day Tanks and Pum	p Racks
Product Model Number(s): DD-50, DD-75, DD-250, DD-1000, SPR, DP	R, TPR
Product Category: Emergency and Standby Power Systems 7	i în
Product Sub-Category: Fuel Tanks	
General Description: Fuel Tanks without Control Boxes and with Inte	gral Stand-Alone Pump System
Mounting Description: Fuel Tanks and Racks were Base Mounted Rig	id. Controlle <mark>rs we</mark> re surface mounted to racks.
Tested Seismic Enhancements: None DATE: 04/14/202	
Applicant Information	
Applicant Company Name: The VMC Group	001
Contact Person: John Giuliano	
Mailing Address: 113 Main Street, Bloomingdale, NJ 07403	
Telephone: (973) 838-1780 Email: john.giuliano	@thevmcgroup.com
Title: President	



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### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: THE VMC GROUP
Name: Kenneth Tarlow California License Number: S2851
Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814
Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CO
Testing Laboratory
Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)
Contact Person: Kelly Laplace
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431
Telephone: (775) 358-5085 Event Email: Kelly@shaketest.com
Company Name: Pacific Earthquake Engineering Research Center (PEER)
Contact Person: Amarnath Kasalanati DATE: 04/14/2025
Mailing Address: 1301 South 46th St., Bldg. 420, Richmond CA 94720-1729
Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu
Company Name: STORK GARWOOD LABORATORIES
Contact Person: Jerry Cederstrom
Mailing Address: 7829 Industry Ave, Rico Rivera CA 90660
Telephone: (562) 699-4159 Email: Jerry.Cederstrom@us.stork.com



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### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

### Seismic Parameters

Desig	n Basis of Equipment or Components	(Fp/Wp) = 1.13						
	SDS (Design spectral response accele	eration at short period, g) = $2.5$						
	ap (Amplification factor) =	1.0						
	Rp (Response modification factor) =	2.5						
	$\Omega_0$ (System overstrength factor) =	2.0						
	Ip (Importance factor) =	1.5						
	z/h (Height ratio factor) = 0							
	Natural frequencies (Hz) = See Attachment							
	Overall dimensions and weight =	See Attachment						
HCA	Approval (For Office Use Only) -	Approval Expires on 04/14/2031	~					
Date:	4/14/2025	OSP-0187	5					
Name	e: Mohammad Karim		Title:	Supervisor, Health Facilities				
Speci	al Seismic Certification Valid <mark>Up to</mark> : Si	DS(g) = 2.5	 z/h =	0				
Condi	tion of Approval (if applicable):	DATE: 04/14/2025						
		PRIVIA BUILDING COD	502					



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	Capacity	Max	Dimensions	[ in ]	Operating		
Model	[ Gallons ] Length Width Height	Height	Weight [ lbs ]	UUT			
DD50	50	31	29	25	741	UUT 1	
DD75	75	31	29	38	1,026	Interpolated	
DD100	100	33	29	45	1,325	Interpolated	
DD150	150	46	29	45	1,867	Interpolated	
DD200	200	56	29	45	2,330	Interpolated	
DD250	250	67	29	45	2,835	UUT 2	
DD1000	1024	120	62	48	10,955	UUT 4	

### Table 1 - Certified Fuel DayTank

## Table 2 - Certified Pump Racks

Model	Notes	Max Dimensions [ in ]			Weight	UUT	
WOUEI	NOLES	Length	Width	Height	[ lbs ]	001	
SPR	Single Pump Rack	23.25	13.56	38.30	105	Extrapolated	
DPR	Double Pump Rack	23.25	13.56	38.30	111	Extrapolated	
TPR <sup>1</sup>	Triple Pump Rack	24.00	30.60	38.30	180	UUT-5, UUT-6	
TPR <sup>1</sup>	Triple Pump Rack	24.00	30.60	38.30	180	UUT-5, UL	

Notes: <sup>1</sup>Pump Rack was tested as a subcomponent of UUT-1, UUT-2.

a caboonin		
4	OSP-0187	1°C
	BY: Mohammad Karim	
C	DATE: 04/14/2025	$\mathbb{V}_{\mathcal{N}}$
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	BUILDING CO.	
	BUILDING	

Part or Model Number	Notes	Manufacturer	Weight [ lbs ]	UUT
2 GPM Pump	1/3 H.P - 120/240V	Baldor Motor & Parker Pump	35	UUT-1, UUT-2
4 GPM Pump	1/2 H.P - 120/240V	Baldor Motor & Parker Pump	37	UUT-1, UUT-2
7 GPM Pump	1/2 H.P - 120/240V	Baldor Motor & Parker Pump	37	UUT-1, UUT-2
8 GPM Pump	1 H.P - 120/240V	Baldor Motor & Parker Pump	45	UUT-1, UUT-2
10 GPM Pump	1 H.P - 120/240V	Baldor Motor & Parker Pump	46	UUT-1, UUT-2
16 GPM Pump	1 H.P - 120/240V	Baldor Motor & Parker Pump	50	UUT-1, UUT-2

### Table 3 - Certified Subcomponents: Pumps

### Table 4 - Certified Subcomponents: Probes

Part or Model Number	Notes	Manufacturer	Weight [ lbs ]	UUT
DDCHP	Critical High Fuel Level Probe	Madison	3.25	UUT-1, UUT-2, UUT4
DDHP	High Fuel Level Probe	Madison	6	UUT-1, UUT-2, UUT4
DDCLP	Critical Low Fuel Level Probe	Madison	6	UUT-1, UUT-2, UUT4
DDLSP	Leak Sensor Probe	Madison	3.25	UUT-1, UUT-2, UUT4
DDSP10P	Supply Pump #1 on Probe	Madison	6	UUT-1, UUT-2, UUT4
DDSP2OP	Supply Pump #2 on Probe	Madison	6	UUT-1, UUT-2, UUT4
DDRPOP	Return Pump on Probe	Madison	6	UUT-1, UUT-2, UUT4
DDPOFP	Pump Off Probe	Madison	6	UUT-1, UUT-2, UUT4

# Table 5 - Certified Subcomponents: Valves

Part or Model Number	Notes	Manufacturer	Weight [ lbs ]	UUT
DDBV	Ball Valve	Morrison Bros.	1.17	UUT-1, UUT-2, UUT4
DDCV	Check Valve	Apollo Valves	2.18	UUT-1, UUT-2, UUT4
DDSV	Solenoid Valve	ASCO	6.80	UUT-1, UUT-2, UUT4

# Table 6 - Certified Subcomponents: Vents

Part or Model Number	Notes	Manufacturer	Weight [ lbs ]	UUT	
DDUV	Updraft Vent	Morrison Bros.	2	UUT-1, UUT-2, UUT4	
DDPRV	Pressure Relief Vent	Morrison Bros.	36	UUT-1, UUT-2, UUT4	

### Table 7 - Certified Subcomponents: Miscellaneous

Part or Model Number	Notes	Manufacturer	Weight [ lbs ]	UUT
DDWS	WYE Stainer	Titan Flow Control	4	UUT-1, UUT-2, UUT4
DDSDA	Siphon Drain Assy	Phoenix Products	5	UUT-1, UUT-2, UUT4
DDM1HP	Manual Hand Pump	Fill-Rite	10	UUT-1, UUT-2, UUT4
24Q001A	Control Box	ECC	60	UUT-5, UUT-6



### UNIT UNDER TEST (UUT) Summary Sheet

UUT-1

					Test Report	:: R003710; I	UUT-1 (Con <sup>-</sup>	figuration 3
Model Line		Model Number				N	lanufacture	er
Fuel Day Tanl	ks		DD-50			Ph	oenix Produ	cts
		Product C	onstructior	n Summary				
Velded ASTM A36 stee	el plates and structural s							
		Options / Su	ıbcompone	ent Summar	у			
50 gallon day tank with	pump rack configuration							
		2	CODE					
		FOR	CODE	CON				
		U	UT Properti	es				
Weight		Dimensi	ons [ in ]		2	Lowes	st Nat. Freq	. [ Hz ]
[ lbs ]	Length	Wi	dth	He	ight	F-B	S-S	v
742	31.0	<b>29.0</b> P-018		7 2	7 25.0		33.0	23.0
	UUT H	lighest Pase	sed Seismi	c Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	RVS <sub>ps/ob</sub>	an <sup>z/h</sup> ad	Karm	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-E <mark>S AC1</mark> 56	2.50	0.0	1.5	2.50	1.00	1.68	0.68
		Test	Mounting D	etails				
JUT-1 was rigidly moun	ted to the shake table u		$\Lambda \Lambda \Lambda \Lambda I$	() () () [ ]	N N			
					1			



# **UNIT UNDER TEST (UUT)**

UUT-2

# **Summary Sheet**

Test Report: R003710; UUT-2 (Configuration 3)

Model Line		Model Number				Manufacturer		
Fuel Day Tanl	ks	DD-250				Phoenix Products		
		Product C	onstruction	Summary				
Welded ASTM A36 stee	el plates and structural st							
		Options / Su	ıbcompone	nt Summar	ry			
250 gallon day tank with	n pump rack configuratio	n.						
		FOR	CODE	COA				
		U	UT Propertie	es	0,			
Weight		Dimensions [ in ]			5	Lowest Nat. Freq. [ Hz ]		
[ lbs ]	Length	Width		Height		F-B	S-S	V
2,835	67. <mark>0</mark>	29	9P-018	4	5.0	12.7	N/A	33.2
		lighest Pass	sed Seismic	Run Infor	mation			
Building Code	Test <mark>Criter</mark> ia	BVS <sub>DS/loh</sub>	an <sup>z/h</sup> ad	Karim	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2022	ICC-E <mark>S AC1</mark> 56	2.50	0.0	1.5	2.50	1.00	1.68	0.68
All units	were filled with contents	and maintair	ned structur	al integrity a	and functiona	lity after AC	-156 test.	



### UNIT UNDER TEST (UUT) Summary Sheet

UUT-4

				Test Rep	ort: PEI-PEE	R-PPP-12
Model Line	}	Model Number	Ν	Manufacturer		
Fuel Day Tar	iks	DD-1000	Phoenix Products			
		Product Construction Sum	nmary			
Ided ASTM A36 ste	el plates and structural s	teel C and L sections.	-			
		Options / Subcomponent Su	immary			
00 gallon day tank v	vith pump rack configura	tion.				
		2 CODE				
		FORCODEC	71			
		UUT Properties	VD,			
Weight		Dimensions [ in ]		Lowest Nat. Freq. [ Hz		. [ Hz ]
[lbs]	Length	Width	Height	F-B	S-S	V
10,955	120.4	C480P-0187	62.0	17.6	11.1	11.1
		Highest Passed Seismic Rur	Information			
Building Code	Test Criteria		IP A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-</sub>
CBC 2022	ICC-ES AC156	2.50 0.0	1.5 2.50	1.00	1.68	0.68
000 2022			Ė.	-	-	-
		Test Mounting Details				



# UNIT UNDER TEST (UUT)

### **Summary Sheet**

UUT-5

Test Report: DCL 22765-2301 Model Line **Model Number** Manufacturer Day Tank Controller 24Q001A ECC **Product Construction Summary** 3/16" Polycarbonate control panel enclosure **Options / Subcomponent Summary** Controller: ECC; Triple Pump Rack: Phoenix Products **UUT Properties** Dimensions [ in ] Lowest Nat. Freq. [ Hz ] Weight [ lbs ] Length Width Height F-B S-S V 180 30.6 23.0 22.5 24.0 38.3 23.5 [Total Assembly] 60 20.0 17.0 27.5 N/A N/A N/A [Control Panel Only] **UUT Highest Passed Seismic Run Information Building Code Test Criteria** SDS z/h A<sub>FLX-H</sub> A<sub>RIG-H</sub> A<sub>RIG-V</sub> I<sub>P</sub> A<sub>FLX-V</sub> CBC 2022 ICC-ES AC156 2.50 6.25 0.0 1.5 6.25 4.17 1.67 **Test Mounting Details** UUT-5 was vertical surface mounted with 4-1/2" Grade 5 threaded rod, nuts, flat washer, and McMaster-Carr 440K699 isolators. Manufacturer provided Triple Pump Rack was rigid mounted at the base using 4-3/4" Grade 5 bolts and flat washers.



# UNIT UNDER TEST (UUT)

### **Summary Sheet**

UUT-6

Test Report: DCL22765-2301 Model Line **Model Number** Manufacturer Day Tank Controller 24Q001A ECC **Product Construction Summary** 3/16" Polycarbonate control panel enclosure **Options / Subcomponent Summary** Controller: ECC; Triple Pump Rack: Phoenix Products **UUT Properties** Dimensions [ in ] Lowest Nat. Freq. [ Hz ] Weight [ lbs ] Length Width Height F-B S-S V 180 30.6 23.0 26.0 24.0 38.3 23.5 [Total Assembly] 60 20.0 17.0 27.5 N/A N/A N/A [Control Panel Only] **UUT Highest Passed Seismic Run Information Building Code Test Criteria** SDS z/h A<sub>FLX-H</sub> A<sub>RIG-H</sub> A<sub>FLX-V</sub> A<sub>RIG-V</sub> I<sub>P</sub> CBC 2022 ICC-ES AC156 2.50 6.25 0.0 1.5 6.25 4.17 1.67 **Test Mounting Details** UUT-5 was vertical surface mounted with 4-1/2" Grade 5 threaded rod, nuts, flat washer, and McMaster-Carr 440K699 isolators. Manufacturer provided Triple Pump Rack was rigid mounted at the base using 4-3/4" Grade 5 bolts and flat washers.