

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

	OFFICE USE ONLY			
APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0784			
HCAI Special Seismic Certification Preapproval (OSP)				
Type: X New Renewal				
Manufacturer Information				
Manufacturer: PREFERRED UTILITIES MFG CORPORATION				
Manufacturer's Technical Representative:				
Mailing Address: 31-35 South St., Danbury, CT 06810				
Telephone: (203) 743-6741 Email: jjarosz@preferred-n	nfg.com			
FORCODECO				
Product Information				
Product Name: Emergency and Standby Power Systems	1 P			
Product Type: Fuel Tanks	2			
Product Model Number: DT Double Wall Day Tanks	Ĩ			
General Description: Welded carbon steel double wall tanks meeting UL 14	2.			
Mounting Description: Rigid, Flo <mark>or Mo</mark> unted				
Tested Seismic Enhancements: Seismic enhancements made to the test un anomalies during the tests shall be incorpor	its and/or modifications required to address rated into the production units.			
Applicant Information	4			
Applicant Company Name: Manwill Engineering LLC				
Contact Person: Derek Manwill				
Mailing Address: PO Box 1194, Bend, OR 97709				
Telephone: (541) 241-2102 Email: derek@manwillse.c	om			

Title: President



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OSP-0784

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alifornia Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
company Name: MANWILL ENGINEERING LLC
lame: Derek Manwill California License Number: S6266
lailing Address: PO Box 1194, Bend, OR 97709
elephone: (541) 241-2102 Email: derek@manwillse.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
EOR CODE CO.
esting Laboratory
Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
elephone: (972) 247-9657 Email: Jeremy@etIdallas.com
DATE: 10/19/2023
DATE: 10/19/2023
BUILDING



OSP-0784



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Seismic Parameters

Design Basis of Equipment or Components	(Fp/Wp) = 1.44 (SDS=2.00, z/h=1)), 1.13 (SDS	S=2.50, z/h=0)				
SDS (Design spectral response accele	eration at short period, g) = $2.00 (z/h)$	=1), 2.50 (z	/h=0)				
ap (Amplification factor) =	1.0						
Rp (Response modification factor) =	2.5						
Ω_0 (System overstrength factor) =	2.0						
lp (Importance factor) =	1.5						
z/h (Height ratio factor) =	1 and 0						
Natural frequencies (Hz) =	See Attachment						
Overall dimensions and weight =	See Attachment						
HCAI Approval (For Office Use Only)	Approval Expires on 10/19/2029	12					
Date: 10/19/2023	U3P-0704	m					
Name: Mohammad Karim	BV. Mohammad Karim	Title:	Supervisor, Health Facilities				
Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above							
Condition of Approval (if applicable):	DATE: 10/19/2023						
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ATTACHMENT 1: CERTIFIED COMPONENTS

SPECIAL SEISMIC CERTIFICATION

PREFERRED UTILITIES MFG CORPORATION DT Double Wall Day Tanks

			TABLE 1			
Model Number	Dimensions (in)			Max. Wt.	Description / Notes	Basis
	Depth	Width	Height	(lb)		Duolo
DT Double Wall Day Tanks						
DT-060	41.5	30.5	25.3	1,000	60 gal	EXTRAP
DT-100	41.5	30.5	38.4	1,400	100 gal	EXTRAP
DT-150	41.5	30.5	54.4	1,900	150 gal	UUT 2
DT-200	45.5	34.5	54.3	2,500	200 gal	INTERP
DT-300	62.5	34.5	54.3	3,600	300 gal	INTERP
DT-400	80.5	34.5	54.3	4,600	400 gal	INTERP
DT-500	96.5	34.5	54.3	5,600	500 gal	UUT 1
Mounting: Rigid floor mounted.	EDFO			Seismic	$S_{DS} = 2.00g$ for z/h = 1	I _P = 1.5
mounting. Rigid hoor mounted.				Levels:	$S_{DS} = 2.50g$ for z/h = 0	ip = 1.5

Product Construction: Welded carbon steel double wall tanks meeting UL 142.

Options/Subcomponents: Tanks may contain any combination of subcomponents listed in Table 2.

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	BY: Mohammad Karim	
C	DATE: 10/19/2023	
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ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

PREFERRED UTILITIES MFG CORPORATION DT Double Wall Day Tanks

TABLE 2. SUBCOMPONENTS

Model Number	Dimensions (in)			Max. Wt.	Description / Notos	Basis
Model Number	Depth	Width	Height	(lb)	Description / Notes	Dasis
Subcomponent: Pump & Motor Assembly - Manufacturer: Viking Pump						
11872	-	-	-	33	SG-0510, 1/3-hp, 4-gpm	UUT 2
11815	-	-	-	45	HJ475, 3/4-hp, 60-gpm	UUT 1
Subcomponent: Probe - Manufactur	er: Preferred l	Jtilities Mfg	Corp			
PLS-1-1-S	-	-	-	5	Preferred level switch	UUT 1, 2
PLS-4-1-S	-	-	-	5	Preferred level switch	UUT 1, 2
TG-CL48-SS-T	-	-	COD	7	Continuous level probe	UUT 1, 2
Mounting: Mounted within unit.		FOR	CODE	Seismic	$S_{DS} = 2.00g$ for $z/h = 1$	I _P = 1.5
		FO.		Levels:	$S_{DS} = 2.50g$ for z/h = 0	IP – 1.5

Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.







ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

					UUT 1	
Model num	ber: DT-500 on: FUEL TA		ES MFG CO	RPORATION	I	
Di	mensions (i	n)	Weight	Res. Fi	req. (Hz)	R122
Depth	Width	Height	(lb)	F-B S	S-S V	
96.5	34.5	54.3	5,600	7.2 7	7.7 8.8	
Code & crit	teria: 2022 C	BC, ICC-ES	AC156			
		nmental Testi	• •			
		ated 10-11-23				
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0	4.5.11.2	6.11 6	FOK	CODE	
shake table	e test. Unit m	1.5: Unit was aintained stru ement after sl	ctural integrit	y and remain		P C
Mounting: Constructio	0	d floor mounte ded carbon st		1 / / / / / / / / / / / / / / / /	Grade 8 bolts	1 The second sec
Subcompo						Probe (PLS-1-1-S, PLS-4-1-S, TG-CL48-SS-T).
Testing not						sure buildup), a small portion of the liquid was expelled during the
recting no				メハメハメハメハメシソン	****	al amount, so it had no effect on the test. Secondary containment
	sho	uld be con <mark>sid</mark> e	ered for high s	seismic regio	ns since fuel o	could be discharged during a seismic event.
				DATE:		2023
Manufactu	rer: PREFEF	RRED UTILITI	ES MFG CO	RPORATION	888888 7 388888	
	ber: DT-150					
	on: FUEL TA	NK				
Serial num		,	~p	MUM		Martin Las
	mensions (i	,	Weight		req. (Hz)	
Depth	Width	Height	(lb)		S-S V	
41.5	30.5	54.4	1,900	13.3 4	9.9 9.4	
		BC, ICC-ES				
		nmental Testi	• •			
Report: 22 S _{DS} (g)	20751R1.0 (d z/h	ated 10-11-23	B), tested on 7 A _{RIG-H} (g)		A _{RIG-V} (g)	
2.00	2/11					
2.00	0	3.20	2.40	1.68	0.68	
	U U	1.5: Unit was	full of operat	ina content d	urina the	
•		aintained stru		•	•	
		ement after sl	0			T. The state

Mounting:Rigid floor mounted to fixture with (4) 1/2-in Grade 8 bolts.Construction:Welded carbon steel double wall tanks meeting UL 142.Subcomponents:Viking Pump - Pump (11872), Preferred Utilities Mfg Corp - Probe (PLS-1-1-S, PLS-4-1-S, TG-CL48-SS-T).Testing notes:None.