

Title: Vice President Engineering

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION **FACILITIES DEVELOPMENT DIVISION**

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0254 **HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: **Tramont Manufacturing** Manufacturer's Technical Representative: Frank Langenecker Mailing Address: 326 E Keefe Ave, Milwaukee, WI 53212 Telephone: (414) 967-8800 Email: frank@tramont.com **Product Information** Product Name: Emergency and Standby Power Systems Product Type: Fuel Tanks Product Model Number: See Attachments General Description: Carbon steel UL-142 standalone fuel day tanks with integral and remote base pumping systems. Mounting Description: Rigid, Floor Mounted None Tested Seismic Enhancements: **Applicant Information** Applicant Company Name: Tramont Manufacturing Contact Person: Frank Langenecker Mailing Address: 326 E Keefe Ave, Milwaukee, WI 53212 Telephone: (414) 967-8800 Email: frank@tramont.com



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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

california Licensed Structural Engineer Responsible for the Engineering and Test Report(s)	
company Name: LARSON ENGINEERING	
lame: Kevin Schultz California License Number: S5608	
failing Address: 3524 Labore Road, White Bear Lake, MN 55110-5126	
elephone: (651) 481-9120 Email: kschulz@larsonengr.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: Environ Laboratories	
Contact Person: John Homan	
Mailing Address: 9725 Girard Ave South, Minneapolis MN 55431	
elephone: (952) 888-7795 Email: john.homan@element.com	
DATE: 11/09/2023	







DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters	
Design Basis of Equipment or Components	(Fp/Wp) = 1.44
SDS (Design spectral response accele	eration at short period, g) = 2.0
a _p (Amplification factor) =	1.0
Rp (Response modification factor) =	2.5
Ω_0 (System overstrength factor) =	2.0
Ip (Importance factor) =	1.5
z/h (Height ratio factor) =	1
Natural frequencies (Hz) =	See Attachment
Overall dimensions and weight =	See Attachment

HCAI A	Approval (For Office Use Only) - Approval Expires on	11/09/2029
Date:	11/9/2023 OSP-025	54
Name:	Mohammad Karim	Title: Supervisor, Health Facilities
Special	Seismic Certification Valid Up to: SDS (g) = 2.00	z/h = 1
Conditio	on of Approval (if applicable): DATE: 11/09/	2023





Table 1. Certified Components

Tramont Corporation: Rigid Base Mounted UL-142 Steel Double Walled Fuel Tanks

			Full Operating	Length	Width	Height		Max Stiffener Spacing	Max Tie Rod Spacing	
Model #	Gallons	Empty Weight [lbs]	Weight [lbs]	[in]	[in]	[in]	SS	[in]	[in]	UUT
UOTRS-10, UOTRX-10	10	157	228	16	36	12	12 ga	18"	18"	1
UOTRS or UOTRX-10 to	10 to	157 to	228 to	16 to	36 to	12 to	12 ga	18"	18"	Inter
UOTRS or UOTRX-350	350	1091	3576	51	48	50	12 ga	10	10	IIICI
UOTRS-350, UOTRX-350	350	1091	3576	51	48	50	12 ga	18"	18"	2
Remote Enclosure Duplex	N/A	80 to 219	N/A	24	18	4	10 ga	N/A	N/A	3

Note: UOTRS includes tank with control system, UOTRX is tank only with various pipe fittings.

Table 2. Certified Subcomp	ponents				Tank Mounted	Remote Mounted
Day Tank Mounted Options					OSHPD	Apprvd
Equipment Description	Mfr	Mfr#	Desc	UUT	_	Remote
Pump	Oberdorfer	N61K10G01	2 gpm, 3/8" NPT	2	Х	Х
Pump	Oberdorfer	N991	2gpm, 1/4" NPT	1,3	Х	Х
Pump	Oberdorfer	N992	4 gpm		Х	Х
Pump	Oberdorfer	N993	7 gpm		Х	Х
Pump	Oberdorfer	N994	10 gpm		Х	Х
Pump	Oberdorfer	N970	19 gpm		Х	Х
Pump	Oberdorfer	N990	23 gpm	2,3	Х	Х
Pump	Oberdorfer	N1100	30 gpm	2	Х	Х
Motor	Marathon Elec	5KH32FN5586X	1/3 Hp, 1725 rpm, 115 VAC, 1 ph	2	Х	Х
Motor	Leeson	A4C17DB2H	1/3 Hp, 1725 rpm, 115/208-230 VAC, 1 ph	1,3	Х	Х
Motor	Leeson	C4C17DK18H	1/2 Hp, 1725 rpm 115/208-230 VAC, 1 ph	,-	Х	Х
Motor	Leeson	C4C17DK19H	3/4 Hp, 1725 rpm 115/208-230 VAC, 1 ph		Х	Х
Motor	Leeson	C6C17DK11F	1 Hp, 1725 rpm, 115/208-230 VAC, 1 ph		Х	Х
Motor	Leeson	C6K17DK16E	1.5 Hp, 1725 rpm, 115/208-230 VAC, 1 ph	2,3	Х	Х
Motor	Baldor	36-3301	1.5 Hp, 1200 rpm, 208 VAC, 1 ph	2	Х	
Motor	Eaton	ECX09	Motor Starter	1,2,3	X	Х
Motor	Tramont	2116-22887	Motor Starter Mount	3		Х
Control System	MEC	System 2000 Plus	Controller, Single	1	Х	Х
Control System	MEC	System 2000 Plus	Controller, Duplex	2,3	Х	Х
Control System	Tramont	2300004	Pump Running / Critical High Plug-in Relay	1,2	Х	Х
Control System	Madison Switch	92400	Float Switch	1.2	Х	
Control System	Rochester	9340-8140	Level Sensor	1,2	Х	
Control System	Krueger Sentry	H-1.5	Visual Level Gauge	1,2	Х	
Control System	Tramont	#2425	Steel Weatherproof Tank Cover	1,2,3	X	Х
Vent	OEM	4023	1 1/4" Mushroom Vent	1	Х	
Vent	OEM	4025	2" Mushroom Vent	2	X	
Vent	GTC	Series 100-2	2" NPT Emergency Vent	1	Х	
Vent	GTC	Series 100-3	3" NPT Emergency Vent		X	
Vent	GTC	Series 100-4	4" NPT Emergency Vent	2	Х	
Valve, Solenoid	GC Valve	S201GF02V5CG4E	3/8" NPT, 120 VAC, N. C. Solenoid Valve		X	Х
Valve, Solenoid	GC Valve	S201GF02V5DG4E	1/2" NPT, 120 VAC, N. C. Solenoid Valve		Х	Х
Valve, Solenoid	GC Valve	S201GF02V5EG5E	3/4" NPT, 120 VAC, N. C. Solenoid Valve		X	Х
Valve, Solenoid	GC Valve	S201GF02V5FG9E	1" NPT, 120 VAC, N. C. Solenoid Valve		X	X
Valve, Solenoid	GC Valve	S201GF02L7DG4	1/2" NPT, 120 VAC, N. O. Solenoid Valve S.S.	1,3	Х	Х
Valve, Solenoid	GC Valve	S202GF02L7DG4	1/2" NPT, 120 VAC, N. O. Solenoid Valve S.S.	_,_	X	<u> </u>
Valve, Solenoid	GC Valve	S201GF02V5DG4ME	1/2" NPT, 120 VAC, N. C. Solenoid Valve w/ MO		X	Х
Valve, Solenoid	GC Valve	S201GF02V5EG5ME	3/4" NPT, 120 VAC, N. C. Solenoid Valve w/ MO		X	X
Valve, Solenoid	GC Valve	S201GF02V5FG9ME	1" NPT, 120 VAC, N. C. Solenoid Valve w/ MO	2,3	X	X

Larson Engineering, Inc.

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UUT - 1

Unit Under Test (UUT) Summary Sheet



Manufacturer:	Tramont Corporation
Model Line:	10 Gallon Day Tank
Model Number:	UOTRS-10, UOTRX-10

Product Construction Summary:

Tramont 10 Gallon Day Tank, 12 gauge, formed and welded cold rolled carbon steel double walled tank with painted finish.

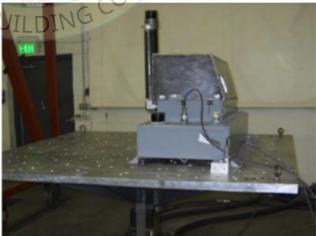
Options/ Subcomponent Summary:

See Table 2 for certified subcomponents. Tested empty and full.

		//		UUT Properti	es	F	
Weight	Dimensions (in) Lowest Natural Frequen				ncy (Hz)		
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical	
228	16	36	12	>33	>33	>33	
		UUT	Highest Pa	assed Seismic	Test Informa	ation	
Buildin	g Code:	CBC 2022	Managaran (Managaran)	Test Cı	riteria:	ICC-ES AC15	66
S _{DS}	z/h	I _p	A _{FLX-H}	ARIG-H/09	/2 A FLX=V	A _{RIG-V}	
2.00g	1	1.5	3.20g	2.40g	1.34g	0.54g	

Test Mounting Details:





Component maintained structural integrity and functionality after shake table tests. Rigid base mounted to the test table fixture using (4) 3/8" diameter SAE Grade 8 bolts.

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UUT - 2

Unit Under Test (UUT) Summary Sheet



Manufacturer:	Tramont Corporation
Model Line:	350 Gallon Day Tank
Model Number:	UOTRS-350, UOTRX-350

Product Construction Summary:

Tramont 350 Gallon Day Tank, 12 gauge, formed and welded cold rolled carbon steel double walled tank with painted finish.

Options/ Subcomonent Summary:

See Table 2 for certified subcomponents. Tested empty and full.

			4/	UUT Properti	es	Z		
Weight	Dimensions (in)			Dimensions (in) Lowest Natural Frequen				cy (Hz)
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical		
3576	51	48	50	19.24	33.19	23.99		
		UUT	Highest Pa	assed Seismic	Test Informa	ation		
Buildin	g Code:	CBC 2022		Test Cı	riteria:	ICC-ES AC15	6	
S _{DS}	z/h	I _p	A _{FLX-H}	ARIG-H/09	/2 A FLX=V	A _{RIG-V}		
2.00g	1	1.5	3.20g	2.40g	1.34g	0.54g		

Test Mounting Details:





Component maintained structural entegrity and functionality after shake table tests. Rigid base mounted to the test table fixture using (6) 3/8" diameter SAE Grade 8 bolts.

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UUT - 3

Unit Under Test (UUT) Summary Sheet



Manufacturer:	Tramont Corporation
Model Line:	Remote Base Enclosure
Model Number:	N/A

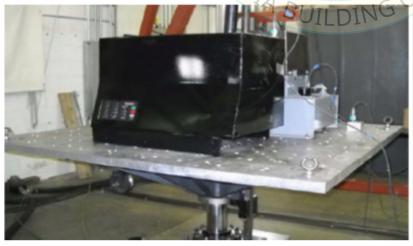
Product Construction Summary:

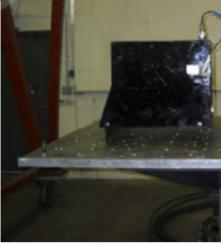
Tramont Remote Base Enclosure, 10 gauge, formed and welded cold rolled carbon steel enclosure with painted finish.

Options/ Subcomonent Summary:

				UUT Propertie	es	17	
Weight	D	imensions (i	n)	OCD 00	Lowest Na	tur <mark>al Freq</mark> uer	ncy (Hz)
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical	
219	24	18	4	19.24	30.41	>33	
		UUT	Highest Pa	assed Seismic	Test Informa	ation	
Buildin	g Code:	CBC 2022	M ((Traditional St.	Test Cr	iteria:	ICC-ES AC15	6
S _{DS}	z/h	I _p	A _{FLX-H}	ARIG-H/09	/2 AFLX-V	A _{RIG-V}	
2.00g	1	1.5	3.20g	2.40g	1.34g	0.54g	

Test Mounting Details:





Component maintained structural entegrity and functionality after shake table tests. Rigid base mounted to the test table fixture using (4) 3/8" diameter SAE Grade 8 bolts.