OFFICE USE ONLY APPLICATION FOR OSHPD SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #:** OSP - 0254 - 10 **OSHPD Special Seismic Certification Preapproval (OSP) Manufacturer Information** Tramont Manufacturing Manufacturer: Manufacturer's Technical Representative: Frank Langenecker Mailing Address: 3701 North Humboldt BLV, Milwaukee, WI 53212 Telephone: (414) 967-8800 Email: frank@tramont.com **Product Information** Product Name: Tramont UL-142 Fuel Day Tanks Product Type: Stand Alone UL-142 Fuel Tank Product Model Number: See Attachments (List all unique product identification numbers and/or part numbers) General Description: Carbon steel UL-142 standalone fuel day tanks with integral and remote base pumping systems. Mounting Description: Rigid Base Mounted: **Applicant Information** Applicant Company Name: Tramont Manufacturing Contact Person: Frank Langenecker Mailing Address: 3701 North Humboldt BLV, Milwaukee, WI 53212 Telephone: (414) 967-8800 Email: frank@tramont.com I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016. Signature of Applicant: Frank K Langenecker Date: 12/21/16 Title: Vice President Engineering Company Name: Tramont

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs'





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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: Larson Engineering, Inc.
Name: Kevin Schultz California License Number: S-5608
Mailing Address: 3524 Labore Road, White Bear Lake, MN 55110
Telephone: (651) 481-9120 Email: <u>kschultz@larsonengr.com</u>
Supports and Attachments Preapproval
 Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) Supports and attachments are not preapproved
Certification Method
 ✓ Testing in accordance with: ✓ ICC-ES AC156 ✓ Other (Please Specify):
Testing Laboratory
Company Name: Environ Laboratories
Contact Name: John Homan
Mailing Address: 9725 Girard Avenue South, Minneapolis, MN 55431
Telephone: (952) 888-7795 Email: john.homan@element.com



04/12/2017



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes □ No
Design Basis of Equipment or Components (F _p /W _p) = 1.44
S _{DS} (Design spectral response acceleration at short period, g) = 2.00
a _p (In-structure equipment or component amplification factor) = 1.0
R _p (Equipment or component response modification factor) = 2.5
Ω_0 (System overstrength factor) = 2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = 1
Equipment or Component Natural Frequencies (Hz) = See attachment
Overall dimensions and weight (or range thereof) = See attachment
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω_0 (System overstrength factor) =
C _d (Deflection amplification factor) =
I_p (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No
List of Attachments Supporting Special Seismic Certification
Other(s) (Please Specify):
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
1/1/00
Signature: Date: April 12, 2017
Print Name: Timothy J. Piland Title: SSE
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.00$ $z/h = 1$
Condition of Approval (if applicable):

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





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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	inter
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	oonents				Tank Mounted	Remote Mounted
Day Tank Mounted Options					OSHPD	Apprvd
Equipment Description	Mfr	Mfr#	Desc	UUT	1	Remote
Pump	Oberdorfer	N61K10G01	2 gpm, 3/8" NPT	2	X	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	Х	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	Х	Х
Vent	OEM	4023	1 1/4" Mushroom Vent	1	Х	
Vent	OEM	4025	2" Mushroom Vent	2	Х	
Vent	GTC	Series 100-2	2" NPT Emergency Vent	1	Х	
Vent	GTC	Series 100-3	3" NPT Emergency Vent		Х	
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		Х	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		Х	Х
Valve, Solenoid	GC Valve	S201GF02V5FG9E	1" NPT, 120 VAC, N. C. Solenoid Valve		Х	Х
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.		Х	
Valve, Solenoid	GC Valve	S201GF02V5DG4ME	1/2" NPT, 120 VAC, N. C. Solenoid Valve w/ MO		Х	Х
Valve, Solenoid	GC Valve	S201GF02V5EG5ME	3/4" NPT, 120 VAC, N. C. Solenoid Valve w/ MO		Х	Х
Valve, Solenoid	GC Valve	S201GF02V5FG9ME	1" NPT, 120 VAC, N. C. Solenoid Valve w/ MO	2,3	Х	Х



REI No: R11-10-14H

105 School Creek Trail Luxemburg, WI 54217 Phone: (920)845-1042 Fax: (920)845-1048 www.rice-inc.com

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 Properties											
Weight	Weight Dimensions (in) Lowest Natural Frequency (Hz)										
(lb)	Depth	Width	He	ight	Front	Front-Back Side-			-Side Vertical		
228	16	36	36 12			>33 Hz		>33 Hz		Hz	
	UUT Highest Passed Seismic Test Information										
Building Code Test Criteria		S _{DS}	z/h	l _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A_{RIG-V}			
CBC 2010 ICC-ES AC 156		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 CorporationModel 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/Subcomponent Summary:

See Table 2 for certified subcomponents.

Tested Empty and Full.

UUT Properties											
Weight	ght Dimensions (in) Lowest Natural Frequency (Hz)										
(lb)	Depth Width Height					Front-Back Side-Side			Vertical		
3576	51	48 50			19.24		33.19		23.99		
	UUT Highest Passed Seismic Test Information										
Building Code Test Criteria		ia	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A_{RIG-V}		
CBC 2010 ICC-ES AC 156		56	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 (6) 3/8" diameter SAE Grade 8 Bolts.



REI No: R11-10-14H

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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/Subcomponent Summary:

See Table 2 for certified subcomponents.

UUT Properties											
Weight		Dimensions (in)		Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	ight	Front	Front-Back Side-Si			de Vertical			
219	24	18	18 4			19.74		30.41		Hz	
	UUT Highest Passed Seismic Test Information										
Bui	ilding Code	ng Code Test Criteria		S _{DS}	z/h	I _p	A _{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}	
(CBC 2010	ICC-ES AC 156		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.