OFFICE USE ONLY APPLICATION FOR OSHPD SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #:** OSP - 0456 - 10 **OSHPD Special Seismic Certification Preapproval (OSP)** New □ Renewal **Manufacturer Information** Manufacturer: Falcon Electric, Inc. Manufacturer's Technical Representative: David Benporat Mailing Address: 5116 Azusa Canyon Rd., Irwindale, CA 91706 Telephone: 626.962.7770 Email: David.benporat@falconups.com **Product Information** Product Name: Falcon UPS Uninterruptible Power Supply Product Type: Product Model Number: SG2K-1TG (List all unique product identification numbers and/or part numbers) 2K Tower UPS in a carbon steel enclosure. General Description: Mounting Description: Rigid base mounted. Applicant Information Applicant Company Name: TRU Compliance, LLC - A Tobolski Watkins Affiliate Contact Person: Matthew J. Tobolski, Ph.D., S.E. Mailing Address: 960 SW Disk Drive, Suite 104, Bend, OR 97702 Telephone: 844.878.0200 Email: mtobolski@trucompliance.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: Date: 02/04/2016 Title: President & CEO Company Name: TRU Compliance, LLC

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02/25/2016 OSP-0456-10

Camornia Licensed Structural Engineer Responsible for the Engineering and Test Report(s)									
Company Name: _TRU Compliance, LLC - A Tobolski Watkins Affiliate									
Name: Derek J. Manwill, S.E. California License Number: S6266									
Mailing Address: 960 SW Disk Dr., Suite 104, Bend, OR 97702									
Telephone: 844.878.0200 Email: dmanwill@trucompliance.com									
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									
 ☐ Other (Please Specify): 									
Testing Laboratory									
Company Name: NTS – Fullerton									
Contact Name: Don Bennet									
Mailing Address: 1536 E Valencia Dr., Fullerton, CA 92831									
Telephone: 714.879.6110 Email: don.bennett@nts.com									



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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 @ z/h = 1; 3.20 @z/h = 0											
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 @S _{DS} = 2.00g; 0 @S _{DS} = 3.20g											
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											
☐ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog											
Other(s) (Please Specify): Attachment											
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022											
Signature: Date: 2/25/16											
Signature: Date: 2/25/16 Print Name: M. R. Karim Title: SHFR											
Special Seismic Certification Valid Up to : $S_{DS}(g) = See Above$ $z/h = See Above$											
Condition of Approval (if applicable): Certification is limited to units which are identical to the configured tested units.											
Condition of Approval (ii applicable).											

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX





	Falcon Electric, Inc. SG			TAB	ABLE 1				
	nstruction Summary	:							
Certified Options Su No certified options o	rmmary: or accessories. Single c	onfiguration	only.						
Mounting Configura Base mounted - rigid Note: Installed mounting c	tion: onfiguration must be of sim	ilar configuratio	n and equiva	ılent strength	n and stiffnes	s to those tested.			
Building Code: CBC 2016		Seismic C			$S_{DS} = 2.0$ $z/h=1.0$ $I_P = 1.5$ $S_{DS} = 3.2$ $z/h=0.0$				
Carbon steel enclos Certified Options No certified options Mounting Configur Base mounted - rigi Note: Installed mounting	Model		Dimensions (in		Weight	Notes	UUT		
		Depth	Width	Height	(lb)				
SG	SG2K-1TG	17.9	7.6	12.7	70		1,2		

UNIT UNDER TEST (UUT) SUMMARY SHFFT

TRU PROJECT NO. 15048



UUT 1

Manufacturer: Falcon Electric, Inc.

Model Line: SG

Model Number: SG2K-1TG Serial Number: 1506009012

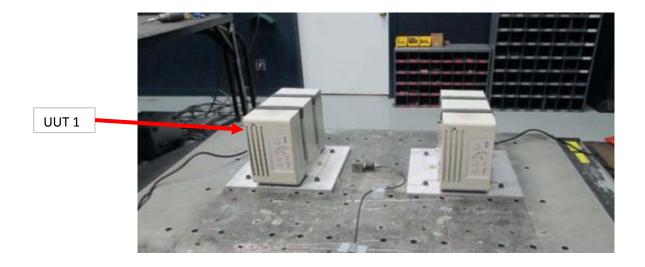
Product Construction Summary:

Carbon steel enclosure.

Options/Subcomponent Summary:
No certified options or accessories.

UUT Properties											
Weight		Dimension (in)	Lowest Natural Frequency (Hz)								
(lb)	Depth	Width	Height		Front-Back		Side-Side		Vertical		
70	17.9	7.6	2.7	>33.3		30.7		>33.3			
UUT Highest Passed Seismic Run Information											
Building Code		Test Criteria		S_{DS}	z/h	Ι _Ρ	A_{FLX-H}	A_{RIG-H}	A _{FLX-V}	A_{RIG-V}	
CBC 2016		ICC-ES AC156		2.0	1.0	1.5	3.20	2.40	1.53	0.53	
				3.2	0.0	1.5	3.20	1.28	2.13	0.85	

Test Mounting Details:



Rigid base mounted to shake table with Falcon Seismic Kit Version #2 and (2) 1/2" grade 8 bolts. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHFFT

TRU PROJECT NO. 15048



UUT 2

Manufacturer: Falcon Electric, Inc.

Model Line: SG

Model Number: SG2K-1TG Serial Number: 1412038026

Product Construction Summary:

Carbon steel enclosure.

Options/Subcomponent Summary:

No certified options or accessories.

UUT Properties												
Weight	Dimension (in)				Lowest Natural Frequency (Hz)							
(lb) Depth Width		Не	ight	Front-Back		Side-Side		Vertical				
70	17.9	7.6	12.7		>33.3		33.3		>33.3			
	UUT Highest Passed Seismic Run Information											
Building Code		Test Criteria		S_{DS}	z/h	Ι _P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}		
CBC 2016		ICC-ES AC156		2.0	1.0	1.5	3.20	2.40	1.53	0.53		
				3.2	0.0	1.5	3.20	1.28	2.13	0.85		

Test Mounting Details:



Rigid base mounted to shake table with Falcon Seismic Kit Version #2 and (2) 1/2" grade 8 bolts. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

