APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0492 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Fuji Electric

Manufacturer's Technical Representative: Gareth Davis

Mailing Address: 50 Northfield Avenue, Edison, NJ 08837

Telephone: 732.564.5145 Email: gdavis@fecoa.fujielectric.com

Product Information

Product Name: UPS7300WX-T3U

Product Type: Uninterruptible Power Supply

Product Model Number: UPS7300WX-T3U/ 225kVA, 300kVA, 333kVA
(List all unique product identification numbers and/or part numbers)

General Description: 225kVA – 333kVA UPS

Mounting Description: Rigid base mounted.

Applicant Information

Applicant Company Name: TRU Compliance LLC

Contact Person: Derek J. Manwill, S.E.

Mailing Address: 960 SW Disk Dr., Suite 104, Bend, OR 97702

Telephone: 844.878.0200 Email: dmanwill@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: 12/1/2016

Title: Vice President Company Name: TRU Compliance LLC

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: TRU Compliance LLC

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

☒ Testing in accordance with: ☒ ICC-ES AC156

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: Environmental Testing Laboratory (ETL)

Contact Name: Paul E. Little

Mailing Address: 11034 Indian Trail, Dallas, TX 75229

Telephone: 972.247.9657 Email: paul@etldallas.com

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = 1.5 (S_{DS} = 2.0g); 1.44 (S_{DS} = 3.2g)

S_{DS} (Design spectral response acceleration at short period, g) = 2.0 (z/h = 1.0); 3.2 (z/h = 0.0)

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0 (S_{DS} = 2.0g); 0.0 (S_{DS} = 3.2g)

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 A

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: 12/2/2016

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):

SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 16044

Manufacturer:	Fuji Electric
Model Line:	UPS7300WX-T3U

TABLE 1

Certified Product Construction Summary:

Carbon steel cabinet, carbon steel frame, carbon steel base channel.

Certified Options Summary:

None. Subcomponents are identical between models and uniquely identified by model number. All models are identical other than software.

Mounting Configuration:

Base mounted - rigid

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2016 *Seismic Certification Limits:* S_{DS} = 2.0 g z/h=1.0; S_{DS} = 3.2 g z/h=0.0 I_P = 1.5

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
USP730WX-T3U	225 kVA	31.5	59.1	78.7	2450	Identical to 333 - software	
	300 kVA	31.5	59.1	78.7	2450	Identical to 333 - software	
	333 kVA	31.5	59.1	78.7	2450		1

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 16044

Manufacturer:	Fuji Electric		UUT 1
Model Line:	UPS7300WX-T3U		
Model Number:	UPS7300WX-T3U/333kVA	*Serial Number:* N/A	

Product Construction Summary:

Carbon steel cabinet, carbon steel frame, carbon steel base channel.

Options/Subcomponent Summary:

Single subcomponent configuration (all subcomponents are uniquely identified by model number).

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2450	31.5	59.1	78.7	7.7	6.7	25.0

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS} (g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4		
		3.2	0.0	1.5			2.13	0.85

Test Mounting Details:

Rigid base mounted with (10) 3/4" Grade 8 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.