



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: **OSP – 0466 – 10**

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: On Power Inc

Manufacturer's Technical Representative: Ian Crane

Mailing Address: 865 N.E. Tomahawk Island Drive #571, Portland, OR 97217

Telephone: ON FILE Email: ON FILE

Product Information

Product Name: 25 kVA Universal Transfer Switch 2nd generation (UTS II)

Product Type: Transfer Switch

Product Model Number: See Attachment 1

(List all unique product identification numbers and/or part numbers)

General Description: The provision of transferring equipment from one power source to another during power outages.

Seismic enhancements incorporated into the test units shall be incorporated into the certified units.

Mounting Description: See Attachment 1, Table 1.

Applicant Information

Applicant Company Name: EASE LLC

Contact Person: JONATHAN ROBERSON, S.E.

Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709

Telephone: (406) 541-EASE (3273) Email: j.roberson@easeco.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: May 24, 2016

Title: Principal Engineer Company Name: EASE LLC

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





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

Company Name: EASE LLC
Name: Jonathan Roberson, S.E. California License Number: S4197
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709
Telephone: (909) 606-7622 Email: j.roberson@easeco.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, Inc.
Contact Name: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513
Telephone: (972) 247-9657 Email: brady@etldallas.com





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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 ($S_{DS} = 2.00$ & $z/h = 1$); 1.125 ($S_{DS} = 2.50$ & $z/h = 0$)

S_{DS} (Design spectral response acceleration at short period, g) = 2.00 ($z/h = 1$); 2.50 ($z/h = 0$)

a_p (In-structure equipment or component amplification factor) = 1

R_p (Equipment or component response modification factor) = 2.5

Ω_0 (System overstrength factor) = 2

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 0 ($S_{DS} = 2.50$) & 1 ($S_{DS} = 2.00$)

Equipment or Component Natural Frequencies (Hz) = N/A

Overall dimensions and weight (or range thereof) = 24" W x 13" D x 36" H; Weight = 144 lb

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) = _____

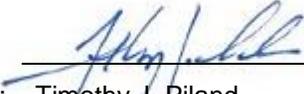
Tank(s) designed in accordance with ASME BPVC, 2015: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Attachments 1 & 2

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

Signature:  Date: June 10, 2016

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to : S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): Approval is limited to units identical to tested unit.



ATTACHMENT 1: TEST SPECIMEN SUMMARY

UUT- 1 25 kVA Universal Transfer Switch (1st Specimen)									
MANUFACTURER: On Power Inc.									
IDENTIFICATION: Model No.: TP-UTS-8.2.1-R1									
Equipment tested in configuration that will be labeled as TP-UTS-8.2.1-R1-OSP moving forward									
Serial No.: A63937399									
DESCRIPTION:									
MOUNTING: Wall mounted using (4) – 3/8" dia GR 8 bolts with (2) – washers at top and (2) – 1.5" x 1.75" x 1/8" plate washers at bottom									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Side-Axis	Front-Axis	Vertical-Axis		
24	13	36	144		---	---	---		
SHAKE TABLE TEST PARAMETERS									
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 2.5	1.0 0	1.5	3.20 2.50	2.40 1.00	1.34 1.68	0.54 0.68	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

UUT- 2 25 kVA Universal Transfer Switch (2nd Specimen)									
MANUFACTURER: On Power Inc.									
IDENTIFICATION: Model No.: TP-UTS-8.2.1RR1									
Equipment tested in configuration that will be labeled as TP-UTS-8.2.1-R1-OSP moving forward									
Serial No.: 63937400									
DESCRIPTION:									
MOUNTING: Wall mounted using (4) – 3/8" dia GR 8 bolts with (2) – washers at top and (2) – 1.5" x 1.75" x 1/8" plate washer at bottom.									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Side-Axis	Front-Axis	Vertical-Axis		
24	13	36	144		---	---	---		
SHAKE TABLE TEST PARAMETERS									
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 2.5	1.0 0	1.5	3.20 2.50	2.40 1.00	1.34 1.68	0.54 0.68	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									