



**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 2<sup>nd</sup> generation (UTS II) & FA63100 Power Filter

Product Type: Transfer Switch & Power Filter

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: Rigid Wall Mount

**Applicant Information**

Applicant Company Name: EASE LLC

Contact Person: JONATHAN ROBERSON, S.E.

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

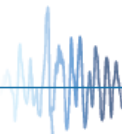
Telephone: (406) 541-EASE (3273) Email: [j.roberson@easeco.com](mailto:j.roberson@easeco.com)

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: August 12, 2017

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](mailto: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): \_\_\_\_\_

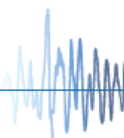
**Testing Laboratory**

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](mailto: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 ( $F_p/W_p$ ) = SEE ATTACHMENT 1

$S_{DS}$  (Design spectral response acceleration at short period, g) = SEE ATTACHMENT 1

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

$R_p$  (Equipment or component response modification factor) = 2.5

$\Omega_0$  (System overstrength factor) = 2

$I_p$  (Importance factor) = 1.5

$z/h$  (Height factor ratio) = SEE ATTACHMENT 1

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

Overall dimensions and weight (or range thereof) = SEE ATTACHMENT 2

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) = \_\_\_\_\_

$\Omega_0$  (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

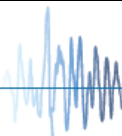
**OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022**

Signature:  Date: September 13, 2017

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.




**TABLE 1: ASCE 7-10 DESIGN BASIS FOR EQUIPMENT**

COMPONENT	Identification No.	$F_p/W_p$	$S_{DS}$	$z/h$	$a_p$	$R_p$	$\Omega_0$
25 kVA Universal Transfer Switch	TP-UTS-8.2.1-R1	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Powervar FA63100 Power filter	026-077-50	1.80	2.5	1	1	2 ½	2


**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

<b>UUT1404- 1 25 kVA Universal Transfer Switch</b>									
<b>MANUFACTURER:</b> On Power Inc.									
<b>IDENTIFICATION:</b> 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									
<b>DESCRIPTION:</b>									
<b>MOUNTING:</b> 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									
<b>PROPERTIES:</b>									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Side-Axis	Front-Axis	Vertical-Axis		
24	13	36	144		---	---	---		
<b>SHAKE TABLE TEST PARAMETERS</b>									
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (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									

<b>UUT1404- 2 25 kVA Universal Transfer Switch</b>									
<b>MANUFACTURER:</b> On Power Inc.									
<b>IDENTIFICATION:</b> 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									
<b>DESCRIPTION:</b>									
<b>MOUNTING:</b> 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.									
<b>PROPERTIES:</b>									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Side-Axis	Front-Axis	Vertical-Axis		
24	13	36	144		---	---	---		
<b>SHAKE TABLE TEST PARAMETERS</b>									
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (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									

**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

ATTACHMENT PAGE | 2 OF 2

<b>UUT1703-1 FA63100</b>						
<b>MANUFACTURER:</b> POWERVER						
<b>IDENTIFICATION:</b> Part No.: 026-077-50 Serial No.: 1352-0328						
<b>DESCRIPTION:</b> FA63100 Power filter Current load rating: 100 Amp Frequency: 50/60 Hz Enclosure: NEMA 12 Carbon Steel						
<b>MOUNTING:</b> Wall Mounted using (2) – 3/8" dia. SAE J429 Grade 8 bolts w/ 1.25" O.D. fender washers at top (2) – 3/8" dia. SAE J429 Grade 8 bolts + (2) – 1/4" dia HWH TEK Screws at bottom & 1.5" x 2" x 1/8" plate washers to 16ga steel backing plate. All connections through 5/8" gypsum wall board to 16ga steel backing plate w/ nuts & washers at rear.						
<b>DIMENSIONS (in.)</b>				<b>LOWEST RESONANT FREQUENCY (Hz.)</b>		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
24	12	30	198	---	---	---
<b>ICC-ES AC156 TEST PARAMETERS</b>						<b>CODE: 2016 CBC</b>
S <sub>DS</sub> (G)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)
2.5	1	1.5	4.00	3.00	1.68	0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.						