



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP - 0426 - 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Active Power USA

Manufacturer's Technical Representative: Jim Andrews

Mailing Address: 2128 W. Braker Ln BK 12, Austin, TX 78758

Telephone: On File Email: On File

Product Information

Product Name: CleanSource 750HD UPS

Product Type: UPS

Product Model Number: CSHD750

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

General Description: 750 kVA 3-wire, single input flywheel UPS Seismic enhancements made to the test units and modifications required to address the anomalies observed during the tests shall be incorporated into the production units

Mounting Description: Rigid base mounted

Applicant Information

Applicant Company Name: EASE Co.

Contact Person: JONATHAN ROBERSON, S.E

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

Telephone: (909) 606-7622 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, 2013.

Signature of Applicant:  Date: 2/19/2015

Title: Principal Engineer Company Name: EASE LLC

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

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 10/21/14)



OSHPD

Page 1 of 3



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

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

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 10/21/14)



OSHPD

Page 2 of 3



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: [X] Yes [] No

Design Basis of Equipment or Components (Fp/Wp) = 1.44 for SDS = 2.0 @ z/h=1 / 1.17 for SDS = 2.6 @ z/h=0

SDS (Design spectral response acceleration at short period, g) = 2.0 @ z/h=1 & 2.6 @ z/h=0

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

Rp (Equipment or component response modification factor) = 2 1/2

Omega_0 (System overstrength factor) = 2 1/2

Ip (Importance factor) = 1.5

z/h (Height factor ratio) = 1 & 0

Equipment or Component Natural Frequencies (Hz) = See attachment 1

Overall dimensions and weight (or range thereof) = 132" W x 39" D x 80" H / 11,785 lb.

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: [] Yes [X] No

Design Basis of Equipment or Components (V/W) =

SDS (Design spectral response acceleration at short period, g) =

SD1 (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Omega_0 (System overstrength factor) =

Cd (Deflection amplification factor) =

Ip (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, 2010: [] Yes [X] No

List of Attachments Supporting Special Seismic Certification

[X] Test Report(s) [] Drawings [] Calculations [X] Manufacturer's Catalog

[X] Other(s) (Please Specify): ATTACHMENT 1

OSHPD Approval (For Office Use Only) - Approval Expires on December 31, 2019

Signature: [Handwritten Signature] Date: March 24, 2015

Print Name: M. R. Karim Title: SHRF

Special Seismic Certification Valid Up to : SDS (g) = See Above z/h = See Above

Condition of Approval (if applicable):



ATTACHMENT 1: TEST SPECIMEN SUMMARY

UUT1		CleanSource 750HD 3W (3-wire), Single Input UPS without EXRC Cabinet						
MANUFACTURER:		Active Power						
IDENTIFICATION:		Model No.: CSHD750						
		Serial No.: AP01464						
DESCRIPTION:		Uninterruptible Power Supply (UPS) 750 kVA UPS 3-wire, single input w/o EXRC Cabinet						
MOUNTING:		Floor mounted using(20) – 5/8" dia GR 8 bolts						
PROPERTIES:		DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
		WIDTH	DEPTH	HEIGHT		F/B	S/S	Vert
		132	39	80		11785	5.8	6.6
SHAKE TABLE TEST PARAMETERS		Unit maintained structural integrity and functionality after the ICC-ES AC 156 test						
BUILDING CODE	TEST CRITERIA	S _{DS}	z/h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2013	ICC-ES AC156	2.0 2.6	1 0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70